

Management Status Report  
Produced from NTP Chemtrack System  
Public Distribution

Chemicals studied by the National Toxicology Program are selected mainly on the basis of human exposure, production levels, chemical structure, and available toxicologic data. Selection of a chemical for a study does not imply that the chemical is hazardous or a potential carcinogen in laboratory animals; likewise, a chemical not selected for toxicologic study by the Program should not be taken to mean that the chemical is not potentially hazardous or potentially carcinogenic in laboratory rodents. Compounds are listed by a common or generic name; if this is not available, the chemical name is used. For additional information, send requests to: Central Data Management (CDM) (TELEPHONE: 919-541-3419; FAX: (301) 480-3210; Mail Drop K2-05, NIEHS, P. O. BOX 12233, Research Triangle Park, NC USA 27709; EMAIL: CDM@NIEHS.NIH.GOV) .

The abstracts for all published long-term NTP technical reports are available in Volume 101, Supplement 1 of ENVIRONMENTAL HEALTH PERSPECTIVES (EHP) (1993). Abstracts as well as full versions of NTP toxicology and carcinogenesis studies and short-term toxicity studies are available in electronic format on the National Toxicology Program World Wide Web (WWW) site. Viewing this information requires access to the Internet and a software client such as Netscape or Internet Explorer. The World Wide Web server is located at NIEHS; the link to access the NTP World Wide Web Homepage is <https://ntp.niehs.nih.gov/>. The link to NTP testing information and study results, including abstracts, is [/go/test](#)

Printed copies of many Technical Reports on NTP toxicology and carcinogenesis studies and short-term toxicity studies are available from Central Data Management (CDM) (TELEPHONE: 919-541-3419; FAX: (301) 480-3210; Mail Drop K2-05, NIEHS, P. O. BOX 12233, Research Triangle Park, NC USA 27709; EMAIL: CDM@NIEHS.NIH.GOV) .

If you have further questions about electronic access or to request a copy of EHP, VOL. 101, contact Central Data Management (CDM) (TELEPHONE: 919-541-3419; FAX: (301) 480-3210; Mail Drop K2-05, NIEHS, P. O. BOX 12233, Research Triangle Park, NC USA 27709; EMAIL: CDM@NIEHS.NIH.GOV) .

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Long-term studies = more than 1 year

Short-term studies = 1 year or less

Abbreviations used in this report:

| <b>CODE</b>   | <b>Route of Administration</b> | <b>CODE</b> | <b>Route of Administration</b>    |
|---------------|--------------------------------|-------------|-----------------------------------|
| AQUAT         | Aquatic                        | IV          | Intravenous                       |
| CAPS          | Per os (Capsule)               | IVAG        | Intravaginal                      |
| DERMAL        | Dermal                         | IVOR        | IV Injection and Oral             |
| FEED          | Dosed-Feed                     | MICRO       | Microencapsulation in Feed        |
| GAV           | Gavage                         | MULTI       | Multiple Routes                   |
| GAV/<br>WATER | Gavage & Dosed-Water           | N/A         | Not Applicable                    |
| GV/WB         | Gavage, Whole Body Exposure    | OTHER       | Other                             |
| IC/IJ         | IC Injection                   | SC&GV       | Subcutaneous Injection and Gavage |
| ID/CN         | Intraductal Cannulation        | SC/IJ       | Subcutaneous Injection            |
| IM            | Intramuscular                  | SP          | Topical Application               |
| INHAL         | Inhalation                     | UD          | Not Currently Entered             |
| IP/IJ         | Intraperitoneal Injection      | UTERO       | In Utero                          |
| IP/OT         | IP Inj/Orotracheal             | WATER       | Dosed-Water                       |
| IT            | Intratracheal                  | WB          | Whole Body Exposure               |

Note: Dermal, skin application and skin paint are synonymous. Different terms were used at different times.

| <b>CODE</b> | <b>Primary Use Category</b>   | <b>CODE</b> | <b>Primary Use Category</b>   |
|-------------|---|-------------|---|
| ADHS        | Adhesives, Glues, and Tape  | METL        | Metals or Metal Products  |
| CMOT        | Chemotherapeutic Agents   | MINL        | Minerals and Natural Fibers   |
| COMT        | Contaminates and/or Impurities  | MLTR        | Military or Policing Purposes   |
| COSM        | Cosmetics, Perfumes, Fragrances, Hair Preparations, Skin Lotions          | N/S         | Naturally Occurring and Synthetic Substances                                    |
| DIET        | Dietary/Herbal Supplement   | NANO        | Nanoscale materials (substances where at least one critical dimension < 100 nm) |
| DTRG        | Detergents and Cleansers  | NATL        | Naturally Occurring Substances  |
| DYE         | Dyes, Inks, and Pigments  | NSUL        | Insulation or Insulation Products   |
| ELEC        | Electrical and/or Dielectric Systems or Products                          | OCCH        | Occupational Hazards  |
| ENVH        | Environmental (Air/Water) Pollutants                                      | PAPR        | Paper or Paper Products   |
| FDPK        | Food-packaging Products   | PEST        | Pesticides  |
| FEED        | Animal Feed or Feed Products  | PHAR        | Pharmaceuticals or Intermediates  |
| FERT        | Fertilizers   | PHOT        | Photography or Related Purposes   |
| FLAM        | Flame Retardants  | PLAS        | Plastics  |
| FOOD        | Food, Beverages, or Additives   | PNT         | Paint Ingredient  |
| FUEL        | Fuel or Oil Products  | REAG        | Laboratory Reagent  |
| FUME        | Fumigants   | RUBR        | Rubber Chemical   |
| FUNG        | Fungicides  | SOLV        | Vehicles and Solvents   |
| GERM        | Germicides, Disinfectants, Antiseptics                                    | SYN         | Synthetic   |
| GLAS        | Glass, Ceramic and/or Pottery Products                                    | TBCO        | Tobacco and Tobacco Products  |
| HERB        | Herbicides  | TEXL        | Manufacture of Textiles   |
| IND         | Industrial Uses   | WATR        | Water and/or Sewage Treatment   |
| INTR        | Chemical Intermediate or Catalyst   | WOOD        | Wood Industry   |
| LABC        | Unspecified Chemical Uses Not Fitting Into SOLV, INTR, or REAG Categories |             |   |
| <b>CODE</b> | <b>Species: Strain</b>  | <b>CODE</b> | <b>Species: Strain</b>  |
| C           | Chicks  | H           | Hamsters  |
| D           | Dog   | M           | Mice  |
| DL          | Drosophila  | MO          | Monkey  |
| F           | Fish  | R           | Rats  |
| FR          | Frog  | RA          | Rabbit  |
| GP          | Guinea Pigs   | RM          | Rats/Mice   |
| NA          | Chicks:Not Available  | * ML        | Mice:Tg.Lac1/C57BL/6 (Big Blue)   |
| NA          | Dog:Not Available   | MM          | Mice:BALB/cByJ  |
| O3          | Dog:Beagles   | * MN        | Mice:Tg.AC (FVB/N) Homozygous   |
| NA          | Drosophila:Not Available  | MO          | Mice:CB6F1  |
| F1          | Fish:Medaka (Oryzias latipes)   | * MP        | Mice:C57BL/6-APC+/APC-1638N (Tg:APC)  |

| CODE                     | Species: Strain   | CODE     | Species: Strain   |
|--------------------------|---|----------|---|
| F2                       | Fish:Guppy (Poecilia reticulata)  | * MQ     | Mice:P16(Ink4a)/(+/-) (C57BL/6)   |
| F3                       | Fish:Zebra (Danio rerio)  | MR       | Mice:129S1/SvImJ  |
| NA                       | Fish:Not Available  | * MS     | Mice:P53 +/- (FVB/N)  |
| NA                       | Frog:Not Available  | MT       | Mice:SKH-1 Hairless   |
| NA                       | Guinea Pigs:Not Available   | * MU     | Mice:TRAMP (C57BL/6 PB-TAG TRANSGENE)   |
| O6                       | Guinea Pigs:Hartley   | MV       | Mice:B6C3F1/NCTR BR (C57BL/6N x C3H/HEN MTV-)   |
| H1                       | Hamsters:Syrian Golden  | MW       | Mice:BALB/c   |
| NA                       | Hamsters:Not Available  | * MX     | Mice:AM3 (C57BL/6)  |
| 129B6TRP53               | Mice:Female 129S1.SvlmJ crossed to B6.129-<br>Trp53<tmlBrd> males homozygous for the Trp53 null<br>allele | MY       | Mice:CD-1 Reg.[Cr1:CD1(ICR)]  |
| 60                       | Mice:NOD. B10Sn-H2(b)/J   | MZ       | Mice:C57BL/6J (Jackson)   |
| 61                       | Mice:NZO/HiLtJ  | NA       | Mice:Not Available  |
| 62                       | Mice:PWK/PhJ  | RB6TRP53 | Mice:Female BTBR.Tj (R) crossed to B6.129-<br>Trp53<tmlBrd> males homozygous for the Trp53 null<br>allele |
| 63                       | Mice:B6C3F1/J (Jackson)   | NA       | Monkey:Not Available  |
| AB6TRP53                 | Mice:Female A/J crossed to B6.129-Trp53<tmlBrd> males<br>homozygous for the Trp53 null allele             | RH       | Monkey:Rhesus   |
| B6129                    | Mice:B6.129-Trp53<TM1BRD>   | 44       | Rats:Sprague Dawley (NCTR)  |
| C3B6                     | Mice:C3B6.129F1-Trp53<TM1BRD>   | 48       | Rats:Cr1:CD (SD)  |
| C3B6TRP53                | Mice:Female C3H/HeJ crossed to B6.129- Trp53<tmlBrd><br>males homozygous for the Trp53 null allele        | F344     | Rats:Fischer 344  |
| C6N                      | Mice:C57BL/6N   | FSAS     | Rats:F344/NCr1 (SAS FISCH)  |
| CB6TRP53                 | Mice:Female Balb/c (C) crossed to B6.129-<br>Trp53<tmlBrd> males homozygous for the Trp53 null<br>allele  | HSD      | Rats:Harlan Sprague-Dawley  |
| D2B6TRP53                | Mice:Female DBA/2J (D2) crossed to B6.129-<br>Trp53<tmlBrd> males homozygous for the Trp53 null<br>allele | HSDD     | Rats:Harlan Sprague Dawley (Dublin Facility)  |
| DOJ                      | Mice:Diversity Outbred (Jackson)  | HSDE     | Rats:Hsd:Sprague Dawley SD  |
| M0                       | Mice:SKH-1 Hairless (NCTR)  | HSDI     | Rats:Harlan Sprague Dawley (Indianapolis Facility)  |
| M1                       | Mice:C57BL/6  | * ML     | Rats:Tg.Lac1/C57BL/6 (Big Blue)   |
| M11                      | Mice:CAST/EiJ (M. m. castaneus)   | NA       | Rats:Not Available  |
| M14                      | Mice:WSB/EiJ (M. m. domesticus)   | R1       | Rats:Osborne Mendel   |
| M15                      | Mice:C3H/HeJ  | R10      | Rats:F344/N Charles River   |
| M2                       | Mice:C3H  | R2       | Rats:F344/N   |
| M22                      | Mice:B6C3F1/N   | R3       | Rats:ACI  |
| M3                       | Mice:B6C3F1   | R4       | Rats:August   |
| M4                       | Mice:Swiss  | R5       | Rats:Long-Evans   |
| M5                       | Mice:Swiss CD-1   | R6       | Rats:Marshall   |
| M6                       | Mice:Swiss Webster  | R7       | Rats:Sherman  |
| M7                       | Mice:Sencar   | R8       | Rats:Sprague Dawley   |
| * M8                     | Mice:MMTV/RAS (Tg.SH)   | R9       | Rats:Wistar   |
| * M9                     | Mice:MMTV/MYC (Tg.M)  | RA       | Rats:CD   |
| * MA                     | Mice:MMTV/NEU (Tg.Nk)   | RB       | Rats:NCI Black Reiter (NBR)   |
| MB                       | Mice:NIH Swiss  | RC       | Rats:F344 (NCTR)  |
| * MC                     | Mice:PIM  | RD       | Rats:F344/NTac  |
| MCBA                     | Mice:CBA/ Ca Jackson  | RE       | Rats:Wistar Han   |
| * MD                     | Mice:P53 +/- (C57BL/6)  | ZL       | Rats:Zucker - Lean (HsdHlr:ZUCKER-Lepr+)  |
| * ME                     | Mice:Tg.AC (FVB/N) Hemizygous   | ZLC      | Rats:Zucker - Lean (Charles River)  |
| MF                       | Mice:A/J  | ZO       | Rats:Zucker - Obese (HsdHlr:ZUCKER-Leprfa)  |
| MG                       | Mice:B6.SJL-Ptprc[a] Pepc[b]/BoyJ   | ZOC      | Rats:Zucker - Obese (Charles River)   |
| * MH                     | Mice:Tg/RASH2/CB6F1   | NA       | Rabbit:Not Available  |
| MI                       | Mice:FVB/N  | NA       | Rats/Mice:Not Available   |
| * MJ                     | Mice:C3B6F1-+/TRP53<TM1BRD> (NCTR)  | R2       | Rats/Mice:F344/N  |
| * MK                     | Mice:CB6F1-Tg(HRAS)2Jic [(BALB/cByJTac x C57BL/6JTac)-<br>Tg(HRAS)2Jic F1                                 |          |   |
| * Transgenic Mouse Model |   |          |   |

## CAR Carcinogenicity:

The National Toxicology Program describes the results of individual experiments on a chemical agent and notes the strength of evidence for conclusions regarding each study. Negative results, in which the study animals do not have a greater incidence of neoplasia than control animals, do not necessarily mean that a chemical is not a carcinogen, inasmuch as the experiments are conducted under a limited set of conditions. Positive results demonstrate that a chemical is carcinogenic for laboratory animals under the conditions of the study and indicate that exposure to the chemical has the potential for hazard to humans. Five categories of evidence of carcinogenic activity are used in the Technical Report series to summarize the strength of the evidence observed in each experiment: two categories for positive results ("Clear Evidence" and "Some Evidence"); one category for uncertain findings ("Equivocal Evidence"); one category for no observable effects ("No Evidence"); and one category for experiments that because of major flaws cannot be evaluated ("Inadequate Study"). These categories of interpretative conclusions were first adopted in June 1983 and then revised in March 1986 for use in the Technical Reports series to incorporate more specifically the concept of actual weight of evidence of carcinogenic activity. For each separate experiment (male rats, female rats, male mice, female mice), one of the following quintet is selected to describe the findings. The categories refer to the strength of the experimental evidence and not to either potency or mechanism.

- CE Clear Evidence of Carcinogenic Activity is demonstrated by studies that are interpreted as showing a dose-related (i) increase of malignant neoplasms, (ii) increase of a combination of malignant and benign neoplasms, or (iii) marked increase of benign neoplasms if there is an indication from this or other studies of the ability of such tumors to progress to malignancy.
- SE Some Evidence of Carcinogenic Activity is demonstrated by studies that are interpreted as showing a chemically related increased incidence of neoplasms (malignant, benign, or combined) in which the strength of the response is less than that required for clear evidence.
- EE Equivocal Evidence of Carcinogenic Activity is demonstrated by studies that are interpreted as showing a marginal increase of neoplasms that may be chemically related.
- NE No Evidence of Carcinogenic Activity is demonstrated by studies that are interpreted as showing no chemically related increases in malignant or benign neoplasms.
- IS Inadequate Study of Carcinogenic Activity is demonstrated by studies that because of major qualitative or quantitative limitations cannot be interpreted as valid for showing either the presence or absence of carcinogenic activity.

When a conclusion statement for a particular experiment is selected, consideration must be given to key factors that would extend the actual boundary of an individual category of evidence. This should allow for incorporation of scientific experience and current understanding of long-term carcinogenesis studies in laboratory animals, especially for those evaluations that may be on the borderline between two adjacent levels. These considerations should include:

- The adequacy of the experimental design and conduct;
- Occurrence of common versus uncommon neoplasia;
- Progression (or lack thereof) from benign to malignant neoplasia as well as from preneoplastic to neoplastic lesions;
- Some benign neoplasms have the capacity to regress but others (of the same morphologic type) progress. At present, it is impossible to identify the difference. Therefore, where progression is known to be a possibility, the most prudent course is to assume that benign neoplasms of those types have the potential to become malignant;
- Combining benign and malignant tumor incidences known or thought to represent stages of progression in the same organ or tissue;
- Latency in tumor induction;
- Multiplicity in site-specific neoplasia;
- Metastases;
- Supporting information from proliferative lesions (hyperplasia) in the same site of neoplasia or in other experiments (same lesion in another sex or species);
- The presence or absence of dose relationships;
- The statistical significance of the observed tumor increase;
- The concurrent control tumor incidence as well as the historical control rate and variability for a specific neoplasm;
- Survival-adjusted analyses and false positive or false negative concerns;
- Structure-activity correlations; and
- In some cases, genetic toxicology.

Earlier designations include:

P Positive E Equivocal N Negative I Inadequate



| Alphabetical Index of Chemicals with Reference Location  |              |      |     | Alphabetical Index of Chemicals with Reference Location      |              |      |     |
|--|--------------|------|-----|--|--------------|------|-----|
| CHEMICAL NAME  | CASRN        | PAGE | REF | CHEMICAL NAME  | CASRN        | PAGE | REF |
|  |              |      |     | Air-Lung Interface Model                                     | AIRLUNGINT   | 32   | 4   |
| Abrasive Blasting Agents:<br>Blasting Sand   | BLASTINGSAND | 34   | 14  | @ Aizen Malachite Green<br>(Listed As: Malachite green)      | 569-64-2     | 44   | 16  |
| Abrasive blasting agents (coal<br>slag)  | COALSLAG     | 50   | *   | @ Aizen Malachite Green<br>(Listed As: Malachite green)      | 569-64-2     | 38   | 16  |
| Abrasive blasting agents (crushed<br>glass)  | CRUSHEDGLASS | 50   | *   | Aldicarb   | 116-06-3     | 39   | 16  |
| Abrasive blasting agents (garnet)  | GARNET       | 50   | *   | Aldrin   | 309-00-2     | 39   | 16  |
| Abrasive Blasting Agents:<br>Specular Hematite   | HEMATITESPEC | 34   | 14  | Allyl acetate  | 591-87-7     | 36   | 16  |
| @ Acesulfame Potassium Transgenic<br>Model Evaluation II<br>(Listed As: Transgenic Model<br>Evaluation II (Acesulfame<br>Potassium)) | 55589-62-3   | 35   | 16  | Allyl alcohol  | 107-18-6     | 36   | 16  |
| Acetaminophen<br>(4-hydroxyacetanilide)  | 103-90-2     | 32   | 2   | Allyl bromide  | 106-95-6     | 35   | 16  |
| Acetaminophen<br>(4-hydroxyacetanilide)  | 103-90-2     | 39   | 16  | Allyl bromide  | 106-95-6     | 50   | *   |
| Acetaminophen<br>(4-hydroxyacetanilide)  | 103-90-2     | 50   | *   | Allyl bromide  | 106-95-6     | 35   | 16  |
| Acetochlor   | 34256-82-1   | 50   | *   | Allyl chloride   | 107-05-1     | 39   | 16  |
| Acetohexamide  | 968-81-0     | 39   | 16  | Allyl glycidyl ether   | 106-92-3     | 39   | 16  |
| Acetoin  | 513-86-0     | 34   | 14  | Allyl isothiocyanate   | 57-06-7      | 39   | 16  |
| Acetone  | 67-64-1      | 36   | 16  | Allyl isovalerate  | 2835-39-4    | 39   | 16  |
| Acetonitrile   | 75-05-8      | 50   | *   | Aloe-emodin  | 481-72-1     | 39   | 16  |
| Acetonitrile   | 75-05-8      | 39   | 16  | Aloe phototoxicity studies                                   | ALOEPHOTOTOX | 39   | 16  |
| Acrolein   | 107-02-8     | 36   | 16  | Aloe vera charcoal filtered whole<br>leaf extract            | ALOEVFILTER  | 39   | 16  |
| Acronycine   | 7008-42-6    | 39   | 16  | Aloe vera gel  | 8001-97-6    | 39   | 16  |
| Acrylamide   | 79-06-1      | 32   | 5   | Aloe vera whole leaf extract<br>(native)                     | ALOEVLEAFEXT | 39   | 16  |
| Acrylamide   | 79-06-1      | 39   | 16  | Aloe vera whole leaf extract<br>(native)                     | ALOEVLEAFEXT | 39   | 16  |
| Acrylamide   | 79-06-1      | 50   | *   | Aloin  | 1415-73-2    | 50   | *   |
| @ Acryl Brilliant Green<br>(Listed As: Malachite green)  | 569-64-2     | 44   | 16  | alpha/beta Hydroxy acids<br>(glycolic acid, salicylic acid)  | HYDROXGLYSAL | 39   | 16  |
| @ Acryl Brilliant Green<br>(Listed As: Malachite green)  | 569-64-2     | 38   | 16  | alpha-Pinene   | 80-56-8      | 36   | 16  |
| Acrylonitrile  | 107-13-1     | 39   | 16  | alpha-Pinene   | 80-56-8      | 33   | 7   |
| Actinomycin D  | 50-76-0      | 49   | 17  | Alternaria alternata mold                                    | ALTERNARIA   | 32   | 3   |
| Adeno-associated viral vector<br>(hEPO)  | AAVIRVECEPO  | 50   | *   | Ametryn  | 834-12-8     | 50   | *   |
| Adenoviral vector (hGH)  | ADNVIRVECHGH | 50   | *   | 9-Aminoacridine hydrochloride                                | 134-50-9     | 51   | *   |
| Adenoviral Vector (AdhAQP1)  | ADNVIRVECAQP | 50   | *   | 9-Aminoacridine hydrochloride                                | 134-50-9     | 51   | *   |
| Aflatoxin B1 (TGMX)  | 1162-65-8    | 32   | 5   | 2-Aminoanthraquinone   | 117-79-3     | 39   | 16  |
| Agar   | 9002-18-0    | 39   | 16  | 5-Amino-o-cresol   | 2835-95-2    | 36   | 16  |
| Agaridine  | 2757-90-6    | 49   | 17  | 1-Amino-2,4-dibromoanthraquinone                             | 81-49-2      | 39   | 16  |
| Aging Cohort Study: 12951/SvlmJ<br>mouse   | MOUSEPHENO1  | 34   | 11  | 3-Amino-4-ethoxyacetanilide                                  | 17026-81-2   | 39   | 16  |
| Aging Cohort Study: B6C3F1J mouse  | MOUSEPHENO6  | 34   | 11  | 3-Amino-9-ethylcarbazole                                     | 132-32-1     | 49   | 17  |
| Aging Cohort Study: C3H/HeJ mouse  | MOUSEPHENO3  | 34   | 11  | 3-Amino-9-ethylcarbazole HCl                                 | 6109-97-3    | 39   | 16  |
| Aging Cohort Study: C57/BL/6J<br>mouse   | MOUSEPHENO4  | 34   | 11  | 1-Amino-2-methylanthraquinone                                | 82-28-0      | 39   | 16  |
| Aging Cohort Study: CAST/EiJ<br>mouse  | MOUSEPHENO5  | 34   | 11  | 2-Amino-4-nitrophenol  | 99-57-0      | 39   | 16  |
| Aging Cohort Study: NZO/HiLtJ<br>mouse   | MOUSEPHENO10 | 34   | 11  | 2-Amino-5-nitrophenol  | 121-88-0     | 39   | 16  |
| Aging Cohort Study: PWK/PhJ mouse  | MOUSEPHENO8  | 34   | 11  | 4-Amino-2-nitrophenol  | 119-34-6     | 39   | 16  |
| Aging Cohort Study: WSB/EIJ mouse  | MOUSEPHENO9  | 34   | 11  | 2-Amino-5-nitrothiazole                                      | 121-66-4     | 39   | 16  |
| Aging Cohort Study: A/J mouse  | MOUSEPHENO2  | 34   | 11  | 2-(4-Aminophenyl)-6-methyl-7-<br>benzothiazole sulfonic acid | 130-17-6     | 51   | *   |
| Aging Cohort Study: NOD.<br>B10Sn-H2(b)/J  | MOUSEPHENO7  | 34   | 11  | 3-Aminopyridine  | 462-08-8     | 51   | *   |
|  |              |      |     | 2-Aminopyridine  | 504-29-0     | 51   | *   |
|  |              |      |     | 4-Aminopyridine  | 504-24-5     | 51   | *   |
|  |              |      |     | Comparison study of<br>Aminopyridines/Troponin levels        | AMINOPYRCOMP | 51   | *   |
|  |              |      |     | 11-Aminoundecanoic acid                                      | 2432-99-7    | 39   | 16  |
|  |              |      |     | DL-amphetamine sulfate                                       | 60-13-9      | 39   | 16  |
|  |              |      |     | Ampicillin trihydrate  | 7177-48-2    | 39   | 16  |
|  |              |      |     | Amsacrine  | 51264-14-3   | 49   | 17  |

@ Denotes common names--see following line for correct name.

\* See Appendix, Short-Term Studies for Which Toxicity Technical Reports Were Not Prepared

| Alphabetical Index of Chemicals with Reference Location   |              |      |     | Alphabetical Index of Chemicals with Reference Location   |             |      |     |
|---|--------------|------|-----|---|-------------|------|-----|
| CHEMICAL NAME   | CASRN        | PAGE | REF | CHEMICAL NAME   | CASRN       | PAGE | REF |
| @ AN<br>(Listed As: Acrylonitrile)  | 107-13-1     | 39   | 16  | 5-Azacytidine   | 320-67-2    | 40   | 16  |
| Androstenedione   | 63-05-8      | 51   | *   | Azathioprine  | 446-86-6    | 49   | 17  |
| Androstenedione   | 63-05-8      | 51   | *   | 3'-Azido-3'-deoxythymidine (AIDS)   | 30516-87-1  | 40   | 16  |
| Androstenedione   | 63-05-8      | 40   | 16  | 3'-Azido-3'-deoxythymidine (AIDS)   | 30516-87-1  | 40   | 16  |
| Anilazine   | 101-05-3     | 40   | 16  | 3'-Azido-3'-deoxythymidine (AIDS)   | 30516-87-1  | 40   | 16  |
| @ Aniline Green<br>(Listed As: Malachite green)   | 569-64-2     | 44   | 16  | 3'-Azido-3'-deoxythymidine (AIDS)   | 30516-87-1  | 40   | 16  |
| @ Aniline Green<br>(Listed As: Malachite green)   | 569-64-2     | 38   | 16  | 3'-Azido-3'-deoxythymidine (AIDS)   | 30516-87-1  | 40   | 16  |
| Aniline hydrochloride   | 142-04-1     | 40   | 16  | 3'-Azido-3'-deoxythymidine (AIDS)   | 30516-87-1  | 40   | 16  |
| @ p-Anisidine hydrochloride<br>Transgenic model evaluation<br>(Listed As: Transgenic model<br>evaluation (p-Anisidine HCl)) | 20265-97-8   | 55   | *   | 3'-Azido-3'-deoxythymidine (AIDS)   | 30516-87-1  | 40   | 16  |
| o-Anisidine hydrochloride   | 134-29-2     | 40   | 16  | 3'-Azido-3'-deoxythymidine (AIDS)   | 30516-87-1  | 40   | 16  |
| p-Anisidine hydrochloride   | 20265-97-8   | 40   | 16  | 3'-Azido-3'-deoxythymidine and<br>2',3'-Dideoxycytidine   | AZTDDCCOMB  | 51   | *   |
| o-Anthranilic acid  | 118-92-3     | 40   | 16  | @ 3'-Azido-3'-deoxythymidine/2',3'-<br>Dideoxycytidine (AIDS initiative)<br>(Listed As: 3'-Azido-3'-<br>deoxythymidine and 2',3'-<br>Dideoxycytidine) | AZTDDCCOMB  | 51   | *   |
| Antraquinone  | 84-65-1      | 40   | 16  | 3'-Azido-3'-deoxythymidine<br>and 2',3'-Dideoxyinosine (AIDS<br>initiative)   | AZTDDICOMB  | 51   | *   |
| Antimony potassium tartrate   | 28300-74-5   |      | 16  | Azinphosmethyl  | 86-50-0     | 40   | 16  |
| Antimony Trioxide   | 1309-64-4    | 40   | 16  | Azobenzene  | 103-33-3    | 40   | 16  |
| Arsenic antioxidant mixture   | ANTIOXCOMBO2 | 51   | *   | Azodicarbonamide  | 123-77-3    | 51   | *   |
| Arsenic antioxidant mixture   | ANTIOXCOMBO2 | 51   | *   | AZT+3TC+NVP combination   | AZT3TCCOMBO | 40   | 16  |
| Antioxidant model (TRAMP) -<br>N-acetylcysteine   | 616-91-1     | 51   | *   | @ AZT (AIDS initiative)<br>(Listed As: 3'-Azido-3'-<br>deoxythymidine (AIDS))   | 30516-87-1  | 40   | 16  |
| Antioxidant model (TRAMP) -<br>Epigallocatechin gallate   | 989-51-5     | 51   | *   | @ AZT (AIDS initiative)<br>(Listed As: 3'-Azido-3'-<br>deoxythymidine (AIDS))   | 30516-87-1  | 40   | 16  |
| Antioxidant model (TRAMP) - NAO<br>(spinach extract)  | NAOSPINEXTR  | 51   | *   | @ AZT (AIDS initiative)<br>(Listed As: 3'-Azido-3'-<br>deoxythymidine (AIDS))   | 30516-87-1  | 40   | 16  |
| L-Arginine Glutamate  | 4320-30-3    | 49   | 17  | @ AZT (AIDS initiative)<br>(Listed As: 3'-Azido-3'-<br>deoxythymidine (AIDS))   | 30516-87-1  | 40   | 16  |
| Aroclor 1254  | 11097-69-1   | 40   | 16  | @ AZT (AIDS initiative)<br>(Listed As: 3'-Azido-3'-<br>deoxythymidine (AIDS))   | 30516-87-1  | 40   | 16  |
| @ Arotonoid (Retinoid project 6)<br>(Listed As: Retinoid project 6<br>(Arotonoid))  | 125533-88-2  | 54   | *   | @ AZT (AIDS initiative)<br>(Listed As: 3'-Azido-3'-<br>deoxythymidine (AIDS))   | 30516-87-1  | 40   | 16  |
| Arsine  | 7784-42-1    | 51   | *   | @ AZT (AIDS initiative)<br>(Listed As: 3'-Azido-3'-<br>deoxythymidine (AIDS))   | 30516-87-1  | 40   | 16  |
| Asbestos, amosite   | 12172-73-5   | 40   | 16  | @ AZT (AIDS initiative)<br>(Listed As: 3'-Azido-3'-<br>deoxythymidine (AIDS))   | 30516-87-1  | 40   | 16  |
| Asbestos, amosite   | 12172-73-5   | 40   | 16  | @ AZT (AIDS initiative)<br>(Listed As: 3'-Azido-3'-<br>deoxythymidine (AIDS))   | 30516-87-1  | 40   | 16  |
| Asbestos, amosite + Dimethyl<br>hydrazine   | 12172-73-5   | 40   | 16  | @ AZT (AIDS initiative)<br>(Listed As: 3'-Azido-3'-<br>deoxythymidine (AIDS))   | 30516-87-1  | 40   | 16  |
| Asbestos, chrysotile(IR)  | 12001-29-5   | 40   | 16  | @ AZT (AIDS initiative)<br>(Listed As: 3'-Azido-3'-<br>deoxythymidine (AIDS))   | 30516-87-1  | 40   | 16  |
| Asbestos, chrysotile(IR)  | 12001-29-5   | 40   | 16  | @ AZT (AIDS initiative)<br>(Listed As: 3'-Azido-3'-<br>deoxythymidine (AIDS))   | 30516-87-1  | 40   | 16  |
| Asbestos, chrysotile(IR)  | 12001-29-5   | 40   | 16  | @ AZT (AIDS initiative)<br>(Listed As: 3'-Azido-3'-<br>deoxythymidine (AIDS))   | 30516-87-1  | 40   | 16  |
| Asbestos, chrysotile(IR) +<br>Dimethyl hydrazine  | 12001-29-5   | 40   | 16  | @ AZT (AIDS initiative)<br>(Listed As: 3'-Azido-3'-<br>deoxythymidine (AIDS))   | 30516-87-1  | 40   | 16  |
| Asbestos, chrysotile(IR) +<br>Dimethyl hydrazine  | 12001-29-5   | 40   | 16  | @ AZT (AIDS initiative)<br>(Listed As: 3'-Azido-3'-<br>deoxythymidine (AIDS))   | 30516-87-1  | 40   | 16  |
| Asbestos, chrysotile(SR)  | 12001-29-5   | 40   | 16  | @ AZT (AIDS initiative)<br>(Listed As: 3'-Azido-3'-<br>deoxythymidine (AIDS))   | 30516-87-1  | 40   | 16  |
| Asbestos, chrysotile(SR)  | 12001-29-5   | 40   | 16  | @ AZT (AIDS initiative)<br>(Listed As: 3'-Azido-3'-<br>deoxythymidine (AIDS))   | 30516-87-1  | 40   | 16  |
| Asbestos, crocidolite   | 12001-28-4   | 40   | 16  | @ AZT (AIDS initiative)<br>(Listed As: 3'-Azido-3'-<br>deoxythymidine (AIDS))   | 30516-87-1  | 40   | 16  |
| L-Ascorbic acid   | 50-81-7      | 40   | 16  | @ AZT (AIDS initiative)<br>(Listed As: 3'-Azido-3'-<br>deoxythymidine (AIDS))   | 30516-87-1  | 40   | 16  |
| @ Aspartame (transgenic model<br>evaluation II)<br>(Listed As: Transgenic model<br>evaluation II (Aspartame))               | 22839-47-0   | 35   | 16  | @ AZT (AIDS initiative)<br>(Listed As: 3'-Azido-3'-<br>deoxythymidine (AIDS))   | 30516-87-1  | 40   | 16  |
| @ Aspartame (transgenic model<br>evaluation II)<br>(Listed As: Transgenic model<br>evaluation II (Aspartame))               | 22839-47-0   | 35   | 16  | @ AZT (AIDS initiative)<br>(Listed As: 3'-Azido-3'-<br>deoxythymidine (AIDS))   | 30516-87-1  | 40   | 16  |
| Aspergillus fumigatus mold  | ASPERGILLUS  | 33   | 6   |   |             |      |     |
| Aspirin, phenacetin, and caffeine   | 8003-03-0    | 40   | 16  |   |             |      |     |

@ Denotes common names--see following line for correct name.

\* See Appendix, Short-Term Studies for Which Toxicity Technical Reports Were Not Prepared

| Alphabetical Index of Chemicals with Reference Location  |              |      |     | Alphabetical Index of Chemicals with Reference Location   |              |      |     |
|--|--------------|------|-----|---|--------------|------|-----|
| CHEMICAL NAME  | CASRN        | PAGE | REF | CHEMICAL NAME   | CASRN        | PAGE | REF |
| @ AZT + DDI (AIDS initiative)<br>(Listed As: 3'-Azido-3'-<br>deoxythymidine and 2',3'-<br>Dideoxyinosine (AIDS<br>initiative)) | AZTDDICOMB   | 51   | *   | Benzyl acetate  | 140-11-4     | 40   | 16  |
| AZT/Drug Combinations<br>Transplacental/Neonatal Study   | AIDSDRUGSNEO | 51   | *   | Benzyl acetate  | 140-11-4     | 40   | 16  |
| AZT/Drug Combinations<br>Transplacental Carcinogenesis<br>Study  | AIDSTHERAPEU | 40   | 16  | Benzyl acetate + glycine<br>combination study   | GLYCINEBENZA | 51   | *   |
| AZT + Isoniazid (AIDS Initiative)  | AZTISONIAZID | 36   | 16  | Benzyl alcohol  | 100-51-6     | 40   | 16  |
| AZT + Methadone HCl (AIDS)   | AZTMETHCOMB  | 51   | *   | Benzyl chloride   | 100-44-7     | 49   | 17  |
| AZT + Nitazoxanide (AIDS<br>Initiative)  | AZT+NITAZOX  | 51   | *   | o-Benzyl-p-chlorophenol   | 120-32-1     | 36   | 16  |
| AZT + Pyrazinamide combination<br>(AIDS Initiative)  | AZTZINAMIDE  | 36   | 16  | o-Benzyl-p-chlorophenol   | 120-32-1     | 40   | 16  |
| AZT + Rifampin (AIDS Initiative)   | AZTRIFAMPIN  | 36   | 16  | o-Benzyl-p-chlorophenol   | 120-32-1     | 40   | 16  |
| AZT + TMP/SMX (mixture)<br>combination   | AZTTMPSMX    | 51   | *   | Benzyltrimethyl ammonium chloride   | 56-93-9      | 36   | 16  |
| AZT + TMP/SMX (mixture)<br>combination   | AZTTMPSMX    | 51   | *   | Benzyltrimethyl ammonium chloride   | 56-93-9      | 51   | *   |
| AZT transplacental carcinogenesis<br>study   | 30516-87-1   | 40   | 16  | Benzyltrimethyl ammonium chloride   | 56-93-9      | 36   | 16  |
| Barium chloride dihydrate  | 10326-27-9   | 36   | 16  | @ Binary mixture (Toxic equivalency<br>factor evaluation)<br>(Listed As: Toxic equivalency<br>factor evaluation (Binary<br>mixture; PCB 126/PCB 153)) | TEFBINARMIX  | 47   | 16  |
| Barium chloride dihydrate  | 10326-27-9   | 40   | 16  | 2-Biphenylamine hydrochloride   | 2185-92-4    | 40   | 16  |
| @ BCNU<br>(Listed As: 1,3-<br>bis(Chloroethyl)-1-<br>nitrosourea)  | 154-93-8     | 49   | 17  | 2,2-bis(Bromomethyl)-1,3-<br>propanediol  | 3296-90-0    | 51   | *   |
| Benzaldehyde   | 100-52-7     | 40   | 16  | 2,2-bis(Bromomethyl)-1,3-<br>propanediol  | 3296-90-0    | 36   | 16  |
| @ Benzaldehyde Green<br>(Listed As: Malachite green)   | 569-64-2     | 44   | 16  | 2,2-bis(Bromomethyl)-1,3-<br>propanediol  | 3296-90-0    | 40   | 16  |
| @ Benzaldehyde Green<br>(Listed As: Malachite green)   | 569-64-2     | 38   | 16  | 1,3-bis(Chloroethyl)-1-<br>nitrosourea  | 154-93-8     | 49   | 17  |
| Benzene  | 71-43-2      | 40   | 16  | bis(Chloromethyl) ether   | 542-88-1     | 49   | 17  |
| @ Benzene (Transgenic model<br>evaluation II)<br>(Listed As: Transgenic model<br>evaluation II (Benzene))                      | 71-43-2      | 35   | 16  | bis(2-Chloro-1-methylethyl) ether   | 108-60-1     | 40   | 16  |
| Benzethonium chloride  | 121-54-0     | 36   | 16  | bis(2-Chloro-1-methylethyl) ether   | 108-60-1     | 40   | 16  |
| Benzethonium chloride  | 121-54-0     | 40   | 16  | Bisphenol A   | 80-05-7      | 35   | 14  |
| Benzidine dihydrochloride  | 531-85-1     | 51   | *   | Bisphenol A   | 80-05-7      | 36   | 16  |
| Benzofuran   | 271-89-6     | 40   | 16  | Bisphenol A   | 80-05-7      | 36   | 16  |
| Benzoin  | 119-53-9     | 40   | 16  | Bisphenol A   | 80-05-7      | 40   | 16  |
| Benzonitrile   | 100-47-0     | 51   | *   | Bisphenol AF  | 1478-61-1    | 32   | 5   |
| Benzophenone   | 119-61-9     | 36   | 16  | Bisphenol S   | 80-09-1      | 51   | *   |
| Benzophenone   | 119-61-9     | 40   | 16  | 1,2-Bis(2,4,6-<br>tribromophenoxy)ethane  | 37853-59-1   | 32   | 5   |
| p-Benzoquinone dioxime   | 105-11-3     | 40   | 16  | @ Black 38, C.I. Acid<br>(Listed As: C.I. Direct Black<br>38)   | 1937-37-7    | 36   | 16  |
| 1,2,3-Benzotriazole  | 95-14-7      | 40   | 16  | @ Black Cloud Mine Ore (Colorado)<br>(Listed As: Lead ores)   | LEADORES     | 52   | *   |
| Phenolic Benzotriazoles (2-(2H-<br>Benzotriazol-2-yl)-4-tert-<br>butylphenol)  | 3147-76-0    | 32   | 5   | Black Cohosh  | 84776-26-1   | 51   | *   |
| @ Benzoyl peroxide<br>(Listed As: Init/prom<br>comparative mouse study (DMBA/<br>TPA/BPO/MNNG))                                | INIT/PROM    | 44   | 16  | Black Cohosh  | 84776-26-1   | 32   | 5   |
| @ Benzoyl peroxide<br>(Listed As: Init/prom<br>comparative mouse study (DMBA/<br>TPA/BPO/MNNG))                                | INIT/PROM    | 44   | 16  | Black Cohosh  | 84776-26-1   | 51   | *   |
| @ Benzoyl peroxide<br>(Listed As: Init/prom<br>comparative mouse study (DMBA/<br>TPA/BPO/MNNG))                                | INIT/PROM    | 44   | 16  | Black Cohosh  | 84776-26-1   | 33   | 6   |
|  |              |      |     | Black Cohosh  | 84776-26-1   | 51   | *   |
|  |              |      |     | Black newsprint ink   | EMTDP-75     | 36   | 16  |
|  |              |      |     | @ Blue 15, C.I. Direct<br>(Listed As: C.I. Direct Blue<br>15)   | 2429-74-5    | 41   | 16  |
|  |              |      |     | @ Blue 218, C.I. Direct<br>(Listed As: C.I. Direct Blue<br>218)   | 28407-37-6   | 36   | 16  |
|  |              |      |     | @ Blue 218, C.I. Direct<br>(Listed As: C.I. Direct Blue<br>218)   | 28407-37-6   | 41   | 16  |
|  |              |      |     | @ Blue 6, C.I. Direct<br>(Listed As: C.I. Direct Blue<br>6)   | 2602-46-2    | 36   | 16  |

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\* See Appendix, Short-Term Studies for Which Toxicity Technical Reports Were Not Prepared



| Alphabetical Index of Chemicals with Reference Location   |             |      |     | Alphabetical Index of Chemicals with Reference Location                           |              |      |     |
|---|-------------|------|-----|---|--------------|------|-----|
| CHEMICAL NAME   | CASRN       | PAGE | REF | CHEMICAL NAME   | CASRN        | PAGE | REF |
| @ Blue 6, C.I. Direct<br>(Listed As: C.I. Direct Blue 6)  | 2602-46-2   | 51   | *   | 1,3-Butadiene   | 106-99-0     | 51   | *   |
| @ Blue 1, HC<br>(Listed As: HC Blue 1)  | 2784-94-3   | 44   | 16  | 1,3-Butadiene   | 106-99-0     | 40   | 16  |
| @ Blue 2, HC<br>(Listed As: HC Blue 2)  | 33229-34-4  | 44   | 16  | 1,3-Butadiene   | 106-99-0     | 49   | 17  |
| @ BMPC<br>(Listed As: Ionic Liquid: 1-Butyl-1-methylpyrrolidinium Chloride)   | 479500-35-1 | 52   | *   | Butanal oxime   | 110-69-0     | 36   | 16  |
| Boric acid  | 10043-35-3  | 40   | 16  | 1,4-Butanediol  | 110-63-4     |      | 16  |
| @ BP-AF<br>(Listed As: Bisphenol AF)  | 1478-61-1   | 32   | 5   | 2,3-Butanedione   | 431-03-8     | 35   | 14  |
| @ BPAF<br>(Listed As: Bisphenol AF)   | 1478-61-1   | 32   | 5   | @ tert-Butanol<br>(Listed As: tert-Butyl alcohol)                                 | 75-65-0      | 40   | 16  |
| @ BPDP<br>(Listed As: tert-Butylphenyl Diphenyl Phosphate)  | 56803-37-3  | 51   | *   | @ tert-Butanol<br>(Listed As: tert-Butyl alcohol)                                 | 75-65-0      | 36   | 16  |
| Brominated Vegetable Oil  | 8016-94-2   | 32   | 5   | @ Butanone oxime<br>(Listed As: Methyl ethyl ketoxime)                            | 96-29-7      | 38   | 16  |
| Bromobenzene  | 108-86-1    | 51   | *   | @ Butoxyethanol<br>(Listed As: 2-Butoxyethanol (ethylene glycol monobutyl ether)) | 111-76-2     | 36   | 16  |
| Bromobenzene  | 108-86-1    | 51   | *   | @ Butoxyethanol<br>(Listed As: 2-Butoxyethanol (ethylene glycol monobutyl ether)) | 111-76-2     | 36   | 16  |
| @ Bromochloroacetic acid (Water disinfection byproducts)<br>(Listed As: Water disinfection byproducts (Bromochloroacetic acid)) | 5589-96-8   | 48   | 16  | @ Butoxyethanol<br>(Listed As: 2-Butoxyethanol (ethylene glycol monobutyl ether)) | 111-76-2     | 40   | 16  |
| Bromodichloromethane  | 75-27-4     | 40   | 16  | @ Butoxyethanol<br>(Listed As: NTP-88 diet study (EGMBE))                         | DIET88+EGMBE | 53   | *   |
| @ BromodichloromethaneE (Transgenic model evaluation)<br>(Listed As: Transgenic model evaluation (Bromodichloromethane))        | 75-27-4     | 55   | *   | 2-Butoxyethanol (ethylene glycol monobutyl ether)                                 | 111-76-2     | 36   | 16  |
| @ BromodichloromethaneE (Transgenic model evaluation)<br>(Listed As: Transgenic model evaluation (Bromodichloromethane))        | 75-27-4     | 55   | *   | 2-Butoxyethanol (ethylene glycol monobutyl ether)                                 | 111-76-2     | 36   | 16  |
| @ Bromodichloromethane (Water disinfection model)<br>(Listed As: Water disinfection model (Bromodichloromethane))               | 75-27-4     | 35   | 16  | 2-Butoxyethanol (ethylene glycol monobutyl ether)                                 | 111-76-2     | 40   | 16  |
| @ Bromodichloromethane (Water disinfection model)<br>(Listed As: Water disinfection model (Bromodichloromethane))               | 75-27-4     | 35   | 16  | tert-Butyl alcohol  | 75-65-0      | 40   | 16  |
| @ Bromodichloromethane (Water disinfection model)<br>(Listed As: Water disinfection model (Bromodichloromethane))               | 75-27-4     | 35   | 16  | tert-Butyl alcohol  | 75-65-0      | 36   | 16  |
| @ Bromodichloromethane (Water disinfection model)<br>(Listed As: Water disinfection model (Bromodichloromethane))               | 75-27-4     | 35   | 16  | Butylated hydroxytoluene  | 128-37-0     | 40   | 16  |
| @ Bromodichloromethane (Water disinfection model)<br>(Listed As: Water disinfection model (Bromodichloromethane))               | 75-27-4     | 35   | 16  | N-Butylbenzenesulfonamide   | 3622-84-2    | 32   | 5   |
| @ Bromodichloromethane (Water disinfection model)<br>(Listed As: Water disinfection model (Bromodichloromethane))               | 75-27-4     | 35   | 16  | N-Butylbenzenesulfonamide   | 3622-84-2    | 32   | 3   |
| @ Bromodichloromethane (Water disinfection model)<br>(Listed As: Water disinfection model (Bromodichloromethane))               | 75-27-4     | 35   | 16  | Butyl benzyl phthalate  | 85-68-7      | 41   | 16  |
| @ Bromodichloromethane (Water disinfection model)<br>(Listed As: Water disinfection model (Bromodichloromethane))               | 75-27-4     | 35   | 16  | Butyl benzyl phthalate  | 85-68-7      | 36   | 16  |
| @ Bromodichloromethane (Water disinfection model)<br>(Listed As: Water disinfection model (Bromodichloromethane))               | 75-27-4     | 35   | 16  | Butyl benzyl phthalate  | 85-68-7      | 41   | 16  |
| @ Bromodichloromethane (Water disinfection model)<br>(Listed As: Water disinfection model (Bromodichloromethane))               | 75-27-4     | 35   | 16  | p-tert-Butylcatechol  | 98-29-3      | 36   | 16  |
| @ Bromodichloromethane (Water disinfection model)<br>(Listed As: Water disinfection model (Bromodichloromethane))               | 75-27-4     | 35   | 16  | p-tert-Butylcatechol  | 98-29-3      | 36   | 16  |
| @ Bromodichloromethane (Water disinfection model)<br>(Listed As: Water disinfection model (Bromodichloromethane))               | 75-27-4     | 35   | 16  | n-Butyl chloride  | 109-69-3     | 41   | 16  |
| @ Bromodichloromethane (Water disinfection model)<br>(Listed As: Water disinfection model (Bromodichloromethane))               | 75-27-4     | 35   | 16  | n-Butyl Glycidyl Ether  | 2426-08-6    | 51   | *   |
| @ Bromodichloromethane (Water disinfection model)<br>(Listed As: Water disinfection model (Bromodichloromethane))               | 75-27-4     | 35   | 16  | tert-Butyl hydroperoxide  | 75-91-2      | 51   | *   |
| @ Bromodichloromethane (Water disinfection model)<br>(Listed As: Water disinfection model (Bromodichloromethane))               | 75-27-4     | 35   | 16  | tert-Butyl hydroperoxide  | 75-91-2      | 51   | *   |
| Bromoethane (ethyl bromide)   | 74-96-4     | 40   | 16  | t-Butylhydroquinone   | 1948-33-0    | 41   | 16  |
| @ Bromoform<br>(Listed As: Tribromomethane)   | 75-25-2     | 48   | 16  | tert-Butyl perbenzoate  | 614-45-9     | 36   | 16  |
| beta-Bromo-beta-nitrostyrene  | 7166-19-0   | 36   | 16  | tert-Butylphenyl Diphenyl Phosphate   | 56803-37-3   | 51   | *   |
| 1-Bromopropane  | 106-94-5    | 40   | 16  | Butyraldehyde   | 123-72-8     | 51   | *   |
| @ Brown 95, C.I. Direct<br>(Listed As: C.I. Direct Brown 95)  | 16071-86-6  | 36   | 16  | gamma-Butyrolactone   | 96-48-0      | 41   | 16  |
| 1,3-Butadiene   | 106-99-0    | 40   | 16  | @ C9 Alkylbenzenes<br>(Listed As: 1,2,4-trimethylbenzene)                         | 95-63-6      | 33   | 5   |
|   |             |      |     | @ C9 Alkylbenzenes<br>(Listed As: Cumene)   | 98-82-8      | 52   | *   |

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## Alphabetical Index of Chemicals with Reference Location

| CHEMICAL NAME  | CASRN        | PAGE | REF |
|--|--------------|------|-----|
| @ C9 Alkylbenzenes<br>(Listed As: Cumene)            | 98-82-8      | 42   | 16  |
| @ C9 Alkylbenzenes<br>(Listed As: 2-ethyltoluene)    | 611-14-3     | 52   | *   |
| @ C9 Alkylbenzenes<br>(Listed As: 2-ethyltoluene)    | 611-14-3     | 32   | 5   |
| @ C9 Alkylbenzenes<br>(Listed As: 3-ethyltoluene)    | 620-14-4     | 52   | *   |
| @ C9 Alkylbenzenes<br>(Listed As: 4-ethyltoluene)    | 622-96-8     | 52   | *   |
| Cadmium oxide  | 1306-19-0    | 36   | 16  |
| Cadmium oxide  | 1306-19-0    | 36   | 16  |
| @ Cadox TBH<br>(Listed As: tert-Butyl hydroperoxide) | 75-91-2      | 51   | *   |
| @ Cadox TBH<br>(Listed As: tert-Butyl hydroperoxide) | 75-91-2      | 51   | *   |
| Caffeine   | 58-08-2      | 51   | *   |
| Calcium chromate                                     | 13765-19-0   | 49   | 17  |
| Calcium cyanamide                                    | 156-62-7     | 41   | 16  |
| DL-Camphor   | 76-22-2      | 51   | *   |
| Caprolactam  | 105-60-2     | 41   | 16  |
| Captan   | 133-06-2     | 41   | 16  |
| Carbaryl   | 63-25-2      | 51   | *   |
| Carbon disulfide                                     | 75-15-0      | 51   | *   |
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| Carbon tetrachloride                                 | 56-23-5      | 49   | 17  |
| Carbromal  | 77-65-6      | 41   | 16  |
| Cardio Transmitter Gene Evaluation                   | CARDIOGENEVL | 51   | *   |
| Carisoprodol   | 78-44-4      | 51   | *   |
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| D-Carvone  | 2244-16-8    | 41   | 16  |
| Castor oil   | 8001-79-4    | 36   | 16  |
| Cedarwood oil  | 8000-27-9    | 36   | 16  |
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| @ CEM<br>(Listed As: bis(2-Chloroethoxy)methane)     | 111-91-1     | 41   | 16  |
| @ CEM<br>(Listed As: bis(2-Chloroethoxy)methane)     | 111-91-1     | 51   | *   |
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| Chitosan   | 9012-76-4    | 36   | 16  |
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| Chloramben   | 133-90-4     | 41   | 16  |
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| Chloraminated water                                  | CHLORAMINEMX | 41   | 16  |
| Chloramphenicol sodium succinate                     | 982-57-0     | 51   | *   |

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| Chlorinated paraffins: C12, 60% chlorine   | 108171-26-2  | 41   | 16  |
| Chlorinated paraffins: C23, 43% chlorine   | 108171-27-3  | 41   | 16  |
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| p-Chloroaniline hydrochloride  | 20265-96-7   | 41   | 16  |
| o-Chlorobenzalmalononitrile (CS)   | 2698-41-1    | 41   | 16  |
| Chlorobenzene  | 108-90-7     | 41   | 16  |
| Chlorobenzilate  | 510-15-6     | 41   | 16  |
| Chlorodibromomethane   | 124-48-1     | 41   | 16  |
| 3-Chloro-4-(dichloromethyl)-5-hydroxy-2(5H)-furanone (MX)  | 77439-76-0   | 51   | *   |
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| @ 1-Chloro-2-propanol, technical<br>(Transgenic LECM)<br>(Listed As: Transgenic LECM (1-Chloro-2-propanol, technical)) | 127-00-4     | 54   | *   |

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| 3-Chloro-p-toluidine   | 95-74-9     | 41   | 16  |
| 5-Chloro-o-toluidine   | 95-79-4     | 41   | 16  |
| 4-Chloro-o-toluidine<br>hydrochloride  | 3165-93-3   | 41   | 16  |
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| p-Chloro-a,a,a-trifluorotoluene  | 98-56-6     | 36   | 16  |
| @ Chlorowax 40<br>(Listed As: Chlorinated<br>paraffins: C23, 43% chlorine)   | 108171-27-3 | 41   | 16  |
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| Chlorpropamide   | 94-20-2     | 41   | 16  |
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| @ Chrysotile asbestos<br>(Listed As: Asbestos,<br>chrysotile(IR) + Dimethyl<br>hydrazine)                                    | 12001-29-5  | 40   | 16  |
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| C.I. Acid Orange 10  | 1936-15-8   | 41   | 16  |
| C.I. Acid Red 14   | 3567-69-9   | 41   | 16  |
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| @ C.I. Basic Green 4<br>(Listed As: Malachite green)   | 569-64-2    | 44   | 16  |
| @ C.I. Basic Green 4<br>(Listed As: Malachite green)   | 569-64-2    | 38   | 16  |
| @ C.I. Basic Red 1<br>(Listed As: Rhodamine 6G)  | 989-38-8    | 47   | 16  |
| C.I. Basic Red 9<br>Monohydrochloride  | 569-61-9    | 41   | 16  |
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| C.I. Direct Blue 218   | 28407-37-6  | 36   | 16  |
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| C.I. Direct Brown 95   | 16071-86-6  | 36   | 16  |
| C.I. Disperse Blue 1   | 2475-45-8   | 41   | 16  |
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| @ CN<br>(Listed As: 2-<br>Chloroacetophenone (CN))   | 532-27-4           | 41   | 16  |
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| Cobalt sulfate heptahydrate  | 10026-24-1         |      | 16  |
| Cobalt sulfate heptahydrate  | 10026-24-1         | 42   | 16  |
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| @ Coconut oil acid/diethanolamine<br>condensate<br>(Listed As: Coconut oil acid<br>diethanolamine condensate)  | 68603-42-9         | 42   | 16  |
| @ Coconut oil acid diethanolamine<br>condensate (Transgenic LECM)<br>(Listed As: Transgenic<br>LECM (Coconut oil acid<br>diethanolamine condensate)) | 68603-42-9         | 54   | *   |
| @ Coconut oil acid diethanolamine<br>condensate (Transgenic LECM)<br>(Listed As: Transgenic<br>LECM (Coconut oil acid<br>diethanolamine condensate)) | 68603-42-9         | 54   | *   |
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| @ Copper sulfate<br>(Listed As: Cupric sulfate)  | 7758-99-8          | 36   | 16  |
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| @ CTFT<br>(Listed As: p-Chloro-a,a,a-trifluorotoluene)   | 98-56-6      | 34   | 12  | @ DBCP<br>(Listed As: 1,2-Dibromo-3-chloropropane)                                    | 96-12-8    | 42   | 16  |
| @ CTFT<br>(Listed As: p-Chloro-a,a,a-trifluorotoluene)   | 98-56-6      | 41   | 16  | @ DBCP<br>(Listed As: 1,2-Dibromo-3-chloropropane)                                    | 96-12-8    | 42   | 16  |
| @ CTFT<br>(Listed As: p-Chloro-a,a,a-trifluorotoluene)   | 98-56-6      | 36   | 16  | @ DBP<br>(Listed As: Dibutyl Phthalate)   | 84-74-2    | 42   | 16  |
| @ CTFT<br>(Listed As: p-Chloro-a,a,a-trifluorotoluene)   | 98-56-6      | 36   | 16  | @ DBP<br>(Listed As: Dibutyl Phthalate)   | 84-74-2    | 37   | 16  |
| Cumene   | 98-82-8      | 52   | *   | @ DBP<br>(Listed As: Dibutyl Phthalate)   | 84-74-2    | 37   | 16  |
| Cumene   | 98-82-8      | 42   | 16  | @ 1,3-DCP<br>(Listed As: 1,3-Dichloropropene (Telone II))                             | 542-75-6   | 42   | 16  |
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| Cupric sulfate   | 7758-99-8    | 36   | 16  | @ DDC (AIDS Initiative)<br>(Listed As: 2',3'-Dideoxycytidine)                         | 7481-89-2  | 52   | *   |
| @ Curcumin (Prevention 4)<br>(Listed As: Prevention 4 (Curcumin))  | 458-37-7     | 53   | *   | @ DDC (AIDS Initiative)<br>(Listed As: 2',3'-Dideoxycytidine)                         | 7481-89-2  | 52   | *   |
| Cyclanilide  | 113136-77-9  | 52   | *   | @ DDC (AIDS Initiative)<br>(Listed As: 2',3'-Dideoxycytidine)                         | 7481-89-2  | 52   | *   |
| 2-Cyclohexen-1-one   | 930-68-7     | 52   | *   | @ DDC (AIDS Initiative)<br>(Listed As: 2',3'-Dideoxycytidine)                         | 7481-89-2  | 52   | *   |
| Cyclohexanone  | 108-94-1     | 49   | 17  | o,p'-DDD  | 53-19-0    | 49   | 17  |
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| Cyclohexene oxide  | 286-20-4     | 52   | *   | @ DDVP<br>(Listed As: Dichlorvos)   | 62-73-7    | 42   | 16  |
| Cyclohexene oxide  | 286-20-4     | 52   | *   | @ DDVP<br>(Listed As: Dichlorvos)   | 62-73-7    | 42   | 16  |
| Cyclohexene oxide  | 286-20-4     | 52   | *   | Decabromodiphenyl Ether   | 1163-19-5  | 32   | 5   |
| Cyclophosphamide   | 50-18-0      | 49   | 17  | Decabromodiphenyl Ether   | 1163-19-5  | 42   | 16  |
| @ Cyclophosphamide monohydrate<br>(Transgenic model evaluation)<br>(Listed As: Transgenic model evaluation (Cyclophosphamide monohydrate)) | 6055-19-2    | 55   | *   | 2,4-Decadienal  | 25152-84-5 | 52   | *   |
| @ Cyclophosphamide monohydrate<br>(Transgenic model evaluation)<br>(Listed As: Transgenic model evaluation (Cyclophosphamide monohydrate)) | 6055-19-2    | 55   | *   | 2,4-Decadienal  | 25152-84-5 | 36   | 16  |
| @ Cyclosporin A (Transgenic model evaluation)<br>(Listed As: Transgenic model evaluation (Cyclosporin A))                                  | 59865-13-3   | 55   | *   | Decalin   | 91-17-8    | 42   | 16  |
| @ Cyclosporin A (Transgenic model evaluation)<br>(Listed As: Transgenic model evaluation (Cyclosporin A))                                  | 59865-13-3   | 55   | *   | @ DEHP<br>(Listed As: Di(2-ethylhexyl) Phthalate)                                     | 117-81-7   | 34   | 10  |
| Cyfluthrin   | 68359-37-5   | 52   | *   | @ DEHP<br>(Listed As: Di(2-ethylhexyl) Phthalate)                                     | 117-81-7   | 42   | 16  |
| Cyprodinil   | 121552-61-2  | 52   | *   | @ DEHP<br>(Listed As: Di(2-ethylhexyl) Phthalate)                                     | 117-81-7   | 52   | *   |
| Cytarabine   | 147-94-4     | 49   | 17  | @ DEHP<br>(Listed As: Di(2-ethylhexyl) Phthalate)                                     | 117-81-7   | 32   | 5   |
| Cytembena  | 21739-91-3   | 42   | 16  | @ DEHP<br>(Listed As: Di(2-ethylhexyl) Phthalate)                                     | 117-81-7   | 52   | *   |
| Cytoxal alcohol  | 4465-94-5    | 49   | 17  | @ DEHP<br>(Listed As: Di(2-ethylhexyl) Phthalate)                                     | 117-81-7   | 42   | 16  |
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| @ DES (Transgenic model evaluation)<br>(Listed As: Transgenic model<br>evaluation (DES))  | 56-53-1    | 55   | *   | @ Dibromodicyanobutane<br>(Listed As: 1,2-Dibromo-2,4-<br>dicyanobutane)   | 35691-65-7 | 37   | 16  |
| @ DES (Transgenic model evaluation)<br>(Listed As: Transgenic model<br>evaluation (DES))  | 56-53-1    | 55   | *   | @ Dibromodicyanobutane<br>(Listed As: 1,2-Dibromo-2,4-<br>dicyanobutane)   | 35691-65-7 | 42   | 16  |
| @ DGRE<br>(Listed As: Diglycidyl<br>resorcinol ether (DGRE))  | 101-90-6   | 42   | 16  | 1,2-Dibromo-2,4-dicyanobutane  | 35691-65-7 | 52   | *   |
| @ DHPT<br>(Listed As: 4-(6-Methyl-2-<br>benzothiazolyl)-benzenamine)  | 92-36-4    | 53   | *   | 1,2-Dibromo-2,4-dicyanobutane  | 35691-65-7 | 52   | *   |
| @ DIACETYL<br>(Listed As: 2,3-Butanedione)  | 431-03-8   | 35   | 14  | 1,2-Dibromo-2,4-dicyanobutane  | 35691-65-7 | 37   | 16  |
| Diallyl phthalate   | 131-17-9   | 42   | 16  | 1,2-Dibromo-2,4-dicyanobutane  | 35691-65-7 | 42   | 16  |
| Diallyl phthalate   | 131-17-9   | 42   | 16  | Dibromodulcitol  | 10318-26-0 | 49   | 17  |
| 4,4'-Diamino-2,2'-<br>stilbenedisulfonic acid, disodium<br>salt   | 7336-20-1  | 42   | 16  | 1,2-Dibromoethane  | 106-93-4   | 42   | 16  |
| 2,4-Diaminoanisole sulfate  | 39156-41-7 | 42   | 16  | 1,2-Dibromoethane  | 106-93-4   | 42   | 16  |
| 2,4-Diaminophenol dihydrochloride   | 137-09-7   | 42   | 16  | Dibromomannitol  | 488-41-5   | 49   | 17  |
| 2,4-Diaminotoluene (2,4-toluene<br>diamine)   | 95-80-7    | 42   | 16  | 2,3-Dibromo-1-propanol   | 96-13-9    | 42   | 16  |
| @ 2,6-Diaminotoluene HCL<br>(Transgenic model evaluation)<br>(Listed As: Transgenic model<br>evaluation (2,6-Diaminotoluene<br>2HCL)) | 15481-70-6 | 55   | *   | Dibutyl Phthalate  | 84-74-2    | 42   | 16  |
| @ 2,6-Diaminotoluene HCL<br>(Transgenic model evaluation)<br>(Listed As: Transgenic model<br>evaluation (2,6-Diaminotoluene<br>2HCL)) | 15481-70-6 | 55   | *   | Dibutyl Phthalate  | 84-74-2    | 37   | 16  |
| @ 2,4-Diaminotoluene (Transgenic<br>model evaluation)<br>(Listed As: Transgenic<br>model evaluation (2,4-<br>Diaminotoluene))         | 95-80-7    | 55   | *   | Dibutyl Phthalate  | 84-74-2    | 37   | 16  |
| @ 2,4-Diaminotoluene (Transgenic<br>model evaluation)<br>(Listed As: Transgenic<br>model evaluation (2,4-<br>Diaminotoluene))         | 95-80-7    | 55   | *   | @ Dibutyl phthalate (Peroxisome<br>project)<br>(Listed As: Peroxisome project<br>(Dibutyl phthalate))                              | 84-74-2    | 53   | *   |
| Diarylanilide yellow  | 6358-85-6  | 42   | 16  | Dibutyltin diacetate   | 1067-33-0  | 42   | 16  |
| Diazinon  | 333-41-5   | 42   | 16  | @ DIC<br>(Listed As:<br>Diisopropylcarbodiimide)   | 693-13-0   | 37   | 16  |
| Diazoaminobenzene   | 136-35-6   | 36   | 16  | @ DIC<br>(Listed As:<br>Diisopropylcarbodiimide)   | 693-13-0   | 35   | 16  |
| Dibenzo-p-dioxin  | 262-12-4   | 42   | 16  | @ DIC<br>(Listed As:<br>Diisopropylcarbodiimide)   | 693-13-0   | 35   | 16  |
| @ Dibromoacetic acid (Water<br>disinfection byproducts)<br>(Listed As: Water disinfection<br>byproducts (Dibromoacetic<br>acid))      | 631-64-1   | 56   | *   | @ DIC<br>(Listed As:<br>Diisopropylcarbodiimide)   | 693-13-0   | 43   | 16  |
| @ Dibromoacetic acid (Water<br>disinfection byproducts)<br>(Listed As: Water disinfection<br>byproducts (Dibromoacetic<br>acid))      | 631-64-1   | 48   | 16  | @ Dichloroacetic acid (Water<br>disinfection byproducts)<br>(Listed As: Water disinfection<br>byproducts (Dichloroacetic<br>acid)) | 79-43-6    | 56   | *   |
| 1,2-Dibromo-3-chloropropane   | 96-12-8    | 42   | 16  | @ Dichloroacetic acid (Water<br>disinfection mode)<br>(Listed As: Water disinfection<br>model (Dichloroacetic acid))               | 79-43-6    | 35   | 16  |
| 1,2-Dibromo-3-chloropropane   | 96-12-8    | 42   | 16  | @ Dichloroacetic acid (Water<br>disinfection mode)<br>(Listed As: Water disinfection<br>model (Dichloroacetic acid))               | 79-43-6    | 35   | 16  |
| @ Dibromodicyanobutane<br>(Listed As: 1,2-Dibromo-2,4-<br>dicyanobutane)  | 35691-65-7 | 52   | *   | @ Dichloroacetic acid (Water<br>disinfection mode)<br>(Listed As: Water disinfection<br>model (Dichloroacetic acid))               | 79-43-6    | 35   | 16  |
|   |            |      |     | 1,2-Dichlorobenzene<br>(o-dichlorobenzene)   | 95-50-1    | 42   | 16  |
|   |            |      |     | 1,4-Dichlorobenzene<br>(p-dichlorobenzene)   | 106-46-7   | 42   | 16  |
|   |            |      |     | 5,6-Dichloro-2-benzothiazolamine   | 24072-75-1 | 52   | *   |
|   |            |      |     | 2,7-Dichlorodibenzo-p-dioxin   | 33857-26-0 | 42   | 16  |

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\* See Appendix, Short-Term Studies for Which Toxicity Technical Reports Were Not Prepared

| Alphabetical Index of Chemicals with Reference Location   |           |      |     | Alphabetical Index of Chemicals with Reference Location   |              |      |     |
|---|-----------|------|-----|---|--------------|------|-----|
| CHEMICAL NAME   | CASRN     | PAGE | REF | CHEMICAL NAME   | CASRN        | PAGE | REF |
| @ 1,2-Dichloro-1,1-difluoroethane<br>(Halogenated ethanes CS)<br>(Listed As: Halogenated<br>ethanes CS (1,2-Dichloro-1,1-<br>difluoroethane)) | 1649-08-7 | 37   | 16  | Diesel fuel marine  | DIESELFUEL   | 42   | 16  |
| p,p'-Dichlorodiphenyl<br>dichloroethylene   | 72-55-9   | 42   | 16  | Diet Evaluation Study   | DIETEVAL     | 52   | *   |
| p,p'-Dichlorodiphenyl sulfone   | 80-07-9   |      | 16  | Diethanolamine  | 111-42-2     | 37   | 16  |
| p,p'-Dichlorodiphenyl sulfone   | 80-07-9   | 42   | 16  | Diethanolamine  | 111-42-2     | 37   | 16  |
| Dichlorodiphenyltrichloroethane<br>(DDT)  | 50-29-3   | 42   | 16  | Diethanolamine  | 111-42-2     | 42   | 16  |
| 1,1-Dichloroethane  | 75-34-3   | 42   | 16  | @ Diethanolamine (Transgenic LECM)<br>(Listed As: Transgenic LECM<br>(diethanolamine))  | 111-42-2     | 56   | *   |
| 1,2-Dichloroethane  | 107-06-2  | 42   | 16  | Diethylamine  | 109-89-7     | 42   | 16  |
| 1,2-Dichloroethane  | 107-06-2  | 37   | 16  | Di(2-ethylhexyl)adipate   | 103-23-1     | 42   | 16  |
| 1,2-Dichloroethane  | 107-06-2  |      | 16  | Di(2-ethylhexyl) Phthalate  | 117-81-7     | 34   | 10  |
| 1,2-Dichloroethane  | 107-06-2  |      | 16  | Di(2-ethylhexyl) Phthalate  | 117-81-7     | 42   | 16  |
| 1,2-Dichloroethane  | 107-06-2  |      | 16  | Di(2-ethylhexyl) Phthalate  | 117-81-7     | 52   | *   |
| @ Dichloroethylene,1,1<br>(Listed As: Vinylidene<br>Chloride)   | 75-35-4   | 48   | 16  | Di(2-ethylhexyl) Phthalate  | 117-81-7     | 32   | 5   |
| @ Dichloroethylene,1,1<br>(Listed As: Vinylidene<br>Chloride)   | 75-35-4   | 48   | 16  | Di(2-ethylhexyl) Phthalate  | 117-81-7     | 52   | *   |
| cis & trans 1,2-Dichloroethylene  | 540-59-0  | 52   | *   | Di(2-ethylhexyl) Phthalate<br>(Transgenic model evaluation)<br>(Listed As: Transgenic model<br>evaluation (Di(2-ethylhexyl)<br>phthalate))                      | 117-81-7     | 55   | *   |
| cis-1,2-Dichloroethylene  | 156-59-2  | 52   | *   | @ Di (2-ethylhexyl) phthalate<br>(Transgenic model evaluation)<br>(Listed As: Transgenic model<br>evaluation (Di(2-ethylhexyl)<br>phthalate))                   | 117-81-7     | 55   | *   |
| trans-1,2-Dichloroethylene  | 156-60-5  | 52   | *   | Di(p-ethylphenyl)dichloroethane   | 72-56-0      | 42   | 16  |
| trans-1,2-Dichloroethylene  | 156-60-5  | 52   | *   | Diethyl phthalate   | 84-66-2      | 42   | 16  |
| trans-1,2-Dichloroethylene  | 156-60-5  | 37   | 16  | Diethyl phthalate/dimethyl<br>phthalate   | DIETH/DIMETH | 42   | 16  |
| @ Dichloromethane<br>(Listed As: Methylene<br>chloride)   | 75-09-2   | 45   | 16  | N,N'-Diethylthiourea  | 105-55-5     | 42   | 16  |
| Dichloromethotrexate  | 528-74-5  | 49   | 17  | @ 1,2-Difluoro-1,1,2,2-<br>tetrachloroethane (Halogenated<br>ethanes CS)<br>(Listed As: Halogenated<br>ethanes CS (1,2-Difluoro-<br>1,1,2,2-tetrachloroethane)) | 76-12-0      | 37   | 16  |
| 2,4-Dichlorophenol  | 120-83-2  | 42   | 16  | Diglycidyl resorcinol ether<br>(DGRE)   | 101-90-6     | 42   | 16  |
| 2,6-Dichloro-p-phenylenediamine   | 609-20-1  | 42   | 16  | 3,4-Dihydrocoumarin   | 119-84-6     | 37   | 16  |
| 1,2-Dichloropropane (propylene<br>dichloride)   | 78-87-5   | 42   | 16  | 3,4-Dihydrocoumarin   | 119-84-6     | 42   | 16  |
| 1,3-Dichloropropene (Telone II)   | 542-75-6  | 42   | 16  | 1,2-Dihydro-2,2,4-<br>trimethylquinoline (monomer)  | 147-47-7     | 37   | 16  |
| 2,3-Dichloropropylene   | 78-88-6   | 52   | *   | 1,2-Dihydro-2,2,4-<br>trimethylquinoline (monomer)  | 147-47-7     | 42   | 16  |
| Dichlorvos  | 62-73-7   | 42   | 16  | 1,2-Dihydro-2,2,4-<br>trimethylquinoline (monomer)  | 147-47-7     | 37   | 16  |
| Dichlorvos  | 62-73-7   | 42   | 16  | 1,2-Dihydro-2,2,4-<br>trimethylquinoline (polymer)  | 26780-96-1   | 52   | *   |
| Dicofol   | 115-32-2  | 42   | 16  | Diisopropylcarbodiimide   | 693-13-0     | 37   | 16  |
| Dicyclohexylcarbodiimide  | 538-75-0  | 35   | 16  | Diisopropylcarbodiimide   | 693-13-0     | 35   | 16  |
| Dicyclohexylcarbodiimide  | 538-75-0  | 35   | 16  | Diisopropylcarbodiimide   | 693-13-0     | 35   | 16  |
| Dicyclohexylcarbodiimide  | 538-75-0  | 35   | 16  | Diisopropylcarbodiimide   | 693-13-0     | 43   | 16  |
| N,N'-Dicyclohexylthiourea   | 1212-29-9 | 42   | 16  | Dimethoate  | 60-51-5      | 43   | 16  |
| 2',3'-Dideoxycytidine   | 7481-89-2 | 52   | *   | Dimethoxane   | 828-00-2     | 43   | 16  |
| 2',3'-Dideoxycytidine   | 7481-89-2 | 52   | *   | 2,4-Dimethoxyaniline<br>hydrochloride   | 54150-69-5   | 43   | 16  |
| 2',3'-Dideoxycytidine   | 7481-89-2 | 52   | *   | 3,3'-Dimethoxybenzidine<br>dihydrochloride  | 20325-40-0   | 43   | 16  |
| @ 2',3'-Dideoxycytidine (AIDS<br>Initiative)<br>(Listed As: 2',3'-<br>Dideoxycytidine)  | 7481-89-2 | 52   | *   |   |              |      |     |
| @ 2',3'-Dideoxycytidine (AIDS<br>Initiative)<br>(Listed As: 2',3'-<br>Dideoxycytidine)  | 7481-89-2 | 52   | *   |   |              |      |     |
| @ 2',3'-Dideoxycytidine (AIDS<br>Initiative)<br>(Listed As: 2',3'-<br>Dideoxycytidine)  | 7481-89-2 | 52   | *   |   |              |      |     |
| Dieldrin  | 60-57-1   | 42   | 16  |   |              |      |     |
| Dieldrin  | 60-57-1   | 42   | 16  |   |              |      |     |

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| Alphabetical Index of Chemicals with Reference Location   |              |      |     | Alphabetical Index of Chemicals with Reference Location                                   |             |      |     |
|---|--------------|------|-----|---|-------------|------|-----|
| CHEMICAL NAME   | CASRN        | PAGE | REF | CHEMICAL NAME   | CASRN       | PAGE | REF |
| 3,3'-Dimethoxybenzidine-4,4'-diisocyanate   | 91-93-0      | 43   | 16  | @ DMBA/TPA/BPO/MNNG<br>(Listed As: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)) | INIT/PROM   | 44   | 16  |
| Dimethylamine Borane  | 74-94-2      | 52   | *   | @ DMBA/TPA/BPO/MNNG<br>(Listed As: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)) | INIT/PROM   | 44   | 16  |
| Dimethylaminopropyl chloride, hydrochloride   | 5407-04-5    | 52   | *   | @ DMBA/TPA/BPO/MNNG<br>(Listed As: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)) | INIT/PROM   | 44   | 16  |
| Dimethylaminopropyl chloride, hydrochloride   | 5407-04-5    | 37   | 16  | @ DMBA/TPA/BPO/MNNG<br>(Listed As: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)) | INIT/PROM   | 44   | 16  |
| N,N-Dimethylaniline   | 121-69-7     | 43   | 16  | @ DMBA/TPA/BPO/MNNG<br>(Listed As: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)) | INIT/PROM   | 44   | 16  |
| @ 7,12-Dimethylbenz(A)anthracene (DMBA)<br>(Listed As: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG))               | INIT/PROM    | 44   | 16  | @ DMDEE<br>(Listed As: 2,2'-Dimorpholinodiethyl Ether)                                    | 6425-39-4   | 32   | 5   |
| @ 7,12-Dimethylbenz(A)anthracene (DMBA)<br>(Listed As: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG))               | INIT/PROM    | 44   | 16  | @ DMVC<br>(Listed As: Dimethylvinyl chloride (DMVC))                                      | 513-37-1    | 43   | 16  |
| @ 7,12-Dimethylbenz(A)anthracene (DMBA)<br>(Listed As: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG))               | INIT/PROM    | 44   | 16  | @ DON<br>(Listed As: Deoxynivalenol)  | 51481-10-8  | 32   | 2   |
| 3,3'-Dimethylbenzidine dihydrochloride  | 612-82-8     | 43   | 16  | Dong quai (Angelica sinensis root extract)  | 299184-76-2 | 32   | 2   |
| Dimethylcarbamoyl chloride  | 79-44-7      | 49   | 17  | Doxylamine  | 469-21-6    | 43   | 16  |
| Dimethylformamide   | 68-12-2      | 16   |     | Phenolic Benzotriazoles (Drometrizole)  | 2440-22-4   | 32   | 5   |
| Dimethyl hydrazine (DMH)  | 57-14-7      | 49   | 17  | @ EDTA<br>(Listed As: Trisodium ethylenediaminetetraacetate trihydrate (EDTA))            | 150-38-9    | 48   | 16  |
| 1,2-Dimethylhydrazine 2HCl  | 306-37-6     | 49   | 17  | @ EGMEE<br>(Listed As: 2-Butoxyethanol (ethylene glycol monobutyl ether))                 | 111-76-2    | 36   | 16  |
| Dimethyl hydrogen phosphite   | 868-85-9     | 43   | 16  | @ EGMEE<br>(Listed As: 2-Butoxyethanol (ethylene glycol monobutyl ether))                 | 111-76-2    | 36   | 16  |
| Dimethyl methylphosphonate  | 756-79-6     | 43   | 16  | @ EGMEE<br>(Listed As: 2-Butoxyethanol (ethylene glycol monobutyl ether))                 | 111-76-2    | 36   | 16  |
| Dimethyl morpholinophosphoramidate  | 597-25-1     | 43   | 16  | @ EGMEE<br>(Listed As: Ethylene glycol monoethyl ether (EGMEE))                           | 110-80-5    | 37   | 16  |
| Dimethyl terephthalate  | 120-61-6     | 43   | 16  | @ EGMEE<br>(Listed As: Ethylene glycol monoethyl ether (EGMEE))                           | 110-80-5    | 37   | 16  |
| N,N-Dimethyl-p-toluidine  | 99-97-8      | 52   | *   | @ EGMEE<br>(Listed As: Ethylene Glycol Monomethyl Ether (EGMEE))                          | 109-86-4    | 37   | 16  |
| N,N-Dimethyl-p-toluidine  | 99-97-8      | 52   | *   | @ EGMEE<br>(Listed As: Ethylene Glycol Monomethyl Ether (EGMEE))                          | 109-86-4    | 37   | 16  |
| N,N-Dimethyl-p-toluidine  | 99-97-8      | 43   | 16  | Elmiron (sodium pentosanpolysulfate)  | 37319-17-8  | 43   | 16  |
| Dimethylvinyl chloride (DMVC)   | 513-37-1     | 43   | 16  | Elmiron (sodium pentosanpolysulfate)  | 37319-17-8  | 37   | 16  |
| 2,2'-Dimorpholinodiethyl Ether  | 6425-39-4    | 32   | 5   | Emetine hydrochloride   | 316-42-7    | 43   | 16  |
| 2,4-Dinitrotoluene  | 121-14-2     | 43   | 16  | @ EMF + DMBA init prom<br>(Listed As: Magnetic fields + DMBA initiation promotion)        | EMF+DMBA    | 38   | 16  |
| 1,4-Dioxane   | 123-91-1     | 43   | 16  | Emodin  | 518-82-1    | 43   | 16  |
| Dioxathion  | 78-34-2      | 43   | 16  | Endocrine disruptor (Ethinyl estradiol)   | 57-63-6     | 43   | 16  |
| @ Dioxin mixture (Toxic equivalency factor evaluation)<br>(Listed As: Toxic equivalency factor evaluation (Dioxin mixture)) | TEFDIOXINMIX | 48   | 16  | Endocrine disruptor (Ethinyl estradiol)   | 57-63-6     | 43   | 16  |
| Diphenhydramine hydrochloride   | 147-24-0     | 43   | 16  |   |             |      |     |
| 1,3-Diphenylguanidine   | 102-06-7     | 16   |     |   |             |      |     |
| 5,5-Diphenylhydantoin (phenytoin)   | 57-41-0      | 43   | 16  |   |             |      |     |
| @ DIPHONE<br>(Listed As: Bisphenol S)   | 80-09-1      | 51   | *   |   |             |      |     |
| Dipropylene glycol  | 25265-71-8   | 37   | 16  |   |             |      |     |
| Dipropylene glycol  | 25265-71-8   | 43   | 16  |   |             |      |     |
| 2,5-Dithiobiurea  | 142-46-1     | 43   | 16  |   |             |      |     |
| Divinylbenzene  | 1321-74-0    | 52   | *   |   |             |      |     |
| Divinylbenzene  | 1321-74-0    | 43   | 16  |   |             |      |     |
| @ DMBA + EMF init prom<br>(Listed As: Magnetic fields + DMBA initiation promotion)  | EMF+DMBA     | 38   | 16  |   |             |      |     |

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|---|--------------|------|-----|--|--------------|------|-----|
| CHEMICAL NAME   | CASRN        | PAGE | REF | CHEMICAL NAME  | CASRN        | PAGE | REF |
| Endocrine disruptor (Ethinyl estradiol)   | 57-63-6      | 43   | 16  | @ Ethylene dibromide<br>(Listed As: 1,2-Dibromoethane)   | 106-93-4     | 42   | 16  |
| Endocrine disruptor (Genistein)   | 446-72-0     | 43   | 16  | @ Ethylene dichloride<br>(Listed As: 1,2-Dichloroethane)   | 107-06-2     | 42   | 16  |
| Endosulfan  | 115-29-7     | 43   | 16  | @ Ethylene dichloride<br>(Listed As: 1,2-Dichloroethane)   | 107-06-2     | 37   | 16  |
| Endrin  | 72-20-8      | 43   | 16  | @ Ethylene dichloride<br>(Listed As: 1,2-Dichloroethane)   | 107-06-2     |      | 16  |
| Ephedrine + caffeine combination  | EPHEDCOMBO   | 52   | *   | @ Ethylene dichloride<br>(Listed As: 1,2-Dichloroethane)   | 107-06-2     |      | 16  |
| Ephedrine + caffeine combination  | EPHEDCOMBO   | 52   | *   | Ethylene glycol  | 107-21-1     | 43   | 16  |
| Ephedrine sulfate   | 134-72-5     | 43   | 16  | Ethylene glycol monoethyl ether<br>(EGMEE)   | 110-80-5     | 37   | 16  |
| Epichlorhydrin  | 106-89-8     | 49   | 17  | Ethylene glycol monoethyl ether<br>(EGMEE)   | 110-80-5     | 37   | 16  |
| Epinephrine hydrochloride   | 55-31-2      | 43   | 16  | Ethylene Glycol Monomethyl Ether<br>(EGMME)  | 109-86-4     | 37   | 16  |
| 1,2-Epoxybutane   | 106-88-7     | 43   | 16  | Ethylene Glycol Monomethyl Ether<br>(EGMME)  | 109-86-4     | 37   | 16  |
| Erythromycin stearate   | 643-22-1     | 43   | 16  | Ethylene oxide   | 75-21-8      | 43   | 16  |
| Estradiol mustard   | 22966-79-6   | 43   | 16  | Ethylene thiourea (ETU)  | 96-45-7      | 43   | 16  |
| Estragole   | 140-67-0     | 52   | *   | 2-Ethylhexyl Diphenyl Phosphate  | 1241-94-7    | 52   | *   |
| Estragole   | 140-67-0     | 37   | 16  | @ 1-Ethyl-3-methylimidazolium<br>Chloride (Ionic Liquid)<br>(Listed As: Ionic Liquid: 1-Ethyl-3-methylimidazolium<br>Chloride) | 65039-09-0   | 37   | 16  |
| 1,2-bis(pentabromophenyl)ethane   | 84852-53-9   | 32   | 5   | Ethyl tellurac   | 20941-65-5   | 43   | 16  |
| Ethanol   | 64-17-5      | 43   | 16  | @ Ethyl tellurac<br>(Listed As: Ethyl tellurac)  | 20941-65-5   | 43   | 16  |
| Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super@; OTNE)                  | 54464-57-2   | 37   | 16  | 2-ethyltoluene   | 611-14-3     | 52   | *   |
| Ethinyl estradiol   | 57-63-6      | 32   | 5   | 2-ethyltoluene   | 611-14-3     | 32   | 5   |
| @ Ethinyl estradiol (Endocrine disruptor)<br>(Listed As: Endocrine disruptor (Ethinyl estradiol))                 | 57-63-6      | 43   | 16  | 3-ethyltoluene   | 620-14-4     | 52   | *   |
| @ Ethinyl estradiol (Endocrine disruptor)<br>(Listed As: Endocrine disruptor (Ethinyl estradiol))                 | 57-63-6      | 43   | 16  | 4-ethyltoluene   | 622-96-8     | 52   | *   |
| @ Ethinyl estradiol (Endocrine disruptor)<br>(Listed As: Endocrine disruptor (Ethinyl estradiol))                 | 57-63-6      | 43   | 16  | Ethyl vinyl ketone   | 1629-58-9    | 52   | *   |
| @ Ethinyl estradiol (Transgenic model evaluation)<br>(Listed As: Transgenic model evaluation (Ethinyl estradiol)) | 57-63-6      | 55   | *   | Eugenol  | 97-53-0      | 43   | 16  |
| @ Ethinyl estradiol (Transgenic model evaluation)<br>(Listed As: Transgenic model evaluation (Ethinyl estradiol)) | 57-63-6      | 55   | *   | @ EVK<br>(Listed As: Ethyl vinyl ketone)   | 1629-58-9    | 52   | *   |
| Ethionamide   | 536-33-4     | 43   | 16  | FD & C Yellow No. 6  | 2783-94-0    | 43   | 16  |
| @ Ethoxyethanol<br>(Listed As: NTP-88 diet study (EGMEE))   | DIET88+EGMEE | 53   | *   | Feed restriction studies   | FEEDRESTRICT | 43   | 16  |
| Ethoxyquin  | 91-53-2      | 52   | *   | Formulated fenaminosulf  | 140-56-7     | 43   | 16  |
| Ethyl acrylate  | 140-88-5     | 43   | 16  | Fenofibrate  | 49562-28-9   | 32   | 5   |
| Ethylbenzene  | 100-41-4     | 37   | 16  | Fenthion   | 55-38-9      | 43   | 16  |
| Ethylbenzene  | 100-41-4     | 43   | 16  | Ferrocene  | 102-54-5     | 52   | *   |
| @ Ethyl bromide<br>(Listed As: Bromoethane (ethyl bromide))   | 74-96-4      | 40   | 16  | @ Firemaster 680<br>(Listed As: 1,2-Bis(2,4,6-tribromophenoxy)ethane)  | 37853-59-1   | 32   | 5   |
| @ Ethyl chloride<br>(Listed As: Chloroethane)   | 75-00-3      | 41   | 16  | @ Firemaster FF-1<br>(Listed As: Polybrominated biphenyl mixture (Firemaster FF-1))  | 67774-32-7   | 46   | 16  |
| @ Ethylene chlorohydrin<br>(Listed As: 2-Chloroethanol (ethylene chlorohydrin))                                   | 107-07-3     | 41   | 16  | @ Firemaster FF-1<br>(Listed As: Polybrominated biphenyl mixture (Firemaster FF-1))  | 67774-32-7   | 46   | 16  |
| @ Ethylene dibromide<br>(Listed As: 1,2-Dibromoethane)  | 106-93-4     | 42   | 16  | Fish project 1 (2,2-bis(Bromomethyl)-1,3-propanediol)  | 3296-90-0    | 43   | 16  |

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|--|------------|------|-----|--|--------------|------|-----|
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| Fish project 1 (2,2-bis(Bromomethyl)-1,3-propanediol)                                  | 3296-90-0  | 43   | 16  | @ Flame Retardant 2<br>(Listed As: Hexachlorocyclopentadienyl-dibromocyclooctane)          | 51936-55-1   | 32   | 5   |
| Fish Project 1 (Nitromethane)  | 75-52-5    | 43   | 16  | @ Flame Retardant 2<br>(Listed As: 1,2-bis(pentabromophenyl)ethane)                        | 84852-53-9   | 32   | 5   |
| Fish Project 1 (Nitromethane)  | 75-52-5    | 43   | 16  | @ Flame Retardant 2<br>(Listed As: 2-ethylhexyl-2,3,4,5-tetrabromobenzoate)                | 183658-27-7  | 33   | 5   |
| Fish project 1<br>(1,2,3-Trichloropropane)   | 96-18-4    | 43   | 16  | @ Flaxseed oil + melatonin<br>(Prevention 1)   | FLAXSEED+MEL | 54   | *   |
| Fish project 1<br>(1,2,3-Trichloropropane)   | 96-18-4    | 43   | 16  | (Listed As: Prevention 1<br>(Flaxseed oil + melatonin))                                    |              |      |     |
| @ Flame Retardant 1<br>(Listed As: Triphenyl Phosphate)                                | 115-86-6   | 56   | *   | @ Flaxseed oil (Prevention 1)<br>(Listed As: Prevention 1<br>(Flaxseed oil))               | 8001-26-1    | 53   | *   |
| @ Flame Retardant 1<br>(Listed As: Triphenyl Phosphate)                                | 115-86-6   | 33   | 5   | Fluometuron  | 2164-17-2    | 43   | 16  |
| @ Flame Retardant 1<br>(Listed As: 2-Ethylhexyl Diphenyl Phosphate)                    | 1241-94-7  | 52   | *   | Fluorotelomer Alcohol 8+2  | 678-39-7     | 32   | 3   |
| @ Flame Retardant 1<br>(Listed As: Tricresyl Phosphate)                                | 1330-78-5  | 56   | *   | Flusilazole  | 85509-19-9   | 52   | *   |
| @ Flame Retardant 1<br>(Listed As: Tricresyl Phosphate)                                | 1330-78-5  | 56   | *   | Flutamide  | 13311-84-7   | 52   | *   |
| @ Flame Retardant 1<br>(Listed As: Tricresyl Phosphate)                                | 1330-78-5  | 48   | 16  | Formaldehyde   | 50-00-0      | 52   | *   |
| @ Flame Retardant 1<br>(Listed As: Isodecyl Diphenyl Phosphate)                        | 29761-21-5 | 52   | *   | Formaldehyde   | 50-00-0      | 52   | *   |
| @ Flame Retardant 1<br>(Listed As: tert-Butylphenyl Diphenyl Phosphate)                | 56803-37-3 | 51   | *   | Formamide  | 75-12-7      | 37   | 16  |
| @ Flame Retardant 1<br>(Listed As: Isopropylated Phenol Phosphate)                     | 68937-41-7 | 32   | 5   | Formamide  | 75-12-7      | 43   | 16  |
| @ Flame Retardant 1<br>(Listed As: Isopropylated Phenol Phosphate)                     | 68937-41-7 | 52   | *   | Formic acid  | 64-18-6      | 37   | 16  |
| @ Flame Retardant 2<br>(Listed As: Decabromodiphenyl Ether)                            | 1163-19-5  | 32   | 5   | Fumonisin B1   | 116355-83-0  |      | 16  |
| @ Flame Retardant 2<br>(Listed As: Decabromodiphenyl Ether)                            | 1163-19-5  | 42   | 16  | Fumonisin B1   | 116355-83-0  | 43   | 16  |
| @ Flame Retardant 2<br>(Listed As: 2,2',4,4'-Tetrabromodiphenyl Ether)                 | 5436-43-1  | 54   | *   | Furan  | 110-00-9     | 35   | 14  |
| @ Flame Retardant 2<br>(Listed As: 2,2',4,4'-Tetrabromodiphenyl Ether)                 | 5436-43-1  | 54   | *   | Furan  | 110-00-9     | 32   | 5   |
| @ Flame Retardant 2<br>(Listed As: 2,2',4,4'-Tetrabromodiphenyl Ether)                 | 5436-43-1  | 33   | 5   | Furan  | 110-00-9     | 43   | 16  |
| @ Flame Retardant 2<br>(Listed As: Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)) | 21850-44-2 | 38   | 16  | Furfural   | 98-01-1      | 43   | 16  |
| @ Flame Retardant 2<br>(Listed As: 1,3,5,7,9,11-Hexabromocyclododecane)                | 25637-99-4 | 32   | 5   | Furfuryl alcohol   | 98-00-0      | 37   | 16  |
| @ Flame Retardant 2<br>(Listed As: Bis(2-ethylhexyl) tetrabromophthalate)              | 26040-51-7 | 33   | 5   | Furfuryl alcohol   | 98-00-0      | 43   | 16  |
| @ Flame Retardant 2<br>(Listed As: 1,2-Bis(2,4,6-tribromophenoxy)ethane)               | 37853-59-1 | 32   | 5   | @ Furfuryl alcohol (Transgenic LECM)<br>(Listed As: Transgenic LECM<br>(Furfuryl alcohol)) | 98-00-0      | 54   | *   |
|  |            |      |     | Furoseamide  | 54-31-9      | 43   | 16  |
|  |            |      |     | Gallium arsenide   | 1303-00-0    | 37   | 16  |
|  |            |      |     | Gallium arsenide   | 1303-00-0    | 43   | 16  |
|  |            |      |     | Gallium oxide  | 12024-21-4   | 52   | *   |
|  |            |      |     | Garcinia Cambogia Extract  | 90045-23-1   | 52   | *   |
|  |            |      |     | @ GCE<br>(Listed As: Garcinia Cambogia Extract)  | 90045-23-1   | 52   | *   |
|  |            |      |     | @ Gemfibrozil (Peroxisome project)<br>(Listed As: Peroxisome project<br>(Gemfibrozil))     | 25812-30-0   | 53   | *   |
|  |            |      |     | @ Genistein (Endocrine disruptor)<br>(Listed As: Endocrine disruptor<br>(Genistein))       | 446-72-0     | 43   | 16  |
|  |            |      |     | @ Gentian violet<br>(Listed As: Hexamethyl-p-rosaniline chloride)                          | 548-62-9     | 44   | 16  |
|  |            |      |     | @ Gentian violet<br>(Listed As: Hexamethyl-p-rosaniline chloride)                          | 548-62-9     | 44   | 16  |
|  |            |      |     | Geranyl acetate  | 105-87-3     | 43   | 16  |
|  |            |      |     | Ginkgo biloba extract  | 90045-36-6   | 43   | 16  |
|  |            |      |     | Ginkgo biloba extract  | 90045-36-6   | 52   | *   |
|  |            |      |     | Ginseng  | 50647-08-0   | 43   | 16  |

@ Denotes common names--see following line for correct name.

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| Ginseng  | 50647-08-0   | 32   | 5   | 1,3,5,7,9,11-Hexabromocyclododecane  | 25637-99-4 | 32   | 5   |
| Glucosamine  | 3416-24-8    | 52   | *   | Hexachlorobenzene  | 118-74-1   | 32   | 5   |
| Glucosamine Hydrochloride + Chondroitin Sulfate  | GLUCOSCHONDN | 52   | *   | Hexachlorobenzene  | 118-74-1   | 34   | 14  |
| Glutaraldehyde   | 111-30-8     | 37   | 16  | @ 2,2'-4,4',5,5'-hexachlorobiphenyl (PCB 153) (Toxic equivalency factor evaluation)                                  | 35065-27-1 | 48   | 16  |
| Glutaraldehyde   | 111-30-8     | 44   | 16  | (Listed As: Toxic equivalency factor evaluation (PCB 153- 2,2'-4,4',5,5'-hexachlorobiphenyl))                        |            |      |     |
| Glycidamide  | 5694-00-8    | 44   | 16  | Hexachloro-1,3-butadiene   | 87-68-3    | 37   | 16  |
| Glycidol   | 556-52-5     | 44   | 16  | Hexachlorocyclopentadiene  | 77-47-4    | 44   | 16  |
| @ Glycidol (Transgenic model evaluation II) (Listed As: Transgenic model evaluation II (Glycidol)) | 556-52-5     | 35   | 16  | Hexachlorocyclopentadienyl-dibromocyclooctane  | 51936-55-1 | 32   | 5   |
| @ Glycol (Listed As: Polysorbate 80 (glycol))  | 9005-65-6    | 46   | 16  | 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin   | 57653-85-7 | 44   | 16  |
| Glyoxal  | 107-22-2     | 52   | *   | 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin   | 57653-85-7 | 44   | 16  |
| Glyphosate   | 1071-83-6    | 37   | 16  | Hexachloroethane   | 67-72-1    | 44   | 16  |
| Glyphosate   | 1071-83-6    | 37   | 16  | Hexachloroethane   | 67-72-1    | 44   | 16  |
| Goldenseal extract   | 84603-60-1   | 52   | *   | @ Hexachloroethane (Halogenated ethanes CS) (Listed As: Halogenated ethanes CS (Hexachloroethane))                   | 67-72-1    | 37   | 16  |
| Goldenseal root powder   | GOLDENSEALRT | 37   | 16  | Hexachlorophene  | 70-30-4    | 44   | 16  |
| Goldenseal root powder   | GOLDENSEALRT | 44   | 16  | 2,4-Hexadienal   | 142-83-6   | 37   | 16  |
| @ Green, Phthalocyanine (Listed As: C.I. Phthalocyanine green)                                     | 1328-53-6    | 51   | *   | 2,4-Hexadienal   | 142-83-6   | 44   | 16  |
| Green Tea Extract  | GREENTEAEXTR | 32   | 5   | Hexamethyl-p-rosaniline chloride   | 548-62-9   | 44   | 16  |
| Green Tea Extract  | GREENTEAEXTR | 44   | 16  | Hexamethyl-p-rosaniline chloride   | 548-62-9   | 44   | 16  |
| Guanazole  | 1455-77-2    | 49   | 17  | Hexanamide   | 628-02-4   | 49   | 17  |
| Guar gum   | 9000-30-0    | 44   | 16  | 1,6-Hexanediamine dihydrochloride  | 6055-52-3  | 37   | 16  |
| Gum Arabic   | 9000-01-5    | 44   | 16  | 1,6-Hexanediamine dihydrochloride  | 6055-52-3  | 37   | 16  |
| Gum Guggul Extract   | GUMGUGGULEXT | 34   | 14  | n-Hexane   | 110-54-3   | 37   | 16  |
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| Halogenated ethanes CS (1,2-Difluoro-1,1,2,2-tetrachloroethane)                                    | 76-12-0      | 37   | 16  | @ HMB (Listed As: 2-Hydroxy-4-methoxybenzophenone)   | 131-57-7   | 35   | 14  |
| Halogenated ethanes CS (Hexachloroethane)  | 67-72-1      | 37   | 16  | @ HMB (Listed As: 2-Hydroxy-4-methoxybenzophenone)   | 131-57-7   | 37   | 16  |
| Halogenated ethanes CS (Pentabromoethane)  | 75-95-6      | 37   | 16  | @ HMB (Listed As: 2-Hydroxy-4-methoxybenzophenone)   | 131-57-7   | 37   | 16  |
| Halogenated ethanes CS (Pentachloroethane)   | 76-01-7      | 37   | 16  | @ HMB (Listed As: 2-Hydroxy-4-methoxybenzophenone)   | 131-57-7   | 37   | 16  |
| Halogenated ethanes CS (1,1,1,2-Tetrabromoethane)  | 630-16-0     | 37   | 16  | @ HMB (Listed As: 2-Hydroxy-4-methoxybenzophenone)   | 131-57-7   | 37   | 16  |
| Halogenated ethanes CS (1,1,2,2-Tetrabromoethane)  | 79-27-6      | 37   | 16  | @ 4-HPR (Retinoid project 6) (Listed As: Retinoid project 6 (4-HPR))   | 65646-68-6 | 54   | *   |
| Halogenated ethanes CS (1,1,1,2-Tetrachloroethane)   | 630-20-6     | 37   | 16  | Hydrazobenzene   | 122-66-7   | 44   | 16  |
| Halogenated ethanes CS (1,1,2,2-Tetrachloroethane)   | 79-34-5      | 37   | 16  | Hydrochlorothiazide  | 58-93-5    | 44   | 16  |
| Halogenated ethanes CS (1,1,1-Trichloroethane)   | 71-55-6      | 37   | 16  | Hydroquinone   | 123-31-9   | 44   | 16  |
| Halogenated ethanes CS (1,1,1-Trichloro-2,2,2-trifluoroethane)                                     | 354-58-5     | 37   | 16  | Phenolic Benzotriazoles (3-(2H-Benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxybenzenepropanoic acid, octyl ester) | 84268-23-5 | 49   | 17  |
| @ Harness (R) (Listed As: Acetochlor)  | 34256-82-1   | 50   | *   | 2-Hydroxy-4-methoxybenzophenone  | 131-57-7   | 35   | 14  |
| HC Blue 1  | 2784-94-3    | 44   | 16  | 2-Hydroxy-4-methoxybenzophenone  | 131-57-7   | 37   | 16  |
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| HC Yellow 4  | 59820-43-8   | 44   | 16  | 2-Hydroxy-4-methoxybenzophenone  | 131-57-7   | 37   | 16  |
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| @ 8-Hydroxyquinoline (Transgenic model evaluation)                      | 148-24-3     | 55   | *   |
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| Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)                   | INIT/PROM    | 44   | 16  |
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| Manganese sulfate monohydrate   | 10034-96-5   | 44   | 16  | Metal Working Fluids: TRIM® VX  | TRIMVX       | 45   | 16  |
| D-Mannitol  | 69-65-8      | 44   | 16  | Methacrylonitrile   | 126-98-7     |      | 16  |
| @ Marijuana component<br>(Listed As: 1-trans-delta-9-Tetrahydrocannabinol)                                  | 1972-08-3    | 39   | 16  | Methacrylonitrile   | 126-98-7     | 45   | 16  |
| @ Marijuana component<br>(Listed As: 1-trans-delta-9-Tetrahydrocannabinol)                                  | 1972-08-3    | 47   | 16  | Methapyrilene hydrochloride   | 135-23-9     | 49   | 17  |
| Melamine  | 108-78-1     | 44   | 16  | Methapyrilene hydrochloride   | 135-23-9     | 53   | *   |
| Melamine + Cyanuric Acid combination  | MELCYANCOMB  | 33   | 5   | Methapyrilene hydrochloride   | 135-23-9     | 38   | 16  |
| Melamine + Cyanuric Acid combination  | MELCYANCOMB  | 53   | *   | Methdilazine  | 1982-37-2    | 53   | *   |
| Melamine + Cyanuric Acid combination  | MELCYANCOMB  | 33   | 5   | @ N-methololacrylamide (Transgenic model evaluation)<br>(Listed As: Transgenic model evaluation (N-Methylolacrylamide)) | 924-42-5     | 55   | *   |
| Melamine + Cyanuric Acid combination  | MELCYANCOMB  | 32   | 4   | @ N-methololacrylamide (Transgenic model evaluation)<br>(Listed As: Transgenic model evaluation (N-Methylolacrylamide)) | 924-42-5     | 55   | *   |
| Melatonin   | 73-31-4      | 53   | *   | Methotrexate  | 59-05-2      | 49   | 17  |
| Melatonin   | 73-31-4      | 53   | *   | 6-Methoxy-2-benzothiazolamine   | 1747-60-0    | 53   | *   |
| @ Melatonin + curcumin (Prevention 4)<br>(Listed As: Prevention 4 (Melatonin + curcumin))                   | MEL+CURCUMIN | 54   | *   | Methoxychlor  | 72-43-5      | 45   | 16  |
| @ Melatonin + indole-3-carbinol (Prevention 4)<br>(Listed As: Prevention 4 (Melatonin + indole-3-carbinol)) | MEL+INDOLCAR | 54   | *   | @ Methoxyethanol<br>(Listed As: NTP-88 diet study (EGMME))  | DIET88+EGMME | 53   | *   |
| @ Melatonin (Prevention 2)<br>(Listed As: Prevention 2 (Melatonin))   | 73-31-4      | 53   | *   | 2-Methoxy-4-nitroaniline  | 97-52-9      | 53   | *   |
| @ Melatonin (Prevention 3)<br>(Listed As: Prevention 3 (Melatonin))   | 73-31-4      | 53   | *   | 8-Methoxypsoralen   | 298-81-7     | 45   | 16  |
| Melphalan   | 148-82-3     | 49   | 17  | 4-(6-Methyl-2-benzothiazolyl)-benzenamine   | 92-36-4      | 53   | *   |
|   |              |      |     | alpha-Methylbenzyl alcohol  | 98-85-1      | 45   | 16  |
|   |              |      |     | Methyl bromide  | 74-83-9      | 38   | 16  |
|   |              |      |     | Methyl bromide  | 74-83-9      | 45   | 16  |
|   |              |      |     | Methyl bromide  | 74-83-9      | 38   | 16  |

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| CHEMICAL NAME  | CASRN       | PAGE | REF |
|--|-------------|------|-----|
| Methyl carbamate   | 598-55-0    | 45   | 16  |
| Methyl CCNU  | 13909-09-6  | 49   | 17  |
| @ Methyl chloroform<br>(Listed As: 1,1,1-Trichloroethane)  | 71-55-6     | 48   | 16  |
| @ Methyl chloroform<br>(Listed As: 1,1,1-Trichloroethane)  | 71-55-6     | 39   | 16  |
| Methyl coumarin  | 92-48-8     | 53   | *   |
| 4-Methylcyclohexanemethanol  | 34885-03-5  | 38   | 16  |
| Methyldopa sesquihydrate   | 41372-08-1  | 45   | 16  |
| 4,4'-Methylenebis(N,N-dimethyl)benzenamine   | 101-61-1    | 45   | 16  |
| Methylene bis(thiocyanate)   | 6317-18-6   | 38   | 16  |
| Methylene blue trihydrate  | 7220-79-3   | 53   | *   |
| Methylene blue trihydrate  | 7220-79-3   | 53   | *   |
| Methylene blue trihydrate  | 7220-79-3   | 45   | 16  |
| Methylene chloride   | 75-09-2     | 45   | 16  |
| 4,4'-Methylenedianiline dihydrochloride  | 13552-44-8  | 45   | 16  |
| Methyl ethyl ketone peroxide   | 1338-23-4   | 38   | 16  |
| Methyl ethyl ketoxime  | 96-29-7     | 38   | 16  |
| Methyleugenol  | 93-15-2     | 33   | 5   |
| Methyleugenol  | 93-15-2     | 38   | 16  |
| Methyleugenol  | 93-15-2     | 45   | 16  |
| Methyleugenol (TGMX rat liver evaluation)  | 93-15-2     | 53   | *   |
| 2-Methylimidazole  | 693-98-1    | 38   | 16  |
| 2-Methylimidazole  | 693-98-1    | 45   | 16  |
| 4-Methylimidazole  | 822-36-6    | 38   | 16  |
| 4-Methylimidazole  | 822-36-6    | 45   | 16  |
| Methyl isobutyl ketone   | 108-10-1    | 45   | 16  |
| Methyl isocyanate  | 624-83-9    | 49   | 17  |
| 6-Methylmercaptapurine ribonucleoside  | 342-69-8    | 49   | 17  |
| Methyl methacrylate  | 80-62-6     | 45   | 16  |
| 3-Methyl-6-methoxy-2-amino-benzothiazolium chloride  | EMTDP-76    | 53   | *   |
| 3-Methyl-6-methoxy-2-amino-benzothiazolium chloride  | EMTDP-76    | 53   | *   |
| 2-Methyl-1-nitroanthraquinone  | 129-15-7    | 45   | 16  |
| 2-Methyl-1-nitroanthraquinone  | 129-15-7    | 49   | 17  |
| @ 1-BUTANONE, 4-(METHYLNITROSOAMINO)-1-3-PYRIDINYL)- (9CI)<br>(Listed As: Ozone/NNK)   | OZONNNKCOMB | 46   | 16  |
| N-Methylolacrylamide   | 924-42-5    | 45   | 16  |
| Methyl parathion   | 298-00-0    | 45   | 16  |
| Methylphenidate hydrochloride  | 298-59-9    | 38   | 16  |
| Methylphenidate hydrochloride  | 298-59-9    | 45   | 16  |
| @ Methylphenidate hydrochloride<br>(Transgenic model evaluation)<br>(Listed As: Transgenic model evaluation (Methylphenidate hydrochloride)) | 298-59-9    | 55   | *   |
| alpha-Methylstyrene  | 98-83-9     | 53   | *   |
| alpha-Methylstyrene  | 98-83-9     | 45   | 16  |
| Methyl trans-styryl ketone   | 1896-62-4   | 53   | *   |
| Methyl trans-styryl ketone   | 1896-62-4   | 53   | *   |
| Methyl trans-styryl ketone   | 1896-62-4   | 45   | 16  |

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| Methyl vinyl ketone   | 78-94-4       | 53   | *   |
| @ N-Methyl-N'-nitro-N-nitrosoguanidine (MNNG)<br>(Listed As: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)) | INIT/PROM     | 44   | 16  |
| @ N-Methyl-N'-nitro-N-nitrosoguanidine (MNNG)<br>(Listed As: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)) | INIT/PROM     | 44   | 16  |
| @ N-Methyl-N'-nitro-N-nitrosoguanidine (MNNG)<br>(Listed As: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)) | INIT/PROM     | 44   | 16  |
| Mexacarbate   | 315-18-4      | 45   | 16  |
| Michler's ketone  | 90-94-8       | 45   | 16  |
| Microbiome  | MICROBIOME    | 33   | 6   |
| Microcystin-LA (TGMX)   | 96180-79-9    | 53   | *   |
| Microcystin-LR (TGMX)   | 101043-37-2   | 53   | *   |
| Microcystin mixture (TGMX)  | MICROCYSTINMX | 53   | *   |
| Milk thistle extract  | 84604-20-6    | 45   | 16  |
| Milk thistle extract  | 84604-20-6    | 33   | 5   |
| Mirex   | 2385-85-5     | 45   | 16  |
| Mitomycin C   | 50-07-7       | 49   | 17  |
| Molybdenum trioxide   | 1313-27-5     | 38   | 16  |
| Molybdenum trioxide   | 1313-27-5     | 45   | 16  |
| Monochloroacetic acid   | 79-11-8       | 45   | 16  |
| Monuron   | 150-68-5      | 45   | 16  |
| @ 8-MOP<br>(Listed As: 8-Methoxy psoralen)  | 298-81-7      | 45   | 16  |
| Mouse ageing study  | MOUSEAGE      | 49   | 17  |
| @ MVK<br>(Listed As: Methyl vinyl ketone)   | 78-94-4       | 53   | *   |
| @ MX<br>(Listed As: 3-Chloro-4-(dichloromethyl)-5-hydroxy-2(5H)-furanone (MX))                                      | 77439-76-0    | 51   | *   |
| beta-Myrcene  | 123-35-3      | 45   | 16  |
| Myristicin  | 607-91-0      | 34   | 14  |
| Nalidixic acid  | 389-08-2      | 45   | 16  |
| Nanoscale material (Fullerene-C60 1 micron)   | 99685-96-8    | 34   | 14  |
| Nanoscale material (Fullerene-C60 50 nanometers)  | 99685-96-8    | 34   | 14  |
| Nanoscale material (Quantum dots)   | QUANTUMDOTS   | 53   | *   |
| Nanoscale material (Rutile titanium dioxide)  | 1317-80-2     | 53   | *   |
| Nanoscale Silver  | 7440-22-4     | 53   | *   |
| Naphthalene   | 91-20-3       | 45   | 16  |
| Naphthalene   | 91-20-3       | 45   | 16  |
| 1,5-Naphthalenediamine  | 2243-62-1     | 45   | 16  |
| N-(1-Naphthyl)ethylenediamine dihydrochloride   | 1465-25-4     | 45   | 16  |
| Navy fuels JP-5   | 8008-20-6     | 45   | 16  |
| @ NBBS<br>(Listed As: N-Butylbenzenesulfonamide)  | 3622-84-2     | 32   | 5   |

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| Alphabetical Index of Chemicals with Reference Location         |             |      |     | Alphabetical Index of Chemicals with Reference Location   |              |      |     |
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| @ NBBS<br>(Listed As: N-Butylbenzenesulfonamide)                | 3622-84-2   | 32   | 3   | p-Nitrotoluene  | 99-99-0      | 53   | *   |
| @ NBPC<br>(Listed As: Ionic Liquid: N-Butylpyridinium Chloride) | 1124-64-7   | 37   | 16  | p-Nitrotoluene  | 99-99-0      | 38   | 16  |
| NCT/DERT standardization experiment (APAP & AMAP)               | NCTSTANDARD | 53   | *   | p-Nitrotoluene  | 99-99-0      | 46   | 16  |
| @ Nevirex (R)<br>(Listed As: Acetochlor)                        | 34256-82-1  | 50   | *   | 5-Nitro-o-toluidine   | 99-55-8      | 46   | 16  |
| Nickel (II) oxide   | 1313-99-1   | 45   | 16  | @ NNK<br>(Listed As: Ozone/NNK)   | OZONNNKCOMB  | 46   | 16  |
| Nickel sulfate hexahydrate                                      | 10101-97-0  | 45   | 16  | @ NTA<br>(Listed As: Nitrilotriacetic acid (NTA))   | 139-13-9     | 45   | 16  |
| Nickel subsulfide   | 12035-72-2  | 45   | 16  | NTP-2000 diet   | DIET2000     | 53   | *   |
| Nithiazide  | 139-94-6    | 45   | 16  | NTP 90 diet study   | DIET90       | 49   | 17  |
| Nitrilotriacetic acid (NTA)                                     | 139-13-9    | 45   | 16  | NTP 91/92 diet study  | DIET9192     | 49   | 17  |
| Nitrilotriacetic acid trisodium monohydrate                     | 18662-53-8  | 45   | 16  | NTP-88 diet study (EGMBE)   | DIET88+EGMBE | 53   | *   |
| Nitrilotriacetic acid trisodium monohydrate                     | 18662-53-8  | 45   | 16  | NTP-88 diet study (EGMEE)   | DIET88+EGMEE | 53   | *   |
| 5-Nitroacenaphthene   | 602-87-9    | 45   | 16  | NTP-88 diet study (EGMME)   | DIET88+EGMME | 53   | *   |
| 3-Nitro-p-acetophenetide  | 1777-84-0   | 45   | 16  | NTP-88 diet study (m-Nitrotoluene)  | DIET88+MNITR | 53   | *   |
| p-Nitroaniline  | 100-01-6    | 16   |     | NTP-88 diet study (o-Nitrotoluene)  | DIET88+ONITR | 53   | *   |
| p-Nitroaniline  | 100-01-6    | 45   | 16  | NTP-88 diet study (p-Nitrotoluene)  | DIET88+PNITR | 53   | *   |
| 5-Nitro-o-anisidine   | 99-59-2     | 45   | 16  | Ochratoxin A  | 303-47-9     | 46   | 16  |
| o-Nitroanisole  | 91-23-6     | 16   |     | Phenolic Benzotriazoles (Octrizole)   | 3147-75-9    | 33   | 5   |
| o-Nitroanisole  | 91-23-6     | 45   | 16  | Oleic acid diethanolamine condensate  | 93-83-4      | 46   | 16  |
| 4-Nitroanthranilic acid   | 619-17-0    | 45   | 16  | @ Oleic acid diethanolamine condensate (transgenic LECM)<br>(Listed As: Transgenic LECM (Oleic acid diethanolamine condensate)) | 93-83-4      | 55   | *   |
| Nitrobenzene  | 98-95-3     | 53   | *   | @ Oleic acid diethanolamine condensate (transgenic LECM)<br>(Listed As: Transgenic LECM (Oleic acid diethanolamine condensate)) | 93-83-4      | 55   | *   |
| 6-Nitrobenzimidazole  | 94-52-0     | 45   | 16  | @ Orange 10, C.I.Acids<br>(Listed As: C.I. Acid Orange 10)  | 1936-15-8    | 41   | 16  |
| m-Nitrobenzoic acid   | 121-92-6    | 53   | *   | @ Orange 3, C.I. Acid<br>(Listed As: C.I. Acid Orange 3)  | 6373-74-6    | 41   | 16  |
| p-Nitrobenzoic acid   | 62-23-7     | 38   | 16  | Oxazepam  | 604-75-1     | 46   | 16  |
| p-Nitrobenzoic acid   | 62-23-7     | 45   | 16  | Oxazepam  | 604-75-1     | 46   | 16  |
| Nitrofen  | 1836-75-5   | 45   | 16  | 4,4'-Oxydianiline   | 101-80-4     | 46   | 16  |
| Nitrofen  | 1836-75-5   | 45   | 16  | Oxymetholone  | 434-07-1     | 53   | *   |
| Nitrofurantoin  | 67-20-9     | 45   | 16  | Oxymetholone  | 434-07-1     | 46   | 16  |
| Nitrofurazone   | 59-87-0     | 45   | 16  | Oxytetracycline hydrochloride   | 2058-46-0    | 46   | 16  |
| Nitrofurazone   | 59-87-0     | 49   | 17  | Ozone   | 10028-15-6   | 46   | 16  |
| Nitromethane  | 75-52-5     | 45   | 16  | Ozone   | 10028-15-6   | 46   | 16  |
| 1-Nitronaphthalene  | 86-57-7     | 45   | 16  | Ozone/NNK   | OZONNNKCOMB  | 46   | 16  |
| p-Nitrophenol   | 100-02-7    | 45   | 16  | Parathion   | 56-38-2      | 46   | 16  |
| 2-Nitro-p-phenylenediamine                                      | 5307-14-2   | 45   | 16  | @ 2,5-PCADPE<br>(Listed As: 2,5-Pyridinedicarboxylic Acid, Dipropyl Ester)  | 136-45-8     | 54   | *   |
| 4-Nitro-o-phenylenediamine                                      | 99-56-9     | 45   | 16  | @ PCB 126/PCDF mixture (TEF transgenics)<br>(Listed As: TEF transgenics (PCB 126 / PCDF mixture))                               | TEFTGMIXTURE | 54   | *   |
| 5-(4-Nitrophenyl)-2,4-pentadien-1-al (NPPD)                     | 2608-48-2   | 53   | *   | @ PCB 126 (TEF transgenics)<br>(Listed As: TEF transgenics (PCB 126))   | 57465-28-8   | 54   | *   |
| 5-(4-Nitrophenyl)-2,4-pentadien-1-al (NPPD)                     | 2608-48-2   | 53   | *   |   |              |      |     |
| 3-Nitropropionic acid   | 504-88-1    | 45   | 16  |   |              |      |     |
| 1-Nitropyrene   | 5522-43-0   | 38   | 16  |   |              |      |     |
| N-Nitrosodiethanolamine   | 1116-54-7   | 53   | *   |   |              |      |     |
| N-Nitrosodimethylamine (TGMX rat liver evaluation)              | 62-75-9     | 53   | *   |   |              |      |     |
| N-Nitrosodiphenylamine  | 86-30-6     | 45   | 16  |   |              |      |     |
| p-Nitrosodiphenylamine  | 156-10-5    | 45   | 16  |   |              |      |     |
| beta-Nitrostyrene   | 102-96-5    | 45   | 16  |   |              |      |     |
| m-Nitrotoluene  | 99-08-1     | 38   | 16  |   |              |      |     |
| o-Nitrotoluene  | 88-72-2     | 38   | 16  |   |              |      |     |
| o-Nitrotoluene  | 88-72-2     | 38   | 16  |   |              |      |     |
| o-Nitrotoluene  | 88-72-2     | 45   | 16  |   |              |      |     |

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| @ PCB 126 (Toxic equivalency factor evaluation)<br>(Listed As: Toxic equivalency factor evaluation<br>((PCB 126) 3,3',4,4',5-pentachlorobiphenyl))     | 57465-28-8   | 48   | 16  | @ Pentachloroethane (Halogenated ethanes CS)<br>(Listed As: Halogenated ethanes CS<br>(Pentachloroethane)) | 76-01-7      | 37   | 16  |
| @ PCB 153 (Toxic equivalency factor evaluation)<br>(Listed As: Toxic equivalency factor evaluation (PCB 153- 2,2'-4,4',5,5'-hexachlorobiphenyl))       | 35065-27-1   | 48   | 16  | Pentachloronitrobenzene  | 82-68-8      | 46   | 16  |
| @ PCBTF<br>(Listed As: p-Chloro-a,a,a-trifluorotoluene)  | 98-56-6      | 34   | 12  | Pentachloronitrobenzene  | 82-68-8      | 46   | 16  |
| @ PCBTF<br>(Listed As: p-Chloro-a,a,a-trifluorotoluene)  | 98-56-6      | 41   | 16  | Pentachlorophenol, Dowicide EC-7   | 87-86-5      | 46   | 16  |
| @ PCBTF<br>(Listed As: p-Chloro-a,a,a-trifluorotoluene)  | 98-56-6      | 36   | 16  | Pentachlorophenol, DP-2  | 87-86-5      | 38   | 16  |
| @ PCBTF<br>(Listed As: p-Chloro-a,a,a-trifluorotoluene)  | 98-56-6      | 36   | 16  | Pentachlorophenol, purified  | 87-86-5      | 38   | 16  |
| @ PCB-118 (Toxic equivalency factor evaluation)<br>(Listed As: Toxic equivalency factor evaluation (PCB 118))  | 31508-00-6   | 47   | 16  | Pentachlorophenol, purified  | 87-86-5      | 46   | 16  |
| PCN 66/67 comparison study   | PCNCOMPARISN | 34   | 14  | Pentachlorophenol, technical   | 87-86-5      | 46   | 16  |
| @ PCTFT<br>(Listed As: p-Chloro-a,a,a-trifluorotoluene)  | 98-56-6      | 34   | 12  | @ Pentachlorophenol (Transgenic LECM)<br>(Listed As: Transgenic LECM<br>(Pentachlorophenol))               | 87-86-5      | 55   | *   |
| @ PCTFT<br>(Listed As: p-Chloro-a,a,a-trifluorotoluene)  | 98-56-6      | 41   | 16  | @ Pentachlorophenol (Transgenic LECM)<br>(Listed As: Transgenic LECM<br>(Pentachlorophenol))               | 87-86-5      | 55   | *   |
| @ PCTFT<br>(Listed As: p-Chloro-a,a,a-trifluorotoluene)  | 98-56-6      | 36   | 16  | Pentaerythritol tetranitrate   | 78-11-5      | 46   | 16  |
| @ PCTFT<br>(Listed As: p-Chloro-a,a,a-trifluorotoluene)  | 98-56-6      | 36   | 16  | Pentaerythritol triacrylate  | 3524-68-3    | 35   | 16  |
| @ PCTFT<br>(Listed As: p-Chloro-a,a,a-trifluorotoluene)  | 98-56-6      | 36   | 16  | Pentaerythritol triacrylate  | 3524-68-3    | 35   | 16  |
| @ PECTDF (TEF transgenics)<br>(Listed As: TEF transgenics (PECTDF))  | 57117-31-4   | 54   | *   | 2,3-Pentanedione   | 600-14-6     | 34   | 14  |
| Penicillin VK  | 132-98-9     | 46   | 16  | @ Perchloroethylene<br>(Listed As: Tetrachloroethylene)  | 127-18-4     | 47   | 16  |
| Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]   | 32534-81-9   | 46   | 16  | @ Perchloroethylene<br>(Listed As: Tetrachloroethylene)  | 127-18-4     | 47   | 16  |
| Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]   | 32534-81-9   | 53   | *   | Perfluorobutane sulfonate (PFBS)   | 375-73-5     | 38   | 16  |
| Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]   | 32534-81-9   | 53   | *   | Perfluorodecanoic Acid   | 335-76-2     | 38   | 16  |
| Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]   | 32534-81-9   | 33   | 5   | Perfluorohexane sulfonate potassium salt (PFHKSslt)  | 3871-99-6    | 38   | 16  |
| @ Pentabromoethane (Halogenated ethanes CS)<br>(Listed As: Halogenated ethanes CS (Pentabromoethane))  | 75-95-6      | 37   | 16  | Perfluorohexanoic acid (PFHXA)   | 307-24-4     | 38   | 16  |
| Pentachloroanisole   | 1825-21-4    | 46   | 16  | Perfluorononanoic Acid   | 375-95-1     | 38   | 16  |
| Pentachlorobenzene   | 608-93-5     | 38   | 16  | Perfluorooctane Sulfonate  | 1763-23-1    | 38   | 16  |
| 3,3,4,4,5-Pentachlorobiphenyl (PCB 126)  | 57465-28-8   | 53   | *   | Perfluorooctanoic Acid   | 335-67-1     | 35   | 14  |
| @ Pentachlorodibenzofuran (Toxic equivalency factor evaluation)<br>(Listed As: Toxic equivalency factor evaluation (PECTDF (Pentachlorodibenzofuran))) | 57117-31-4   | 47   | 16  | Perfluorooctanoic Acid   | 335-67-1     | 34   | 13  |
| Pentachloroethane  | 76-01-7      | 46   | 16  | Perfluorooctanoic Acid   | 335-67-1     | 53   | *   |
|  |              |      |     | Perfluorooctanoic Acid   | 335-67-1     | 38   | 16  |
|  |              |      |     | Perfluorooctanoic Acid   | 335-67-1     | 33   | 5   |
|  |              |      |     | Peroxisome project (Dibutyl phthalate)   | 84-74-2      | 53   | *   |
|  |              |      |     | Peroxisome project<br>(2,4-Dichlorophenoxyacetic acid)   | 94-75-7      | 53   | *   |
|  |              |      |     | Peroxisome project (Gemfibrozil)   | 25812-30-0   | 53   | *   |
|  |              |      |     | Peroxisome project (WY-14643)  | 50892-23-4   | 38   | 16  |
|  |              |      |     | Pesticide/fertilizer contamination--mixture 2  | PESTFERTMIX2 | 38   | 16  |
|  |              |      |     | Pesticide/fertilizer contamination--mixture 3  | PESTFERTMIX3 | 38   | 16  |
|  |              |      |     | @ PETA<br>(Listed As: Pentaerythritol triacrylate)   | 3524-68-3    | 35   | 16  |
|  |              |      |     | @ PETA<br>(Listed As: Pentaerythritol triacrylate)   | 3524-68-3    | 35   | 16  |
|  |              |      |     | @ PFDA<br>(Listed As: Perfluorodecanoic Acid)  | 335-76-2     | 38   | 16  |

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| Alphabetical Index of Chemicals with Reference Location   |            |      |     | Alphabetical Index of Chemicals with Reference Location                           |              |      |     |
|---|------------|------|-----|---|--------------|------|-----|
| CHEMICAL NAME   | CASRN      | PAGE | REF | CHEMICAL NAME   | CASRN        | PAGE | REF |
| @ PFNA<br>(Listed As: Perfluorononanoic Acid)   | 375-95-1   | 38   | 16  | Polybrominated biphenyl mixture (Firemaster FF-1)                                 | 67774-32-7   | 46   | 16  |
| @ PGTBE<br>(Listed As: Propylene glycol mono-t-butyl ether)   | 57018-52-7 | 46   | 16  | Polybrominated biphenyl mixture (Firemaster FF-1)                                 | 67774-32-7   | 46   | 16  |
| Phenazopyridine hydrochloride   | 136-40-3   | 46   | 16  | Polysorbate 80 (glycol)   | 9005-65-6    | 46   | 16  |
| Phenesterin   | 3546-10-9  | 46   | 16  | Polyurethane  | 9009-54-5    | 50   | 17  |
| Phenformin hydrochloride  | 834-28-6   | 46   | 16  | Polyvinyl alcohol   | 9002-89-5    | 46   | 16  |
| Phenobarbital   | 50-06-6    | 53   | *   | Prednisone  | 53-03-2      | 50   | 17  |
| Phenol  | 108-95-2   | 46   | 16  | Pregnancy Rate Comparison Study   | PREGRATECOMP | 53   | *   |
| Phenolic Benzotriazoles (2-(2H-Benzotriazol-2-yl)phenol)  | 10096-91-0 | 33   | 5   | Prevention 1 (Melatonin)  | 73-31-4      | 53   | *   |
| Phenolic Benzotriazoles (2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylpropyl)phenol)                                | 25973-55-1 | 33   | 5   | Prevention 2 (Melatonin)  | 73-31-4      | 53   | *   |
| Phenolic Benzotriazoles (2-(2H-benzotriazol-2-yl)-4,6-bis(1-methyl-1-phenylethyl)phenol)                            | 70321-86-7 | 33   | 5   | Prevention 2 (Silymarin)  | 65666-07-1   | 53   | *   |
| Phenolic Benzotriazoles (2-(5-Chloro-2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl)phenol)                        | 3864-99-1  | 33   | 5   | Prevention 2 (Silymarin + melatonin)  | SILYMARN+MEL | 53   | *   |
| Phenolic Benzotriazoles (Bumetrizole)   | 3896-11-5  | 33   | 5   | Prevention 3 (Melatonin)  | 73-31-4      | 53   | *   |
| Phenolphthalein   | 77-09-8    | 38   | 16  | Prevention 6 (low isoflavone soy protein powder)                                  | ISOFLAVSOYPT | 53   | *   |
| Phenolphthalein   | 77-09-8    | 46   | 16  | Prevention 4 (Curcumin)   | 458-37-7     | 53   | *   |
| @ Phenolphthalein (Transgenic model evaluation)<br>(Listed As: Transgenic model evaluation (Phenolphthalein))       | 77-09-8    | 55   | *   | Prevention 7 (feed controls)  | PREVENTION7  | 53   | *   |
| @ Phenolphthalein (Transgenic model evaluation II)<br>(Listed As: Transgenic model evaluation II (Phenolphthalein)) | 77-09-8    | 35   | 16  | Prevention 1 (Flaxseed oil)   | 8001-26-1    | 53   | *   |
| Phenoxybenzamine hydrochloride  | 63-92-3    | 46   | 16  | Prevention 1 (Flaxseed oil + melatonin)   | FLAXSEED+MEL | 54   | *   |
| Phenylbutazone  | 50-33-9    | 46   | 16  | Prevention 4 (Indole-3-carbinol)  | 700-06-1     | 54   | *   |
| p-Phenylenediamine dihydrochloride  | 624-18-0   | 46   | 16  | Prevention 6 (isoflavone concentrate)   | ISOFLAVCONCN | 54   | *   |
| Phenylephrine hydrochloride   | 61-76-7    | 46   | 16  | Prevention 4 (Melatonin)  | 73-31-4      | 54   | *   |
| 1-Phenyl-3-methyl-5-pyrazolone  | 89-25-8    | 46   | 16  | Prevention 5 (Melatonin)  | 73-31-4      | 54   | *   |
| N-Phenyl-2-naphthylamine  | 135-88-6   | 46   | 16  | Prevention 4 (Melatonin + curcumin)   | MEL+CURCUMIN | 54   | *   |
| o-Phenylphenol  | 90-43-7    | 46   | 16  | Prevention 4 (Melatonin + indole-3-carbinol)                                      | MEL+INDOLCAR | 54   | *   |
| N-Phenyl-p-phenylenediamine   | 101-54-2   | 46   | 16  | Prevention 10 (Soy isoflavone concentrate)  | PREVENTION10 | 54   | *   |
| 1-Phenyl-2-thiourea   | 103-85-5   | 46   | 16  | Primidone (primaclone)  | 125-33-7     | 46   | 16  |
| @ Phenytoin<br>(Listed As: 5,5-Diphenylhydantoin (phenytoin))   | 57-41-0    | 43   | 16  | Probenecid  | 57-66-9      | 46   | 16  |
| @ Phorbol myristate acetate<br>(Listed As: Tetradecanoyl phorbol acetate (TPA))                                     | 16561-29-8 | 54   | *   | Procarbazine hydrochloride  | 366-70-1     | 50   | 17  |
| Phosphamidon  | 13171-21-6 | 46   | 16  | Procarbazine hydrochloride  | 366-70-1     | 46   | 16  |
| Phosphine   | 7803-51-2  | 53   | *   | Proflavin hydrochloride   | 952-23-8     | 46   | 16  |
| Photodieldrin   | 13366-73-9 | 46   | 16  | Promethazine hydrochloride  | 58-33-3      | 38   | 16  |
| ortho-Phthalaldehyde  | 643-79-8   | 38   | 16  | Promethazine hydrochloride  | 58-33-3      | 46   | 16  |
| Phthalamide   | 88-96-0    | 46   | 16  | Propantheline bromide   | 50-34-0      | 54   | *   |
| Phthalic anhydride  | 85-44-9    | 46   | 16  | Propargyl alcohol   | 107-19-7     | 46   | 16  |
| Picloram  | 1918-02-1  | 46   | 16  | Propylene   | 115-07-1     | 46   | 16  |
| beta-Picoline   | 108-99-6   | 46   | 16  | @ Propylene dichloride<br>(Listed As: 1,2-Dichloropropane (propylene dichloride)) | 78-87-5      | 42   | 16  |
| Piperonyl butoxide  | 51-03-6    | 46   | 16  | Propylene glycol mono-t-butyl ether   | 57018-52-7   | 46   | 16  |
| Piperonyl sulfoxide   | 120-62-7   | 46   | 16  | Propylene glycol phenyl ether   | 770-35-4     | 38   | 16  |
| Pivalolactone   | 1955-45-9  | 46   | 16  | 1,2-Propylene oxide   | 75-56-9      | 46   | 16  |
|   |            |      |     | Propyl gallate  | 121-79-9     | 46   | 16  |
|   |            |      |     | Propyl-4-hydroxybenzoate  | 94-13-3      | 32   | 2   |
|   |            |      |     | Pulegone  | 89-82-7      | 33   | 5   |
|   |            |      |     | Pulegone  | 89-82-7      | 46   | 16  |
|   |            |      |     | Pyrazinamide  | 98-96-4      | 46   | 16  |
|   |            |      |     | Pyridine  | 110-86-1     | 54   | *   |
|   |            |      |     | Pyridine  | 110-86-1     | 46   | 16  |

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| Pyridine  | 110-86-1      | 46   | 16  | Retinoid project 3 (Arotinoid)  | 125533-88-2  | 54   | *   |
| 2,5-Pyridinedicarboxylic Acid, Dipropyl Ester   | 136-45-8      | 54   | *   | Retinoid project 5 (Arotinoid)  | 125533-88-2  | 54   | *   |
| @ Pyridine (Transgenic LECM)<br>(Listed As: Transgenic LECM<br>(Pyridine))                                | 110-86-1      | 55   | *   | Retinoid project 6 (4-HPR)  | 65646-68-6   | 54   | *   |
| @ Pyridine (Transgenic LECM)<br>(Listed As: Transgenic LECM<br>(Pyridine))                                | 110-86-1      | 55   | *   | All-trans-retinyl palmitate   | 79-81-2      | 47   | 16  |
| Pyrilamine  | 91-84-9       | 46   | 16  | Retroviral vectors  | RETROVIRVECT | 54   | *   |
| Pyrimethamine   | 58-14-0       | 46   | 16  | Retroviral vectors  | RETROVIRVECT | 54   | *   |
| Pyrogallol  | 87-66-1       | 46   | 16  | Retroviral vectors  | RETROVIRVECT | 54   | *   |
| QT drugs (bepriidil hydrochloride)  | 74764-40-2    | 54   | *   | Retroviral vectors  | RETROVIRVECT | 54   | *   |
| QT drugs (diltiazem hydrochloride)  | 33286-22-5    | 54   | *   | Rhodamine 6G  | 989-38-8     | 47   | 16  |
| QT drugs (Loratadine)   | 79794-75-5    | 54   | *   | @ Rhothane (TDE)<br>(Listed As:<br>Tetrachlorodiphenylethane)   | 72-54-8      | 47   | 16  |
| QT drugs (Lovastatin)   | 75330-75-5    | 54   | *   | Riddelliine   | 23246-96-0   | 38   | 16  |
| QT drugs (sotalol hydrochloride)  | 959-24-0      | 54   | *   | Riddelliine   | 23246-96-0   | 47   | 16  |
| QT drugs (terfenadine)  | 50679-08-8    | 54   | *   | @ Ritalin hydrochloride<br>(Listed As: Methylphenidate<br>hydrochloride)  | 298-59-9     | 38   | 16  |
| Quercetin   | 117-39-5      | 46   | 16  | @ Ritalin hydrochloride<br>(Listed As: Methylphenidate<br>hydrochloride)  | 298-59-9     | 45   | 16  |
| Rat feed study (TGMX rat liver evaluation)  | TGMXRALVFEEED | 54   | *   | Rotenone  | 83-79-4      | 50   | 17  |
| @ Red 114, C.I. Acid<br>(Listed As: C.I. Acid Red 114)  | 6459-94-5     | 41   | 16  | Rotenone  | 83-79-4      | 47   | 16  |
| @ Red 14, C.I. Acid<br>(Listed As: C.I. Acid Red 14)  | 3567-69-9     | 41   | 16  | @ Rotenone (Transgenic model<br>evaluation)<br>(Listed As: Transgenic model<br>evaluation (Rotenone))                         | 83-79-4      | 55   | *   |
| @ Red 9, C.I. Acid<br>(Listed As: C.I. Basic Red 9<br>Monohydrochloride)                                  | 569-61-9      | 41   | 16  | @ Rotenone (Transgenic model<br>evaluation)<br>(Listed As: Transgenic model<br>evaluation (Rotenone))                         | 83-79-4      | 55   | *   |
| @ Red 23, C.I. Pigment<br>(Listed As: C.I. Pigment Red<br>23)   | 6471-49-4     | 41   | 16  | @ Roundup@<br>(Listed As: Glyphosate)   | 1071-83-6    | 37   | 16  |
| @ Red 3, C.I. Pigment<br>(Listed As: C.I. Pigment Red<br>3)   | 2425-85-6     | 41   | 16  | @ Roundup@<br>(Listed As: Glyphosate)   | 1071-83-6    | 37   | 16  |
| @ Red Dog Mine Ore (Alaska)<br>(Listed As: Lead ores)   | LEADORES      | 52   | *   | Roxarsone   | 121-19-7     | 47   | 16  |
| @ Red 3, HC<br>(Listed As: HC Red 3)  | 2871-01-4     | 44   | 16  | Safflower oil   | 8001-23-8    | 47   | 16  |
| @ Red No. 9, D&C<br>(Listed As: D&C Red No. 9)  | 5160-02-1     | 42   | 16  | Salicylazosulfapyridine   | 599-79-1     | 38   | 16  |
| Reserpine   | 50-55-5       | 47   | 16  | Salicylazosulfapyridine   | 599-79-1     | 47   | 16  |
| Reserpine   | 50-55-5       | 54   | *   | @ Salicylic acid (alpha/beta<br>Hydroxy acids)<br>(Listed As: alpha/beta<br>Hydroxy acids (glycolic acid,<br>salicylic acid)) | HYDROXGLYSAL | 39   | 16  |
| Resorcinol  | 108-46-3      | 47   | 16  | Scopolamine hydrobromide<br>trihydrate  | 6533-68-2    | 38   | 16  |
| @ Resorcinol (Transgenic model<br>evaluation)<br>(Listed As: Transgenic model<br>evaluation (Resorcinol)) | 108-46-3      | 55   | *   | Scopolamine hydrobromide<br>trihydrate  | 6533-68-2    | 54   | *   |
| @ Resorcinol (Transgenic model<br>evaluation)<br>(Listed As: Transgenic model<br>evaluation (Resorcinol)) | 108-46-3      | 55   | *   | Scopolamine hydrobromide<br>trihydrate  | 6533-68-2    | 47   | 16  |
| Resveratrol   | 501-36-0      | 33   | 7   | @ Selenate, Sodium<br>(Listed As: Sodium selenate)  | 13410-01-0   | 38   | 16  |
| Retinoid project 2<br>(4-(Hydroxyphenyl)retinamide)   | 65646-68-6    | 54   | *   | @ Selenite, Sodium<br>(Listed As: Sodium selenite)  | 10102-18-8   | 38   | 16  |
| Retinoid project 1  | RETINOID1     | 54   | *   | Selenium sulfide  | 7446-34-6    | 47   | 16  |
| Retinoid project 3 (Retinol<br>acetate)   | 127-47-9      | 54   | *   | Selenium sulfide  | 7446-34-6    | 47   | 16  |
| Retinoid project 4<br>(4-(Hydroxyphenyl)retinamide)   | 65646-68-6    | 54   | *   | Selsun  | EMTDP-74     | 47   | 16  |
| Retinoid project 5<br>(4-(Hydroxyphenyl)retinamide)   | 65646-68-6    | 54   | *   | Senna (powdered)  | 8013-11-4    | 38   | 16  |
| Retinoid project 6 (Arotinoid)  | 125533-88-2   | 54   | *   | Senna (powdered)  | 8013-11-4    | 38   | 16  |
|   |               |      |     | Serotype 5 Adeno-associated Viral<br>Vector (rAAV5SCTLA4:Ig)  | RAV5SCTLA4IG | 34   | 14  |
|   |               |      |     | Serotype 2 Adeno-associated Viral<br>Vector rAAV2rapahEpo   | AAVIRAAVHEPO | 34   | 14  |

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| Serotype 2 Adeno-associated Viral Vector hAQPl (rAAV2hAQPl)               | AAV2HAQP1    | 38   | 16  | Styrene oxide   | 96-09-3    | 50   | 17  |
| Silica, crystalline - quartz  | 14808-60-7   | 54   | *   | Succinic anhydride  | 108-30-5   | 47   | 16  |
| Silica, crystalline - quartz  | 14808-60-7   | 54   | *   | Sulfallate  | 95-06-7    | 47   | 16  |
| Silica, crystalline - quartz  | 14808-60-7   | 54   | *   | Sulfamethazine  | 57-68-1    | 47   | 16  |
| @ Silymarin + melatonin (Prevention 2)                                    | SILYMARN+MEL | 53   | *   | Sulfamethazine  | 57-68-1    | 47   | 16  |
| (Listed As: Prevention 2 (Silymarin + melatonin))                         |              |      |     | Sulfisoxazole   | 127-69-5   | 47   | 16  |
| @ SILYMARIN (PREVENTION 2)  | 65666-07-1   | 53   | *   | Sulfolane   | 126-33-0   | 33   | 6   |
| (Listed As: Prevention 2 (Silymarin))                                     |              |      |     | Sulfolane   | 126-33-0   | 33   | 5   |
| Simazine  | 122-34-9     | 54   | *   | 3-Sulfolene   | 77-79-2    | 47   | 16  |
| Sodium azide  | 26628-22-8   | 47   | 16  | 4,4'-Sulfonyldianiline (Dapsone)  | 80-08-0    | 47   | 16  |
| @ Sodium bromate (Water disinfection mode)                                | 7789-38-0    | 35   | 16  | @ Sunett  | 55589-62-3 | 35   | 16  |
| (Listed As: Water disinfection model (Sodium bromate))                    |              |      |     | (Listed As: Transgenic Model Evaluation II (Acesulfame Potassium))          |            |      |     |
| @ Sodium bromate (Water disinfection mode)                                | 7789-38-0    | 35   | 16  | Talc  | 14807-96-6 | 47   | 16  |
| (Listed As: Water disinfection model (Sodium bromate))                    |              |      |     | Tara gum  | 39300-88-4 | 47   | 16  |
| @ Sodium bromate (Water disinfection mode)                                | 7789-38-0    | 35   | 16  | @ TBA   | 75-65-0    | 40   | 16  |
| (Listed As: Water disinfection model (Sodium bromate))                    |              |      |     | (Listed As: tert-Butyl alcohol)   |            |      |     |
| @ Sodium bromate (Water disinfection mode)                                | 7789-38-0    | 35   | 16  | @ TBA   | 75-65-0    | 36   | 16  |
| (Listed As: Water disinfection model (Sodium bromate))                    |              |      |     | (Listed As: tert-Butyl alcohol)   |            |      |     |
| @ Sodium chlorate (Water disinfection byproducts)                         | 7775-09-9    | 48   | 16  | @ TBBC  | 96-69-5    | 54   | *   |
| (Listed As: Water disinfection byproducts (Sodium chlorate))              |              |      |     | (Listed As: 4,4-Thiobis(6-tert-butyl-m-cresol))                             |            |      |     |
| Sodium cyanide  | 143-33-9     |      | 16  | @ TBBC  | 96-69-5    | 47   | 16  |
| Sodium dichromate dihydrate (VI)  | 7789-12-0    | 47   | 16  | (Listed As: 4,4-Thiobis(6-tert-butyl-m-cresol))                             |            |      |     |
| Sodium dichromate dihydrate (VI)  | 7789-12-0    | 38   | 16  | @ TBBDP   | 56803-37-3 | 51   | *   |
| Sodium diethyldithiocarbamate   | 148-18-5     | 47   | 16  | (Listed As: tert-Butylphenyl Diphenyl Phosphate)                            |            |      |     |
| Sodium Fluoride   | 7681-49-4    | 47   | 16  | @ TBE   | 79-27-6    | 37   | 16  |
| Sodium Fluoride   | 7681-49-4    | 50   | 17  | (Listed As: Halogenated ethanes CS (1,1,2,2-Tetrabromoethane))              |            |      |     |
| Sodium Metavanadate   | 13718-26-8   | 33   | 5   | @ TCAB  | 14047-09-7 | 54   | *   |
| Sodium nitrite  | 7632-00-0    | 38   | 16  | (Listed As: 3,3',4,4'-Tetrachloroazobenzene)                                |            |      |     |
| Sodium nitrite  | 7632-00-0    | 47   | 16  | @ TCAB  | 14047-09-7 | 38   | 16  |
| Sodium selenate   | 13410-01-0   | 38   | 16  | (Listed As: 3,3',4,4'-Tetrachloroazobenzene)                                |            |      |     |
| Sodium selenite   | 10102-18-8   | 38   | 16  | @ TCAB  | 14047-09-7 | 38   | 16  |
| Sodium thioglycolate  | 367-51-1     | 38   | 16  | (Listed As: 3,3',4,4'-Tetrachloroazobenzene)                                |            |      |     |
| Sodium Tungstate Dihydrate  | 10213-10-2   | 35   | 14  | @ TCAB  | 14047-09-7 | 47   | 16  |
| Sodium xylenesulfonate  | 1300-72-7    | 38   | 16  | (Listed As: 3,3',4,4'-Tetrachloroazobenzene)                                |            |      |     |
| Sodium xylenesulfonate  | 1300-72-7    | 47   | 16  | @ TCAB  | 14047-09-7 | 33   | 5   |
| @ Spy Dust  | 2608-48-2    | 53   | *   | (Listed As: 3,3',4,4'-Tetrachloroazobenzene)                                |            |      |     |
| (Listed As: 5-(4-Nitrophenyl)-2,4-pentadien-1-al (NPPD))                  |              |      |     | @ TCAOB   | 21232-47-3 | 38   | 16  |
| @ Spy Dust  | 2608-48-2    | 53   | *   | (Listed As: 3,3',4,4'-Tetrachloroazoxybenzene)                              |            |      |     |
| (Listed As: 5-(4-Nitrophenyl)-2,4-pentadien-1-al (NPPD))                  |              |      |     | @ TCDD  | 1746-01-6  | 55   | *   |
| Stachybotrys chartarum strain 1 mold (macrocytic trichothecene chemotype) | STACHYSTRN1  | 32   | 3   | (Listed As: Transgenic Model Evaluation (2,3,7,8-Tetrachlorodibenzodioxin)) |            |      |     |
| Stachybotrys chartarum strain 2 mold (atranone chemotype)                 | STACHYSTRN2  | 32   | 3   | @ TCDD  | 1746-01-6  | 55   | *   |
| Stannous chloride   | 7772-99-8    | 47   | 16  | (Listed As: Transgenic Model Evaluation (2,3,7,8-Tetrachlorodibenzodioxin)) |            |      |     |
| Stoddard solvent (type LIC)   | 64742-88-7   | 47   | 16  | @ TCDD  | 1746-01-6  | 55   | *   |
| Streptozotocin  | 18883-66-4   | 50   | 17  | (Listed As: Transgenic Model Evaluation (2,3,7,8-Tetrachlorodibenzodioxin)) |            |      |     |
| Styrene   | 100-42-5     | 47   | 16  | @ TCDD  | 1746-01-6  | 55   | *   |
| Styrene   | 100-42-5     | 54   | *   | (Listed As: Transgenic Model Evaluation (2,3,7,8-Tetrachlorodibenzodioxin)) |            |      |     |
| Styrene-acrylonitrile trimer  | SANTRIMER2   | 47   | 16  |   |            |      |     |

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| @ TCDD<br>(Listed As: Transgenic Model Evaluation (2,3,7,8-Tetrachlorodibenzodioxin))                   | 1746-01-6    | 56   | *   | @ 1,1,1,2-Tetrabromoethane<br>(Halogenated ethanes CS)<br>(Listed As: Halogenated ethanes CS (1,1,1,2-Tetrabromoethane))   | 630-16-0   | 37   | 16  |
| @ TCDD (TEF transgenics)<br>(Listed As: TEF transgenics (TCDD))   | 1746-01-6    | 54   | *   | Bis(2-ethylhexyl) tetrabromophthalate  | 26040-51-7 | 33   | 5   |
| @ TCDD (Toxic equivalency factor evaluation)<br>(Listed As: Toxic equivalency factor evaluation (TCDD)) | 1746-01-6    | 47   | 16  | @ 1,1,1,2-Tetrachloroethane<br>(Halogenated ethanes CS)<br>(Listed As: Halogenated ethanes CS (1,1,1,2-Tetrachloroethane)) | 630-20-6   | 37   | 16  |
| @ TCP<br>(Listed As: Tricresyl Phosphate)   | 1330-78-5    | 56   | *   | 3,3',4,4'-Tetrachloroazobenzene  | 14047-09-7 | 54   | *   |
| @ TCP<br>(Listed As: Tricresyl Phosphate)   | 1330-78-5    | 56   | *   | 3,3',4,4'-Tetrachloroazobenzene  | 14047-09-7 | 38   | 16  |
| @ TCP<br>(Listed As: Tricresyl Phosphate)   | 1330-78-5    | 48   | 16  | 3,3',4,4'-Tetrachloroazobenzene  | 14047-09-7 | 38   | 16  |
| @ TCP<br>(Listed As: Tricresyl Phosphate)   | 1330-78-5    | 48   | 16  | 3,3',4,4'-Tetrachloroazobenzene  | 14047-09-7 | 47   | 16  |
| @ TCP<br>(Listed As: Tricresyl Phosphate)   | 1330-78-5    | 48   | 16  | 3,3',4,4'-Tetrachloroazobenzene  | 14047-09-7 | 33   | 5   |
| @ TCP<br>(Listed As: Tricresyl Phosphate)   | 1330-78-5    | 48   | 16  | 3,3',4,4'-Tetrachloroazobenzene  | 14047-09-7 | 33   | 5   |
| @ TCP<br>(Listed As: Tricresyl Phosphate)   | 1330-78-5    | 48   | 16  | 3,3',4,4'-Tetrachloroazobenzene  | 14047-09-7 | 33   | 5   |
| @ TCPP<br>(Listed As: Tris(Chloropropyl)phosphate)  | 13674-84-5   | 33   | 5   | 3,3',4,4'-Tetrachloroazobenzene  | 14047-09-7 | 38   | 16  |
| @ TCPP<br>(Listed As: Tris(Chloropropyl)phosphate)  | 13674-84-5   | 33   | 7   | 3,3',4,4'-Tetrachloroazobenzene  | 14047-09-7 | 47   | 16  |
| Tebufenpyrad  | 119168-77-3  | 54   | *   | 3,3',4,4'-Tetrachloroazobenzene  | 14047-09-7 | 38   | 16  |
| Toxic equivalency factor evaluation (Binary mixture; PCB 126/PCB 153)                                   | TEFBINARYMIX | 47   | 16  | 3,3',4,4'-Tetrachloroazobenzene  | 14047-09-7 | 38   | 16  |
| Toxic equivalency factor evaluation (PECDF (Pentachlorodibenzofuran))                                   | 57117-31-4   | 47   | 16  | 3,3',4,4'-Tetrachloroazobenzene  | 14047-09-7 | 38   | 16  |
| Toxic equivalency factor evaluation (PCB 118)   | 31508-00-6   | 47   | 16  | 3,3',4,4'-Tetrachloroazobenzene  | 14047-09-7 | 47   | 16  |
| Toxic equivalency factor evaluation (PCB Mixture; PCB 126/PCB 118)                                      | TEFPCBMIX    | 47   | 16  | 3,3',4,4'-Tetrachloroazobenzene  | 14047-09-7 | 47   | 16  |
| Toxic equivalency factor evaluation (TCDD)  | 1746-01-6    | 47   | 16  | 3,3',4,4'-Tetrachloroazobenzene  | 14047-09-7 | 47   | 16  |
| TEF transgenics (PCB 126)   | 57465-28-8   | 54   | *   | 3,3',4,4'-Tetrachloroazobenzene  | 14047-09-7 | 47   | 16  |
| TEF transgenics (PCB 126 / PECDF mixture)   | TEFTGMIXTURE | 54   | *   | 3,3',4,4'-Tetrachloroazobenzene  | 14047-09-7 | 47   | 16  |
| TEF transgenics (PECDF)   | 57117-31-4   | 54   | *   | 3,3',4,4'-Tetrachloroazobenzene  | 14047-09-7 | 47   | 16  |
| TEF transgenics (TCDD)  | 1746-01-6    | 54   | *   | 3,3',4,4'-Tetrachloroazobenzene  | 14047-09-7 | 47   | 16  |
| @ TELONE II<br>(Listed As: 1,3-Dichloropropene (Telone II))   | 542-75-6     | 42   | 16  | 3,3',4,4'-Tetrachloroazobenzene  | 14047-09-7 | 47   | 16  |
| @ TEMIK<br>(Listed As: Aldicarb)  | 116-06-3     | 39   | 16  | 3,3',4,4'-Tetrachloroazobenzene  | 14047-09-7 | 47   | 16  |
| 2-ethylhexyl-2,3,4,5-tetrabromobenzoate   | 183658-27-7  | 33   | 5   | 3,3',4,4'-Tetrachloroazobenzene  | 14047-09-7 | 47   | 16  |
| Tetrabromobisphenol A   | 79-94-7      | 54   | *   | 3,3',4,4'-Tetrachloroazobenzene  | 14047-09-7 | 47   | 16  |
| Tetrabromobisphenol A   | 79-94-7      | 33   | 5   | 3,3',4,4'-Tetrachloroazobenzene  | 14047-09-7 | 47   | 16  |
| Tetrabromobisphenol A   | 79-94-7      | 47   | 16  | 3,3',4,4'-Tetrachloroazobenzene  | 14047-09-7 | 47   | 16  |
| Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)  | 21850-44-2   | 38   | 16  | 3,3',4,4'-Tetrachloroazobenzene  | 14047-09-7 | 47   | 16  |
| 2,2',4,4'-Tetrabromodiphenyl Ether  | 5436-43-1    | 54   | *   | 3,3',4,4'-Tetrachloroazobenzene  | 14047-09-7 | 47   | 16  |
| 2,2',4,4'-Tetrabromodiphenyl Ether  | 5436-43-1    | 54   | *   | 3,3',4,4'-Tetrachloroazobenzene  | 14047-09-7 | 47   | 16  |
| 2,2',4,4'-Tetrabromodiphenyl Ether  | 5436-43-1    | 33   | 5   | 3,3',4,4'-Tetrachloroazobenzene  | 14047-09-7 | 47   | 16  |

@ Denotes common names--see following line for correct name.

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| Tetrafluoroethylene  | 116-14-3   | 39   | 16  | Toluene   | 108-88-3     | 48   | 16  |
| Tetrafluoroethylene  | 116-14-3   | 47   | 16  | Toluene   | 108-88-3     | 39   | 16  |
| 1-trans-delta-9-Tetrahydrocannabinol   | 1972-08-3  | 39   | 16  | 2,6-Toluenediamine dihydrochloride (2,6-diaminotoluene dihydrochloride)                 | 15481-70-6   | 48   | 16  |
| 1-trans-delta-9-Tetrahydrocannabinol   | 1972-08-3  | 47   | 16  | 2,5-Toluenediamine sulfate  | 6369-59-1    | 48   | 16  |
| Tetrahydrofuran  | 109-99-9   | 54   | *   | 2,4- & 2,6-Toluene diisocyanate   | 26471-62-5   | 48   | 16  |
| Tetrahydrofuran  | 109-99-9   | 39   | 16  | p-Toluenesulfonamide  | 70-55-3      | 39   | 16  |
| Tetrahydrofuran  | 109-99-9   | 47   | 16  | o-Toluidine hydrochloride   | 636-21-5     | 48   | 16  |
| Tetrakis(hydroxymethyl)phosphonium chloride  | 124-64-1   | 47   | 16  | o-Toluidine hydrochloride   | 636-21-5     | 39   | 16  |
| Tetrakis(hydroxymethyl)phosphonium sulfate   | 55566-30-8 | 47   | 16  | p-Toluidine   | 106-49-0     | 54   | *   |
| Tetralin   | 119-64-2   | 47   | 16  | p-Tolylurea   | 622-51-5     | 50   | 17  |
| Tetranitromethane  | 509-14-8   | 47   | 16  | Toxaphene   | 8001-35-2    | 48   | 16  |
| @ TGMX rat liver evaluation) (Methyleugenol) (Listed As: Methyleugenol (TGMX rat liver evaluation))                  | 93-15-2    | 53   | *   | Toxic equivalency factor evaluation (Dioxin mixture)                                    | TEFDIOXINMIX | 48   | 16  |
| @ TGMX rat liver evaluation (N-Nitrosodimethylamine) (Listed As: N-Nitrosodimethylamine (TGMX rat liver evaluation)) | 62-75-9    | 53   | *   | Toxic equivalency factor evaluation (PCB 153- 2,2'-4,4',5,5'-hexachlorobiphenyl)        | 35065-27-1   | 48   | 16  |
| Thallium (I) sulfate   | 7446-18-6  | 33   | 6   | Toxic equivalency factor evaluation ((PCB 126) 3,3',4,4',5-pentachlorobiphenyl)         | 57465-28-8   | 48   | 16  |
| Theophylline   | 58-55-9    | 39   | 16  | Toxicogenomics study of allylbenzene & propenylbenzene class flavor constituents (TGMX) | TGMXFLAVCLAS | 54   | *   |
| Theophylline   | 58-55-9    | 39   | 16  | Transgenic LECM (1-Chloro-2-propanol, technical)  | 127-00-4     | 54   | *   |
| Theophylline   | 58-55-9    | 47   | 16  | Transgenic LECM (1-Chloro-2-propanol, technical)  | 127-00-4     | 54   | *   |
| 4,4-Thiobis(6-tert-butyl-m-cresol)   | 96-69-5    | 54   | *   | Transgenic LECM (Coconut oil acid diethanolamine condensate)                            | 68603-42-9   | 54   | *   |
| 4,4-Thiobis(6-tert-butyl-m-cresol)   | 96-69-5    | 47   | 16  | Transgenic LECM (Coconut oil acid diethanolamine condensate)                            | 68603-42-9   | 54   | *   |
| 4,4'-Thiodianiline   | 139-65-1   | 47   | 16  | Transgenic LECM (Furfuryl alcohol)  | 98-00-0      | 54   | *   |
| beta-Thioguanidine deoxyriboside   | 789-61-7   | 47   | 16  | Transgenic LECM (Lauric acid diethanolamine condensate)                                 | 120-40-1     | 54   | *   |
| Thiophene  | 110-02-1   | 54   | *   | Transgenic LECM (Lauric acid diethanolamine condensate)                                 | 120-40-1     | 54   | *   |
| @ thio-TEPA (Listed As: tris(Aziridinyl)-phosphine sulfide (Thio-TEPA))  | 52-24-4    | 48   | 16  | Transgenic LECM (Lauric acid diethanolamine condensate)                                 | 120-40-1     | 54   | *   |
| @ THPC (Listed As: Tetrakis(hydroxymethyl)phosphonium chloride)  | 124-64-1   | 47   | 16  | Transgenic LECM (Oleic acid diethanolamine condensate)                                  | 93-83-4      | 55   | *   |
| @ THPS (Listed As: Tetrakis(hydroxymethyl)phosphonium sulfate)   | 55566-30-8 | 47   | 16  | Transgenic LECM (Oleic acid diethanolamine condensate)                                  | 93-83-4      | 55   | *   |
| alpha-Thujone  | 546-80-5   | 39   | 16  | Transgenic LECM (Pentachlorophenol)   | 87-86-5      | 55   | *   |
| alpha/beta Thujone mixture   | 76231-76-0 | 33   | 5   | Transgenic LECM (Pentachlorophenol)   | 87-86-5      | 55   | *   |
| alpha/beta Thujone mixture   | 76231-76-0 | 39   | 16  | Transgenic LECM (Pyridine)  | 110-86-1     | 55   | *   |
| alpha/beta Thujone mixture   | 76231-76-0 | 47   | 16  | Transgenic LECM (Pyridine)  | 110-86-1     | 55   | *   |
| Titanium dioxide   | 13463-67-7 | 47   | 16  | Transgenic LECM (Tetradecanoyl phorbol acetate (TPA))                                   | 16561-29-8   | 55   | *   |
| Titanocene dichloride  | 1271-19-8  | 47   | 16  | Transgenic LEP (p-Anisidine hydrochloride)  | 20265-97-8   | 55   | *   |
| @ TMPTA (Listed As: Trimethylolpropane triacrylate)  | 15625-89-5 | 35   | 16  | Transgenic LEP (Cyclosporin A)  | 59865-13-3   | 55   | *   |
| @ TMPTA (Listed As: Trimethylolpropane triacrylate)  | 15625-89-5 | 35   | 16  | Transgenic LEP (Melphalan)  | 148-82-3     | 55   | *   |
| @ TMPTA (Listed As: Trimethylolpropane triacrylate)  | 15625-89-5 | 48   | 16  | Transgenic LEP (p-Cresidine)  | 120-71-8     | 55   | *   |
| D-alpha-Tocopheryl acetate   | 58-95-7    | 54   | *   | Transgenic LEP (Resorcinol)   | 108-46-3     | 55   | *   |
| Tolazamide   | 1156-19-0  | 47   | 16  | Transgenic LEP (Vinyl carbamate)  | 15805-73-9   | 55   | *   |
| Tolbutamide  | 64-77-7    | 48   | 16  | Transgenic model evaluation (p-Anisidine HCl)   | 20265-97-8   | 55   | *   |
|  |            |      |     | Transgenic model evaluation (Bromodichloromethane)                                      | 75-27-4      | 55   | *   |

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| Transgenic model evaluation (Bromodichloromethane)          | 75-27-4    | 55   | *   | Transgenic model evaluation (Phenolphthalein)  | 77-09-8    | 55   | *   |
| Transgenic model evaluation (Cyclophosphamide monohydrate)  | 6055-19-2  | 55   | *   | Transgenic model evaluation (Resorcinol)   | 108-46-3   | 55   | *   |
| Transgenic model evaluation (Cyclophosphamide monohydrate)  | 6055-19-2  | 55   | *   | Transgenic model evaluation (Resorcinol)   | 108-46-3   | 55   | *   |
| Transgenic model evaluation (Cyclosporin A)                 | 59865-13-3 | 55   | *   | Transgenic model evaluation (Rotenone)   | 83-79-4    | 55   | *   |
| Transgenic model evaluation (Cyclosporin A)                 | 59865-13-3 | 55   | *   | Transgenic model evaluation (Rotenone)   | 83-79-4    | 55   | *   |
| Transgenic model evaluation (DES)                           | 56-53-1    | 55   | *   | Transgenic Model Evaluation (2,3,7,8-Tetrachlorodibenzodioxin)   | 1746-01-6  | 55   | *   |
| Transgenic model evaluation (DES)                           | 56-53-1    | 55   | *   | Transgenic Model Evaluation (2,3,7,8-Tetrachlorodibenzodioxin)   | 1746-01-6  | 55   | *   |
| Transgenic model evaluation (DES)                           | 56-53-1    | 55   | *   | Transgenic Model Evaluation (2,3,7,8-Tetrachlorodibenzodioxin)   | 1746-01-6  | 55   | *   |
| Transgenic model evaluation (DES)                           | 56-53-1    | 55   | *   | Transgenic Model Evaluation (2,3,7,8-Tetrachlorodibenzodioxin)   | 1746-01-6  | 56   | *   |
| Transgenic model evaluation (2,4-Diaminotoluene)            | 95-80-7    | 55   | *   | Transgenic model evaluation (2,3,7,8-Tetrachlorodibenzodioxin)   | 1746-01-6  | 55   | *   |
| Transgenic model evaluation (2,4-Diaminotoluene)            | 95-80-7    | 55   | *   | Transgenic Model Evaluation (2,3,7,8-Tetrachlorodibenzodioxin)   | 1746-01-6  | 56   | *   |
| Transgenic model evaluation (2,6-Diaminotoluene 2HCl)       | 15481-70-6 | 55   | *   | Transgenic model evaluation (2,3,7,8-Tetrachlorodibenzodioxin)   | 1746-01-6  | 56   | *   |
| Transgenic model evaluation (2,6-Diaminotoluene 2HCl)       | 15481-70-6 | 55   | *   | Transgenic model evaluation (WY-14643)   | 50892-23-4 | 56   | *   |
| Transgenic model evaluation (Di(2-ethylhexyl) phthalate)    | 117-81-7   | 55   | *   | Transgenic model evaluation (WY-14643)   | 50892-23-4 | 56   | *   |
| Transgenic model evaluation (Di(2-ethylhexyl) phthalate)    | 117-81-7   | 55   | *   | Transgenic LECM (diethanolamine)   | 111-42-2   | 56   | *   |
| Transgenic model evaluation (Ethinyl estradiol)             | 57-63-6    | 55   | *   | Tremolite  | 14567-73-8 | 48   | 16  |
| Transgenic model evaluation (Ethinyl estradiol)             | 57-63-6    | 55   | *   | Triamterene  | 396-01-0   | 56   | *   |
| Transgenic model evaluation (8-Hydroxyquinoline)            | 148-24-3   | 55   | *   | Triamterene  | 396-01-0   | 48   | 16  |
| Transgenic model evaluation (8-Hydroxyquinoline)            | 148-24-3   | 55   | *   | Tribromomethane  | 75-25-2    | 48   | 16  |
| Transgenic Model Evaluation II (Acesulfame Potassium)       | 55589-62-3 | 35   | 16  | Tricaprylin  | 538-23-8   | 48   | 16  |
| Transgenic model evaluation II (Aspartame)                  | 22839-47-0 | 35   | 16  | Trichlorfon  | 52-68-6    | 56   | *   |
| Transgenic model evaluation II (Aspartame)                  | 22839-47-0 | 35   | 16  | 1,1,1-Trichloroethane  | 71-55-6    | 48   | 16  |
| Transgenic model evaluation II (Benzene)                    | 71-43-2    | 35   | 16  | 1,1,1-Trichloroethane  | 71-55-6    | 39   | 16  |
| Transgenic model evaluation II (Glycidol)                   | 556-52-5   | 35   | 16  | 1,1,2-Trichloroethane  | 79-00-5    | 48   | 16  |
| Transgenic model evaluation II (Phenolphthalein)            | 77-09-8    | 35   | 16  | @ 1,1,1-Trichloroethane (Halogenated ethanes CS) (Listed As: Halogenated ethanes CS (1,1,1-Trichloroethane))                                 | 71-55-6    | 37   | 16  |
| Transgenic model evaluation (Melphalan)                     | 148-82-3   | 55   | *   | Trichloroethylene  | 79-01-6    | 48   | 16  |
| Transgenic model evaluation (Melphalan)                     | 148-82-3   | 55   | *   | Trichloroethylene  | 79-01-6    | 48   | 16  |
| Transgenic model evaluation (Melphalan)                     | 148-82-3   | 55   | *   | Trichloroethylene  | 79-01-6    | 48   | 16  |
| Transgenic model evaluation (Melphalan)                     | 148-82-3   | 55   | *   | Trichloroethylene  | 79-01-6    | 56   | *   |
| Transgenic model evaluation (N-Methylolacrylamide)          | 924-42-5   | 55   | *   | Trichloroethylene  | 79-01-6    | 56   | *   |
| Transgenic model evaluation (N-Methylolacrylamide)          | 924-42-5   | 55   | *   | Trichlorofluoromethane   | 75-69-4    | 48   | 16  |
| Transgenic model evaluation (Methylphenidate hydrochloride) | 298-59-9   | 55   | *   | 2,4,6-Trichlorophenol  | 88-06-2    | 48   | 16  |
|   |            |      |     | 1,2,3-Trichloropropane   | 96-18-4    | 56   | *   |
|   |            |      |     | 1,2,3-Trichloropropane   | 96-18-4    | 48   | 16  |
|   |            |      |     | @ 1,1,1-Trichloro-2,2,2-trifluoroethane (Halogenated ethanes CS) (Listed As: Halogenated ethanes CS (1,1,1-Trichloro-2,2,2-trifluoroethane)) | 354-58-5   | 37   | 16  |
|   |            |      |     | Triclocarban   | 101-20-2   | 32   | 2   |
|   |            |      |     | Triclosan  | 3380-34-5  | 56   | *   |
|   |            |      |     | Triclosan  | 3380-34-5  | 48   | 16  |
|   |            |      |     | Triclosan  | 3380-34-5  | 33   | 5   |
|   |            |      |     | Tricresyl Phosphate  | 1330-78-5  | 56   | *   |

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| Trimellitic anhydride                                   | 552-30-7    | 56   | *   |
| Trimellitic anhydride                                   | 552-30-7    | 56   | *   |
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| 1,2,4-trimethylbenzene                                  | 95-63-6     | 33   | 5   |
| Trimethylolpropane triacrylate                          | 15625-89-5  | 35   | 16  |
| Trimethylolpropane triacrylate                          | 15625-89-5  | 35   | 16  |
| Trimethylolpropane triacrylate                          | 15625-89-5  | 48   | 16  |
| Trimethylphosphate                                      | 512-56-1    | 48   | 16  |
| Trimethylsilyldiazomethane (TMSD)                       | 18107-18-1  | 33   | 5   |
| Trimethylthiourea                                       | 2489-77-2   | 48   | 16  |
| 2,4,7-Trinitro-fluoren-9-one                            | 129-79-3    | 39   | 16  |
| 2,4,7-Trinitro-fluoren-9-one                            | 129-79-3    | 39   | 16  |
| Tripelennamine hydrochloride                            | 154-69-8    | 56   | *   |
| Triphenyl Phosphate                                     | 115-86-6    | 56   | *   |
| Triphenyl Phosphate                                     | 115-86-6    | 33   | 5   |
| Triphenyltin hydroxide                                  | 76-87-9     | 48   | 16  |
| Tripolidine   | 486-12-4    | 48   | 16  |
| tris(Aziridiny)-phosphine sulfide (Thio-TEPA)           | 52-24-4     | 48   | 16  |
| Tris(2-Chloroethyl) Phosphate                           | 115-96-8    | 48   | 16  |
| Tris(Chloropropyl)phosphate                             | 13674-84-5  | 33   | 5   |
| Tris(Chloropropyl)phosphate                             | 13674-84-5  | 33   | 7   |
| tris(2,3-Dibromopropyl) phosphate                       | 126-72-7    | 48   | 16  |
| tris(2-Ethylhexyl)phosphate                             | 78-42-2     | 48   | 16  |
| Trisodium ethylenediaminetetraacetate trihydrate (EDTA) | 150-38-9    | 48   | 16  |
| L-Tryptophan  | 73-22-3     | 48   | 16  |
| Turmeric, oleoresin (curcumin)                          | 8024-37-1   | 48   | 16  |
| Uracil mustard  | 66-75-1     | 50   | 17  |
| Urethane  | 51-79-6     | 39   | 16  |
| Urethane  | 51-79-6     | 48   | 16  |
| Urethane + ethanol (combination)                        | URETHCOMB   | 39   | 16  |
| Urethane + ethanol (combination)                        | URETHCOMB   | 48   | 16  |
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| Valerian (Valeriana officinalis L.) root extract        | 8057-49-6   | 33   | 5   |
| Vanadium pentoxide                                      | 1314-62-1   | 39   | 16  |
| Vanadium pentoxide                                      | 1314-62-1   | 48   | 16  |
| Vanadyl sulfate   | 27774-13-6  | 33   | 5   |
| Vinblastine   | 865-21-4    | 50   | 17  |
| Vincamine   | 1617-90-9   | 56   | *   |
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| @ Vitamin E Acetate (Listed As: D-alpha-Tocopheryl acetate) | 58-95-7      | 54   | *   |
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| Water disinfection byproducts (Bromodichloromethane)        | 75-27-4      | 56   | *   |
| Water disinfection byproducts (Bromodichloromethane)        | 75-27-4      | 56   | *   |
| Water disinfection byproducts (Bromodichloromethane)        | 75-27-4      | 48   | 16  |
| Water disinfection byproducts (Dibromoacetic acid)          | 631-64-1     | 56   | *   |
| Water disinfection byproducts (Dibromoacetic acid)          | 631-64-1     | 48   | 16  |
| Water disinfection byproducts (Dibromoacetonitrile)         | 3252-43-5    | 48   | 16  |
| Water disinfection byproducts (Dichloroacetic acid)         | 79-43-6      | 56   | *   |
| Water disinfection byproducts (Sodium chlorate)             | 7775-09-9    | 48   | 16  |
| Water disinfection model (Bromodichloromethane)             | 75-27-4      | 35   | 16  |
| Water disinfection model (Bromodichloromethane)             | 75-27-4      | 35   | 16  |
| Water disinfection model (Bromodichloromethane)             | 75-27-4      | 35   | 16  |
| Water disinfection model (Bromodichloromethane)             | 75-27-4      | 35   | 16  |
| Water disinfection model (Bromodichloromethane)             | 75-27-4      | 35   | 16  |
| Water disinfection model (Dichloroacetic acid)              | 79-43-6      | 35   | 16  |
| Water disinfection model (Dichloroacetic acid)              | 79-43-6      | 35   | 16  |
| Water disinfection model (Dichloroacetic acid)              | 79-43-6      | 35   | 16  |
| Water disinfection model (Sodium bromate)                   | 7789-38-0    | 35   | 16  |
| Water disinfection model (Sodium bromate)                   | 7789-38-0    | 35   | 16  |
| Water disinfection model (Sodium bromate)                   | 7789-38-0    | 35   | 16  |
| Welding fumes   | STEELWELDFUM | 56   | *   |
| @ West Fork Mine Ore (Missouri) (Listed As: Lead ores)      | LEADORES     | 52   | *   |
| Wollastonite calcium silicates                              | 13983-17-0   | 50   | 17  |

@ Denotes common names--see following line for correct name.

\* See Appendix, Short-Term Studies for Which Toxicity Technical Reports Were Not Prepared

## Alphabetical Index of Chemicals with Reference Location

| CHEMICAL NAME   | CASRN      | PAGE | REF |
|---|------------|------|-----|
| @ WY-14643 (Peroxisome project)<br>(Listed As: Peroxisome project<br>(WY-14643))                      | 50892-23-4 | 38   | 16  |
| @ WY-14643 (Transgenic model<br>evaluation)<br>(Listed As: Transgenic model<br>evaluation (WY-14643)) | 50892-23-4 | 56   | *   |
| @ WY-14643 (Transgenic model<br>evaluation)<br>(Listed As: Transgenic model<br>evaluation (WY-14643)) | 50892-23-4 | 56   | *   |
| Wyeth 14,643 (WY)   | 50892-23-4 | 39   | 16  |
| Wyeth 14,643 (WY)   | 50892-23-4 | 56   | *   |
| Xylenes (mixed)   | 1330-20-7  | 48   | 16  |
| 2,6-Xylidine  | 87-62-7    | 48   | 16  |
| @ Yellow 12, C.I. Pigment<br>(Listed As: Diarylanilide<br>yellow)                                     | 6358-85-6  | 42   | 16  |
| @ Yellow 3, C.I. Disperse<br>(Listed As: C.I. Disperse<br>Yellow 3)                                   | 2832-40-8  | 41   | 16  |
| @ Yellow 14, C.I. Solvent<br>(Listed As: C.I. Solvent<br>Yellow 14)                                   | 842-07-9   | 41   | 16  |
| @ Yellow 4, C.I. Vat<br>(Listed As: C.I. Vat Yellow 4)  | 128-66-5   | 41   | 16  |
| @ Yellow 4, HC<br>(Listed As: HC Yellow 4)  | 59820-43-8 | 44   | 16  |
| @ Yellow No. 11, D & C<br>(Listed As: D&C Yellow No. 11)  | 8003-22-3  | 36   | 16  |
| @ Yellow No. 11, D & C<br>(Listed As: D&C Yellow No. 11)  | 8003-22-3  | 42   | 16  |
| @ Yellow No. 6, FD & C<br>(Listed As: FD & C Yellow No.<br>6)   | 2783-94-0  | 43   | 16  |
| Zearalenone   | 17924-92-4 | 48   | 16  |
| Zinc Carbonate, Basic   | 5263-02-5  | 48   | 16  |
| Ziram   | 137-30-4   | 49   | 16  |

@ Denotes common names--see following line for correct name.

\* See Appendix, Short-Term Studies for Which Toxicity Technical Reports Were Not Prepared

## Ref No. 1

## Chemicals Selected for General Toxicology Study by the NTP

| CHEMICAL NAME                   | PRIMARY CAS USE NUMBER | USE       |
|---------------------------------|------------------------|-----------|
| 2-Ethylhexyl Diphenyl Phosphate | 1241-94-7              |           |
| Microcystin LR                  | 101043-37-2            | ENVH/NATL |

## Ref No. 2

## Chemicals with Project Leader Assigned/Study in Design

| CHEMICAL NAME                              | PRIMARY CAS USE NUMBER | USE       |
|--|------------------------|-----------|
| Acetaminophen (4-hydroxyacetanilide)       | 103-90-2               | DYE/SYN   |
| Aluminum fluoride                          | 7784-18-1              | ENVH/SYN  |
| Deoxynivalenol                             | 51481-10-8             | COMT/NATL |
| Dong quai (Angelica sinensis root extract) | 299184-76-2            | DIET      |
| Libby Amphibole 2007                       | LA2007                 | MINL/NATL |
| MIXED XYLENES                              | MIXEDXYLENES           | FUEL/N/S  |
| Propyl-4-hydroxybenzoate                   | 94-13-3                | FOOD/SYN  |
| Triclocarban                               | 101-20-2               | PEST/SYN  |

## Ref No. 3

## Chemicals Approved for Toxicology/Carcinogenesis Study

| CHEMICAL NAME  | PRIMARY CAS USE NUMBER | USE       |
|--|------------------------|-----------|
| Alternaria alternata mold  | ALTERNARIA             | NATL/NATL |
| N-Butylbenzenesulfonamide  | 3622-84-2              | PLAS/SYN  |
| Damp Building Mold Mixture   | DAMPBLDGMOLD           | NATL/NATL |
| Fluorotelomer Alcohol 8+2  | 678-39-7               | SYN       |
| Stachybotrys chartarum strain 1 mold (macrocyclic trichothecene chemotype) | STACHYSTRN1            | NATL/NATL |
| Stachybotrys chartarum strain 2 mold (atranone chemotype)                  | STACHYSTRN2            | NATL/NATL |
| Water Damaged Building Mold Mixture  | H2ODAMAGEMLD           | NATL/NATL |

## Ref No. 4

## Chemicals Assigned to Laboratory for Toxicology/Carcinogenesis Study

| CHEMICAL NAME                        | PRIMARY CAS USE NUMBER | ROUTE     | SPECIES |
|--------------------------------------|------------------------|-----------|---------|
| Air-Lung Interface Model             | AIRLUNGINT             |           |         |
| Melamine + Cyanuric Acid combination | MELCYANCOMB            | ADHS/SYN  | GAV     |
| Tungsten Suboxide Fibers             | TUNGSTENFIB            | ELEC/NATL |         |

## Ref No. 5

## Short-Term Exposure Studies in Progress

| CHEMICAL NAME   | PRIMARY CAS USE NUMBER | ROUTE     | SPECIES | RPD D*  | SUBCHR START DATE | SUBCHR START DATE |
|---|------------------------|-----------|---------|---------|-------------------|-------------------|
| Acrylamide  | 79-06-1                | COMT/SYN  | GAV     | HSD     | 04/17A            |                   |
| Aflatoxin B1 (TGMX)   | 1162-65-8              | LABC/NATL | FEED    | R2      |                   |                   |
| Phenolic Benzotriazoles (2-(2H-Benzotriazol-2-yl)-4-tert-butylphenol) | 3147-76-0              | ADHS      | GAV     | HSD     | 02/16A            |                   |
| Bisphenol AF  | 1478-61-1              |           | GAV     | HSD     | 04/17A            |                   |
| 1,2-Bis(2,4,6-tribromophenoxy)ethane                                  | 37853-59-1             | FLAM      | GAV     | HSDE    | 11/16A            |                   |
| Black Cohosh  | 84776-26-1             | DIET/NATL | GAV     | M3 HSD  |                   |                   |
| Brominated Vegetable Oil  | 8016-94-2              |           |         | HSD     |                   | 06/17A            |
| N-Butylbenzenesulfonamide   | 3622-84-2              | PLAS/SYN  | FEED    | M22     | 02/14A            |                   |
| Coumarin  | 91-64-5                | PHAR/NATL | GAV     | HSD     | 04/17A            |                   |
| Decabromodiphenyl Ether   | 1163-19-5              | FLAM      | GAV     | HSDE    | 11/16A            |                   |
| Di(2-ethylhexyl) Phthalate  | 117-81-7               | PLAS/SYN  | GAV     | HSD     | 03/17A            |                   |
| 2,2'-Dimorpholinodiethyl Ether  | 6425-39-4              | IND/SYN   | GAV     | M22     | 04/16A            |                   |
| Phenolic Benzotriazoles (Drometrizole)                                | 2440-22-4              | IND       | GAV     | HSD     | 02/16A            |                   |
| 1,2-bis(pentabromophenyl)ethane                                       | 84852-53-9             | FLAM/SYN  | GAV     | HSDE    | 11/16A            |                   |
| Ethinyl estradiol   | 57-63-6                | PHAR/N/S  | GAV     | HSD     | 04/17A            |                   |
| 2-ethyltoluene  | 611-14-3               | LABC      | INHAL   | HSD M22 | 04/18A            |                   |
| Fenofibrate   | 49562-28-9             | PHAR/SYN  | GAV     | HSD     | 03/17A            |                   |
| Furan   | 110-00-9               | DTRG/N/S  | GAV     | HSD     | 07/17A            |                   |
| Ginseng   | 50647-08-0             | DIET/NATL | GAV     | HSD     | 07/17A            |                   |
| Green Tea Extract   | GREENTEAEXTR           | DIET/NATL | GAV     | FSAS    | 01/16A            |                   |
| 1,3,5,7,9,11-Hexabromocyclododecane                                   | 25637-99-4             | FLAM      | GAV     | HSDE    | 11/16A            |                   |
| Hexachlorobenzene   | 118-74-1               | FUNG/SYN  | GAV     | HSD     | 04/17A            |                   |
| Hexachlorocyclopentadienyl-dibromocyclooctane                         | 51936-55-1             | FLAM/SYN  | GAV     | HSDE    | 11/16A            |                   |
| Isopropylated Phenol Phosphate  | 68937-41-7             | FLAM/SYN  | FEED    | M22     | 12/14A            |                   |
| 1020 Long Multiwalled Carbon Nanotube                                 | L-MWNT-1020            |           | INHAL   | M22 HSD | 02/16A            |                   |

\* RPD D = REPEATED DOSE; SUBCHR = SUBCHRONIC; (A)CTUAL OR (E)STIMATED DATES



## Ref No. 5

## Short-Term Exposure Studies in Progress

| CHEMICAL NAME  | PRIMARY CAS NUMBER | USE       | ROUTE | SPECIES       | RPD D*<br>START DATE | SUBCHR<br>START DATE |
|--|--------------------|-----------|-------|---------------|----------------------|----------------------|
| Melamine + Cyanuric Acid combination   | MELCYANOMB         | ADHS/SYN  | GAV   | RC            |                      | 07/11A               |
| Melamine + Cyanuric Acid combination   | MELCYANOMB         | ADHS/SYN  | GAV   | RC            |                      | 10/15A               |
| Methyleugenol  | 93-15-2            | FOOD/NATL | GAV   | HSD           | 04/17A               |                      |
| Milk thistle extract   | 84604-20-6         | DIET/NATL | GAV   | HSD           | 07/17A               |                      |
| Phenolic Benzotriazoles (Octrizole)  | 3147-75-9          | IND       | GAV   | HSD           | 01/16A               |                      |
| Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]                                   | 32534-81-9         | FLAM/SYN  | GAV   | HSD           | 11/16A               |                      |
| Perfluorooctanoic Acid   | 335-67-1           | ELEC/SYN  | GAV   | HSD           | 04/17A               |                      |
| Phenolic Benzotriazoles (2-(2H-Benzotriazol-2-yl)phenol)                                     | 10096-91-0         | ADHS      | GAV   | HSD           | 01/16A               |                      |
| Phenolic Benzotriazoles (2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylpropyl)phenol)         | 25973-55-1         | PEST      | GAV   | HSD           | 01/16A               |                      |
| Phenolic Benzotriazoles (2-(2H-benzotriazol-2-yl)-4,6-bis(1-methyl-1-phenylethyl)phenol)     | 70321-86-7         | IND       | GAV   | HSD           | 01/16A               |                      |
| Phenolic Benzotriazoles (2-(5-Chloro-2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl)phenol) | 3864-99-1          | IND       | GAV   | HSD           | 01/16A               |                      |
| Phenolic Benzotriazoles (Bumetrizole)  | 3896-11-5          | IND       | GAV   | HSD           | 02/16A               |                      |
| Pulegone   | 89-82-7            | DIET/N/S  | GAV   | HSD           | 03/17A               |                      |
| Sodium Metavanadate  | 13718-26-8         | COMT/SYN  | WATER | M3 HSD        | 10/14A               | 01/16A               |
| Sulfolane  | 126-33-0           | ADHS      | WATER | M3 HSD        |                      |                      |
| 2-ethylhexyl-2,3,4,5-tetrabromobenzoate  | 183658-27-7        | ENVH/SYN  | GAV   | HSDE          | 11/16A               |                      |
| Tetrabromobisphenol A  | 79-94-7            | FLAM      | GAV   | HSD           | 11/16A               |                      |
| 2,2',4,4'-Tetrabromodiphenyl Ether   | 5436-43-1          | ENVH/SYN  | GAV   | HSDE          | 11/16A               |                      |
| Bis(2-ethylhexyl) tetrabromophthalate  | 26040-51-7         | PLAS/SYN  | GAV   | HSDE          | 11/16A               |                      |
| 3,3',4,4'-Tetrachloroazobenzene  | 14047-09-7         | PEST/SYN  | GAV   | HSD           | 11/16A               |                      |
| alpha/beta Thujone mixture   | 76231-76-0         | COSM/NATL | GAV   | HSD           | 07/17A               |                      |
| Triclosan  | 3380-34-5          | COSM/SYN  | GAV   | HSD           | 11/16A               |                      |
| 1,2,4-trimethylbenzene   | 95-63-6            | DYE       | INHAL | HSD M22       |                      | 01/17A               |
| Trimethylsilyldiazomethane (TMSD)  | 18107-18-1         | REAG/SYN  | INHAL | M3 HSD        | 10/15A               |                      |
| Triphenyl Phosphate  | 115-86-6           | FLAM/SYN  | FEED  | M22           | 02/15A               |                      |
| Tris(Chloropropyl)phosphate  | 13674-84-5         | PEST      | GAV   | HSD           | 03/17A               |                      |
| Valerian (Valeriana officinalis L.) root extract   | 8057-49-6          | DIET/NATL | GAV   | M22           |                      | 09/15A               |
| Vanadyl sulfate  | 27774-13-6         | DYE       | WATER | M3 HSD<br>M22 | 09/14A               | 04/16A               |
| Water disinfection byproducts (Bromodichloroacetic Acid)                                     | 71133-14-7         | ENVH/NATL | GAV   | HSD           | 04/17A               |                      |

\* RPD D = REPEATED DOSE; SUBCHR = SUBCHRONIC; (A)CTUAL OR (E)STIMATED DATES

## Ref No. 6

## Short-Term Studies Completed: In Review for Further Evaluation

| CHEMICAL NAME              | PRIMARY CAS NUMBER | USE       | ROUTE | SPECIES       | RPD D*<br>START DATE | SUBCHR<br>START DATE |
|----------------------------|--------------------|-----------|-------|---------------|----------------------|----------------------|
| Aspergillus fumigatus mold | ASPERGILLUS        | NATL/NATL | INHAL | M3            |                      | 09/15A               |
| Black Cohosh               | 84776-26-1         | DIET/NATL |       |               |                      |                      |
| Microbiome                 | MICROBIOME         | NATL      | N/A   |               | 07/15A               |                      |
| Sulfolane                  | 126-33-0           | ADHS      | GAV   | M22 O6<br>HSD |                      | 01/14A               |
| Thallium (I) sulfate       | 7446-18-6          | LABC      | WATER | M3 HSD        | 02/18A               |                      |

\* RPD D = REPEATED DOSE; SUBCHR = SUBCHRONIC; (A)CTUAL OR (E)STIMATED DATES

## Ref No. 7

## Long-Term Exposure Studies in Progress

| CHEMICAL NAME                                     | PRIMARY CAS NUMBER | USE       | ROUTE | SPECIES         | CHRONIC<br>START DATE |
|---|--------------------|-----------|-------|-----------------|-----------------------|
| alpha-Pinene                                      | 80-56-8            | SOLV/SYN  | INHAL | M3 HSD          | 02/15A                |
| Insertional Mutagenesis - Definitive Vector Study | INSERTMUT3         | N/A       | IV    | M1              |                       |
| Resveratrol                                       | 501-36-0           | CMOT/NATL | GAV   | RE RD M3<br>HSD | 05/12A                |
| Tris(Chloropropyl)phosphate                       | 13674-84-5         | PEST      | FEED  | M3 HSD          | 10/11A                |

## Ref No. 8

## Long-Term Exposure Studies: Laboratory Study Report in Preparation

| CHEMICAL NAME                                     | PRIMARY CAS USE NUMBER | ROUTE | SPECIES |
|---|------------------------|-------|---------|
| Insertional Mutagenesis - Definitive Vector Study | INSERTMUT3 N/A         | IV    | M1      |

## Ref No. 10

## Long-Term Exposure Studies: Pathology Quality Assessment in Progress

| CHEMICAL NAME              | PRIMARY CAS USE NUMBER | ROUTE | SPECIES |
|----------------------------|------------------------|-------|---------|
| Di(2-ethylhexyl) Phthalate | 117-81-7 PLAS/SYN      | FEED  | HSD     |

## Ref No. 11

## Long-Term Exposure Studies: Pathology Working Group Scheduled

| CHEMICAL NAME                          | PRIMARY CAS USE NUMBER | ROUTE | SPECIES | RPT No. |
|--|------------------------|-------|---------|---------|
| Aging Cohort Study: 12951/Sv1mJ mouse  | MOUSEPHENO1 N/A        | N/A   | MR      |         |
| Aging Cohort Study: B6C3F1J mouse      | MOUSEPHENO6 N/A        | N/A   | 63      |         |
| Aging Cohort Study: C3H/HeJ mouse      | MOUSEPHENO3 N/A        | N/A   | M15     |         |
| Aging Cohort Study: C57/BL/6J mouse    | MOUSEPHENO4 N/A        | N/A   | MZ      |         |
| Aging Cohort Study: CAST/EiJ mouse     | MOUSEPHENO5 N/A        | N/A   | M11     |         |
| Aging Cohort Study: NZO/HiLtJ mouse    | MOUSEPHENO10 N/A       | N/A   | 61      |         |
| Aging Cohort Study: PWK/PhJ mouse      | MOUSEPHENO8 N/A        | N/A   | 62      |         |
| Aging Cohort Study: WSB/EiJ mouse      | MOUSEPHENO9 N/A        | N/A   | M14     |         |
| Aging Cohort Study: A/J mouse          | MOUSEPHENO2 N/A        | N/A   | MF      |         |
| Aging Cohort Study: NOD. B10Sn-H2(b)/J | MOUSEPHENO7 N/A        | N/A   | 60      |         |

## Ref No. 12

## Short-Term Exposure Studies Scheduled for Peer Review

| Short-Term Studies<br>CHEMICAL NAME | PRIMARY CAS USE NUMBER | ROUTE | SPECIES | RPT No. |
|-------------------------------------|------------------------|-------|---------|---------|
| p-Chloro-a,a,a-trifluorotoluene     | 98-56-6 SYN            | INHAL | M3 HSD  | TR-594  |

## Ref No. 13

## Long-Term Exposure Studies Scheduled for Peer Review

| CHEMICAL NAME          | PRIMARY CAS USE NUMBER | ROUTE | SPECIES | RPT No. |
|------------------------|------------------------|-------|---------|---------|
| Perfluorooctanoic Acid | 335-67-1 ELEC/SYN      | FEED  | HSD     |         |

## Ref No. 14

## Post Peer Review Technical Reports in Progress

| Short-Term Studies<br>CHEMICAL NAME                       | PRIMARY CAS USE NUMBER | ROUTE | SPECIES   | RPT No. |
|---|------------------------|-------|-----------|---------|
| Abrasive Blasting Agents: Blasting Sand                   | BLASTINGSAND IND/NATL  | INHAL | RD HSD    |         |
| Abrasive Blasting Agents: Specular Hematite               | HEMATITESPEC IND/NATL  | INHAL | RD HSD    |         |
| Acetoin   | 513-86-0 FOOD/N/S      | INHAL | RE M3     |         |
| Gum Guggul Extract  | GUMGUGGULEXT DIET/NATL | GAV   | M3 HSD    |         |
| Hexachlorobenzene   | 118-74-1 FUNG/SYN      | GAV   | HSD       |         |
| 1020 Long Multiwalled Carbon Nanotube                     | L-MWNT-1020            | INHAL | M3 HSD    |         |
| Myristicin  | 607-91-0 FOOD/NATL     | GAV   | RD M3     |         |
| Nanoscale material (Fullerene-C60 1 micron)               | 99685-96-8 SYN         | INHAL | RE M3     |         |
| Nanoscale material (Fullerene-C60 50 nanometers)          | 99685-96-8 SYN         | INHAL | RE M3     |         |
| PCN 66/67 comparison study                                | PCNCOMPARISN SYN       | GAV   | R8 R2 HSD |         |
| 2,3-Pentanedione  | 600-14-6 FOOD/SYN      | INHAL | RE M3     | C08010  |
| Serotype 5 Adeno-associated Viral Vector (rAAV5SCTLA4:Ig) | RAV5SCTLA4IG N/A       | ID/CN | MW        |         |
| Serotype 2 Adeno-associated Viral Vector rAAV2rapahEpo    | AAVIRAAVHEPO NATL      | ID/CN | MW        |         |
| Usnea Lichen  | USNEALICHEN DIET/NATL  | FEED  | RC MV     |         |
| (+)-Usnic Acid  | 7562-61-0 NATL/NATL    | FEED  | RC MV     |         |

Ref No. 14

## Post Peer Review Technical Reports in Progress

## Long-Term Studies

| CHEMICAL NAME                   | PRIMARY CAS USE NUMBER | ROUTE     | SPECIES | RPT No.  | CARCINOGEN CODES |    |    |      |    |
|---------------------------------|------------------------|-----------|---------|----------|------------------|----|----|------|----|
|                                 |                        |           |         |          | MR               | FR | MM | FM** |    |
| Bisphenol A                     | 80-05-7                | INTR/SYN  | GAV     | 44       | RR-09            |    |    |      |    |
| 2,3-Butanedione                 | 431-03-8               | FOOD/N/S  | INHAL   | RE M3    | C08010           | SE | SE | NE   | NE |
| Cell Phone Radiation: CDMA      | CELLPRADCDMA           | N/A       | WB      | M22 HSDE | C20105           |    |    |      |    |
| Cell Phone Radiation: GSM       | CELLPRADGSM            | N/A       | WB      | HSDE M22 | C20105           |    |    |      |    |
| Furan                           | 110-00-9               | DTRG/N/S  | GAV     | RC       | C10119           |    |    |      |    |
| 2-Hydroxy-4-methoxybenzophenone | 131-57-7               | COSM/SYN  | FEED    | M3 HSD   |                  |    |    |      |    |
| Perfluorooctanoic Acid          | 335-67-1               | ELEC/SYN  | FEED    | HSD      |                  |    |    |      |    |
| Sodium Tungstate Dihydrate      | 10213-10-2             | FLAM/NATL | WATER   | M3 HSD   |                  |    |    |      |    |

\*+ MR = Male Rat, FR = Female Rat, MM = Male Mice, FM = Female Mice.  
See Page 4 for explanation of Carcinogen Codes

\*\* The NCI and the NTP Technical Reports for the following chemicals are available from the National Technical Information Service (NTIS), Department of Commerce, 5285 Port Royal Road, Springfield, Virginia 22161, Phone: (703) 605-6000 or 1-800-553-6847 (rush orders only). Technical reports numbered 220 or higher may also be available from Central Data Management (CDM) (TELEPHONE: 919-541-3419; FAX: (301) 480-3210; Mail Drop K2-05, NIEHS, P. O. BOX 12233, Research Triangle Park, NC USA 27709; EMAIL: CDM@NIEHS.NIH.GOV) . All requests containing checks, money orders, or purchase orders should be sent to NTIS.

Ref No. 16

## Printed Long-Term and Short-Term Study Reports

## Genetically Modified Model Studies

| CHEMICAL NAME   | PRIMARY CAS USE NUMBER | ROUTE    | SPECIES | RPT No. | NTIS ** NUMBER | CARCINOGEN CODES |    |    |      |  |
|---|------------------------|----------|---------|---------|----------------|------------------|----|----|------|--|
|   |                        |          |         |         |                | MR               | FR | MM | FM** |  |
| Allyl bromide   | 106-95-6               | COSM/SYN | GAV     | M1 MD   | GMM-07         | PB2008-109736    |    |    |      |  |
| Allyl bromide   | 106-95-6               | COSM/SYN | GAV     | MI ME   | GMM-07         | PB2008-109736    |    |    |      |  |
| Dicyclohexylcarbodiimide                              | 538-75-0               | IND/SYN  | SP      | R2 M3   | GMM-09         | PB2008-109738    |    |    |      |  |
| Dicyclohexylcarbodiimide                              | 538-75-0               | IND/SYN  | SP      | ME      | GMM-09         | PB2008-109738    |    |    |      |  |
| Dicyclohexylcarbodiimide                              | 538-75-0               | IND/SYN  | SP      | MD      | GMM-09         | PB2008-109738    |    |    |      |  |
| Diisopropylcarbodiimide                               | 693-13-0               | INTR/SYN | SP      | ME      | GMM-10         | PB2008-109739    |    |    |      |  |
| Diisopropylcarbodiimide                               | 693-13-0               | INTR/SYN | SP      | MD      | GMM-10         | PB2008-109739    |    |    |      |  |
| Pentaerythritol triacrylate                           | 3524-68-3              | PLAS     | SP      | R2 M3   | GMM-04         | PB2006-105551    |    |    |      |  |
| Pentaerythritol triacrylate                           | 3524-68-3              | PLAS     | SP      | ME      | GMM-04         | PB2006-105551    |    |    |      |  |
| Transgenic Model Evaluation II (Acesulfame Potassium) | 55589-62-3             | FOOD     | FEED    | ME MD   | GMM-02         | PB2006-103440    |    |    |      |  |
| Transgenic model evaluation II (Aspartame)            | 22839-47-0             | FOOD/SYN | FEED    | MD ME   | GMM-01         | PB2006-103430    |    |    |      |  |
| Transgenic model evaluation II (Aspartame)            | 22839-47-0             | FOOD/SYN | FEED    | MQ      | GMM-01         | PB2006-103430    |    |    |      |  |
| Transgenic model evaluation II (Benzene)              | 71-43-2                | DYE/N/S  | GAV     | MQ      | GMM-08         | PB2008-109737    |    |    |      |  |
| Transgenic model evaluation II (Glycidol)             | 556-52-5               | COSM/SYN | GAV     | MQ      | GMM-13         | PB2008-109742    |    |    |      |  |
| Transgenic model evaluation II (Phenolphthalein)      | 77-09-8                | DYE/SYN  | FEED    | MQ      | GMM-12         | PB2008-109741    |    |    |      |  |
| Trimethylolpropane triacrylate                        | 15625-89-5             | ADHS     | SP      | R2 M3   | GMM-03         | PB2006-105550    |    |    |      |  |
| Trimethylolpropane triacrylate                        | 15625-89-5             | ADHS     | SP      | ME      | GMM-03         | PB2006-105550    |    |    |      |  |
| Water disinfection model (Bromodichloromethane)       | 75-27-4                | FLAM/SYN | WATER   | MD      | GMM-05         | PB2008-109734    |    |    |      |  |
| Water disinfection model (Bromodichloromethane)       | 75-27-4                | FLAM/SYN | SP      | MI ME   | GMM-05         | PB2008-109734    |    |    |      |  |
| Water disinfection model (Bromodichloromethane)       | 75-27-4                | FLAM/SYN | GAV     | MD      | GMM-05         | PB2008-109734    |    |    |      |  |
| Water disinfection model (Bromodichloromethane)       | 75-27-4                | FLAM/SYN | WATER   | ME      | GMM-05         | PB2008-109734    |    |    |      |  |
| Water disinfection model (Bromodichloromethane)       | 75-27-4                | FLAM/SYN | GAV     | ME      | GMM-05         | PB2008-109734    |    |    |      |  |
| Water disinfection model (Dichloroacetic acid)        | 79-43-6                | GERM/SYN | WATER   | MD      | GMM-11         | PB2008-109740    |    |    |      |  |
| Water disinfection model (Dichloroacetic acid)        | 79-43-6                | GERM/SYN | SP      | MI ME   | GMM-11         | PB2008-109740    |    |    |      |  |
| Water disinfection model (Dichloroacetic acid)        | 79-43-6                | GERM/SYN | WATER   | ME      | GMM-11         | PB2008-109740    |    |    |      |  |
| Water disinfection model (Sodium bromate)             | 7789-38-0              | COSM/SYN | WATER   | MD      | GMM-06         | PB2008-109735    |    |    |      |  |
| Water disinfection model (Sodium bromate)             | 7789-38-0              | COSM/SYN | SP      | ME MI   | GMM-06         | PB2008-109735    |    |    |      |  |
| Water disinfection model (Sodium bromate)             | 7789-38-0              | COSM/SYN | WATER   | ME      | GMM-06         | PB2008-109735    |    |    |      |  |

\*+ MR = Male Rat, FR = Female Rat, MM = Male Mice, FM = Female Mice.  
See Page 4 for explanation of Carcinogen Codes

\*\* The NCI and the NTP Technical Reports for the following chemicals are available from the National Technical Information Service (NTIS), Department of Commerce, 5285 Port Royal Road, Springfield, Virginia 22161, Phone: (703) 605-6000 or 1-800-553-6847 (rush orders only). Technical reports numbered 220 or higher may also be available from Central Data Management (CDM) (TELEPHONE: 919-541-3419; FAX: (301) 480-3210; Mail Drop K2-05, NIEHS, P. O. BOX 12233, Research Triangle Park, NC USA 27709; EMAIL: CDM@NIEHS.NIH.GOV) . All requests containing checks, money orders, or purchase orders should be sent to NTIS.

Ref No. 16

## Printed Long-Term and Short-Term Study Reports

## Short-Term Studies

CARCINOGEN  
CODES  
MR FR MM FM\*\*

| CHEMICAL NAME                                     | PRIMARY CAS USE<br>NUMBER | ROUTE     | SPECIES | RPT No. | NTIS **<br>NUMBER |  |  |                |
|---|---------------------------|-----------|---------|---------|-------------------|--|--|----------------|
| Acetone   | 67-64-1                   | COSM/SYN  | WATER   | R2 M3   | TOX-03            |  |  | PB91-185975    |
| Acrolein  | 107-02-8                  | PLAS/SYN  | GAV     | R2 M3   | TOX-48            |  |  | PB2008-109744  |
| Allyl acetate                                     | 591-87-7                  | INTR/SYN  | GAV     | R2 M3   | TOX-48            |  |  | PB2008-109744  |
| Allyl alcohol                                     | 107-18-6                  | INTR/SYN  | GAV     | R2 M3   | TOX-48            |  |  | PB2008-109744  |
| alpha-Pinene                                      | 80-56-8                   | SOLV/SYN  | INHAL   | R2 M3   | TOX-81            |  |  | PB2016104182   |
| 5-Amino-o-cresol                                  | 2835-95-2                 | COSM/SYN  | SP      | RD M3   | TOX-89            |  |  | PB2016101129   |
| Antimony potassium tartrate                       | 28300-74-5                | PEST/SYN  | IP/IJ   | R2 M3   | TOX-11            |  |  | PB93-149714    |
| AZT + Isoniazid (AIDS Initiative)                 | AZTISONIAZID              | PHAR/SYN  | GAV     | M3      | AIDS-08           |  |  | PB2012-102038  |
| AZT + Pyrazinamide combination (AIDS Initiative)  | AZTZINAMIDE               | PHAR/SYN  | GAV     | M3      | AIDS-05           |  |  | PB2000-103878  |
| AZT + Rifampin (AIDS Initiative)                  | AZTRIFAMPIN               | PHAR      | GAV     | M3      | AIDS-06           |  |  | PB2001-104503  |
| Barium chloride dihydrate                         | 10326-27-9                | DYE/NATL  | WATER   | R2 M3   | TR-432            |  |  | PB94-214178    |
| Benzethonium chloride                             | 121-54-0                  | COSM/SYN  | SP      | R2 M3   | TR-438            |  |  | PB96-162300    |
| Benzophenone                                      | 119-61-9                  | PHAR/SYN  | FEED    | R2 M3   | TOX-61            |  |  | PB2000-106659  |
| o-Benzyl-p-chlorophenol                           | 120-32-1                  | GERM/SYN  | GAV     | R2 M3   | TR-424            |  |  | PB94-214202    |
| Benzyltrimethyl ammonium chloride                 | 56-93-9                   | DYE       | GAV     | R2 M3   | TOX-57            |  |  | PB2000-104839  |
| Benzyltrimethyl ammonium chloride                 | 56-93-9                   | DYE       | GAV     | R2 M3   | TOX-57            |  |  | PB2000-104839  |
| 2,2-bis(Bromomethyl)-1,3-propanediol              | 3296-90-0                 | FLAM/SYN  | FEED    | R2 M3   | TR-452            |  |  | PB97-120224    |
| Bisphenol A                                       | 80-05-7                   | INTR/SYN  | GAV     | HSD     |                   |  |  |                |
| Bisphenol A                                       | 80-05-7                   | INTR/SYN  | GAV     | 44      | C10034 (3)        |  |  |                |
| Black newsprint ink                               | EMTDP-75                  | DYE/SYN   | SP      | R2 M2   | TOX-17            |  |  | PB93-131910    |
| beta-Bromo-beta-nitrostyrene                      | 7166-19-0                 | PEST/SYN  | GAV     | R2 M3   | TOX-40            |  |  | PB95-144531    |
| Butanal oxime                                     | 110-69-0                  | PNT/SYN   | WATER   | R2 M3   | TOX-69            |  |  | PB2004-104001  |
| 1,4-Butanediol                                    | 110-63-4                  | INTR/SYN  | FEED    | R2      | TOX-54            |  |  | PB97-108161    |
| 2-Butoxyethanol (ethylene glycol monobutyl ether) | 111-76-2                  | INTR/SYN  | WATER   | R2 M3   | TOX-26            |  |  | PB94-118106    |
| 2-Butoxyethanol (ethylene glycol monobutyl ether) | 111-76-2                  | INTR/SYN  | WATER   | R2      | TOX-26            |  |  | PB94-118106    |
| tert-Butyl alcohol                                | 75-65-0                   | IND/SYN   | INHAL   | R2 M3   | TOX-53            |  |  | PB98-108905    |
| Butyl benzyl phthalate                            | 85-68-7                   | PLAS/SYN  | FEED    | R2      | TR-458            |  |  | PB98-131089    |
| p-tert-Butylcatechol                              | 98-29-3                   | RUBR/SYN  | FEED    | R2 M3   | TOX-70            |  |  | PB2003-102289  |
| p-tert-Butylcatechol                              | 98-29-3                   | RUBR/SYN  | FEED    | R2 M3   | TOX-70            |  |  | PB2003-102289  |
| tert-Butyl perbenzoate                            | 614-45-9                  | ADHS/SYN  | GAV     | R2 M3   | TOX-15            |  |  | PB93-105690/AS |
| Cadmium oxide                                     | 1306-19-0                 | DYE/N/S   | INHAL   | R2 M3   | TOX-39            |  |  | PB95-263356    |
| Cadmium oxide                                     | 1306-19-0                 | DYE/N/S   | INHAL   | R8 M5   | TOX-39            |  |  | PB95-263356    |
| Carisoprodol                                      | 78-44-4                   | PHAR/SYN  | GAV     | R2 M3   | TOX-56            |  |  | PB2001-100477  |
| Carisoprodol                                      | 78-44-4                   | PHAR/SYN  | GAV     | R2 M3   | TOX-56            |  |  | PB2001-100477  |
| Castor oil  | 8001-79-4                 | COSM/NATL | FEED    | R2 M3   | TOX-12            |  |  | PB93-151439    |
| Cedarwood oil                                     | 8000-27-9                 | COSM/NATL | SP      | R2 M3   | TOX-86            |  |  | PB2018100057   |
| Cellulose insulation                              | CELLULOSEINS              | PAPR/SYN  | IT      | R2      | TOX-74            |  |  | PB2009-115653  |
| Chemical mixture - drinking water contaminants    | CHEMIXH20                 | COMT/NATL | WATER   | R2 M3   | TOX-35            |  |  | PB94-121498    |
| Chitosan  | 9012-76-4                 | DIET/NATL | FEED    | R8      | TOX-93            |  |  | PB2018100958   |
| Chloral hydrate                                   | 302-17-0                  | PHAR/SYN  | GAV     | R2 MV   | TOX-59            |  |  | PB2000-101393  |
| m-Chloroaniline                                   | 108-42-9                  | INTR/SYN  | GAV     | R2 M3   | TOX-43            |  |  | PB98-135932    |
| o-Chloroaniline                                   | 95-51-2                   | DYE/SYN   | GAV     | R2 M3   | TOX-43            |  |  | PB98-135932    |
| 2-Chloronitrobenzene                              | 88-73-3                   | DYE/SYN   | INHAL   | R2 M3   | TOX-33            |  |  | PB94-118262    |
| 4-Chloronitrobenzene                              | 100-00-5                  | DYE/SYN   | INHAL   | R2 M3   | TOX-33            |  |  | PB94-118262    |
| Chloroprene                                       | 126-99-8                  | PLAS/SYN  | INHAL   | R2 M3   | TR-467            |  |  | PB99-123671    |
| 1-Chloro-2-propanol, technical                    | 127-00-4                  | INTR/SYN  | WATER   | R2 M3   | TR-477            |  |  | PB99-119240    |
| o-Chloropyridine                                  | 109-09-1                  | COSM/SYN  | WATER   | R2 M3   | TOX-83            |  |  | PB2017101646   |
| p-Chloro-a,a,a-trifluorotoluene                   | 98-56-6                   | SYN       | GAV     | R2 M3   | TOX-14            |  |  | PB93-105682/AS |
| p-Chloro-a,a,a-trifluorotoluene                   | 98-56-6                   | SYN       | GAV     | R2 M3   | TOX-14            |  |  | PB93-105682/AS |
| C.I. Direct Black 38                              | 1937-37-7                 | DYE       | FEED    | R2 M3   | TR-108            |  |  | PB280204       |
| C.I. Direct Blue 6                                | 2602-46-2                 | COSM      | FEED    | R2 M3   | TR-108            |  |  | PB280204       |
| C.I. Direct Blue 218                              | 28407-37-6                | DYE       | FEED    | R2 M3   | TR-430            |  |  | PB94-215993    |
| C.I. Direct Brown 95                              | 16071-86-6                | DYE       | FEED    | R2 M3   | TR-108            |  |  | PB280204       |
| Cobalt sulfate heptahydrate                       | 10026-24-1                | DYE/NATL  | INHAL   | R2 M3   | TOX-05            |  |  | PB91-185348    |
| Codeine   | 76-57-3                   | INTR/N/S  | FEED    | R2 M3   | TR-455            |  |  | PB97-116743    |
| Coumarin  | 91-64-5                   | PHAR/NATL | GAV     | R2 M3   | TR-422            |  |  | PB94-215761    |
| m-Cresol  | 108-39-4                  | FUME/NATL | FEED    | R2 M3   | TOX-09            |  |  | PB92-174242    |
| o-Cresol  | 95-48-7                   | DYE/NATL  | FEED    | R2 M3   | TOX-09            |  |  | PB92-174242    |
| p-Cresol  | 106-44-5                  | PEST/NATL | FEED    | R2 M3   | TOX-09            |  |  | PB92-174242    |
| Cresols   | 1319-77-3                 | DYE/N/S   | FEED    | R2 M3   | TOX-09            |  |  | PB92-174242    |
| Crumb rubber various                              | CRUMBRUBBERVARIOUS        | N/S/SYN   | M22     |         |                   |  |  |                |
| Cupric sulfate                                    | 7758-99-8                 | FOOD/NATL | WATER   | R2 M3   | TOX-29            |  |  | PB94-120870    |
| Cupric sulfate                                    | 7758-99-8                 | FOOD/NATL | FEED    | R2 M3   | TOX-29            |  |  | PB94-120870    |
| Cyclohexanone oxime                               | 100-64-1                  | PLAS/SYN  | WATER   | M3      | TOX-50            |  |  | PB96-175559    |
| D&C Yellow No. 11                                 | 8003-22-3                 | COSM/SYN  | FEED    | R2 M3   | TOX-08            |  |  | PB91-185355    |
| 2,4-Decadienal                                    | 25152-84-5                | FOOD/N/S  | GAV     | R2 M3   | TOX-76            |  |  | PB2011-105285  |
| Diazoaminobenzene                                 | 136-35-6                  | DYE/SYN   | SP      | R2 M3   | TOX-73            |  |  | PB2003-103038  |

\*\* MR = Male Rat, FR = Female Rat, MM = Male Mice, FM = Female Mice.  
See Page 4 for explanation of Carcnoegen Codes

Ref No. 16

## Printed Long-Term and Short-Term Study Reports

## Short-Term Studies

CARCINOGEN  
CODES  
MR FR MM FM\*\*

| CHEMICAL NAME   | PRIMARY CAS USE<br>NUMBER | ROUTE     | SPECIES | RPT No. | NTIS **<br>NUMBER |               |
|---|---------------------------|-----------|---------|---------|-------------------|---------------|
| 1,2-Dibromo-2,4-dicyanobutane   | 35691-65-7 FUNG/SYN       | SP        | R2 M22  | TR-555  | PB2010-113180     |               |
| Dibutyl Phthalate   | 84-74-2 FUNG/SYN          | FEED      | R2 M3   | TOX-30  | PB95-232427       |               |
| Dibutyl Phthalate   | 84-74-2 FUNG/SYN          | FEED      | R2 M3   | TOX-30  | PB95-232427       |               |
| p,p'-Dichlorodiphenyl sulfone   | 80-07-9 PLAS              | FEED      | R2 M3   | TR-501  | PB2002-100580     |               |
| 1,2-Dichloroethane  | 107-06-2 FUME/SYN         | GAV       | R2      | TOX-04  | PB91-185363       |               |
| 1,2-Dichloroethane  | 107-06-2 FUME/SYN         | WATER     | R2 M3   | TOX-04  | PB91-185363       |               |
| 1,2-Dichloroethane  | 107-06-2 FUME/SYN         | WATER     | R1 R8   | TOX-04  | PB91-185363       |               |
| trans-1,2-Dichloroethylene  | 156-60-5 SOLV             | MICRO     | R2 M3   | TOX-55  | PB2002-108967     |               |
| Diethanolamine  | 111-42-2 TEXTL/SYN        | SP        | R2 M3   | TOX-20  | PB93-133999       |               |
| Diethanolamine  | 111-42-2 TEXTL/SYN        | WATER     | R2 M3   | TOX-20  | PB93-133999       |               |
| 3,4-Dihydrocoumarin   | 119-84-6 FOOD/NATL        | GAV       | R2 M3   | TR-423  | PB95-103925       |               |
| 1,2-Dihydro-2,2,4-trimethylquinoline<br>(monomer)   | 147-47-7 IND/SYN          | SP        | R2 M3   | TR-456  | PB98-101009       |               |
| 1,2-Dihydro-2,2,4-trimethylquinoline<br>(monomer)   | 147-47-7 IND/SYN          | SP        | R2 M7   | TR-456  | PB98-101009       |               |
| Diisopropylcarbodiimide   | 693-13-0 INTR/SYN         | SP        | R2 M3   | TR-523  | PB2007107705      |               |
| Dimethylaminopropyl chloride, hydrochloride   | 5407-04-5 INTR/SYN        | GAV       | R2 M3   | TOX-75  | PB2009-114738     |               |
| Dimethylformamide   | 68-12-2 SOLV/SYN          | INHAL     | R2 M3   | TOX-22  | PB93-131936       |               |
| 1,3-Diphenylguanidine   | 102-06-7 RUBR/SYN         | FEED      | R2 M3   | TOX-42  | PB96-115639       |               |
| Dipropylene glycol  | 25265-71-8 INTR           | WATER     | R2 M3   | TR-511  | PB2005100832      |               |
| Elmiron (sodium pentosanpolysulfate)  | 37319-17-8 PHAR/SYN       | GAV       | R2 M3   | TR-512  | PB2004-106612     |               |
| Estragole   | 140-67-0 FOOD/NATL        | GAV       | R2 M3   | TOX-82  | PB2011-105234     |               |
| Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-<br>2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E<br>Super@; OTNE) | 54464-57-2 COSM/SYN       | SP        | RD M3   | TOX-92  |                   |               |
| Ethylbenzene  | 100-41-4 FUEL/SYN         | INHAL     | R2 M3   | TOX-10  | PB93-149722       |               |
| Ethylene glycol monoethyl ether (EGMEE)   | 110-80-5 COSM/SYN         | WATER     | R2 M3   | TOX-26  | PB94-118106       |               |
| Ethylene glycol monoethyl ether (EGMEE)   | 110-80-5 COSM/SYN         | WATER     | R2      | TOX-26  | PB94-118106       |               |
| Ethylene Glycol Monomethyl Ether (EGMME)  | 109-86-4 COSM/SYN         | WATER     | R2 M3   | TOX-26  | PB94-118106       |               |
| Ethylene Glycol Monomethyl Ether (EGMME)  | 109-86-4 COSM/SYN         | WATER     | R2      | TOX-26  | PB94-118106       |               |
| Formamide   | 75-12-7 SOLV/SYN          | GAV       | R2 M3   | TR-541  | PB2009-115393     |               |
| Formic acid   | 64-18-6 FUME/N/S          | INHAL     | R2 M3   | TOX-19  | PB93-149730       |               |
| Fumonisin B1  | 116355-83-0 FEED/NATL     | FEED      | R2 M3   | TR-496  | PB2002-103492     |               |
| Furfuryl alcohol  | 98-00-0 FOOD/N/S          | INHAL     | R2 M3   | TR-482  | PB99-151482       |               |
| Gallium arsenide  | 1303-00-0 ELEC/SYN        | INHAL     | R2 M3   | TR-492  | PB2001-102003     |               |
| Glutaraldehyde  | 111-30-8 ADHS/SYN         | INHAL     | R2 M3   | TOX-25  | PB94-119252       |               |
| Glyphosate  | 1071-83-6 HERB/SYN        | FEED      | R2 M3   | TOX-16  | PB95-109898       |               |
| Glyphosate  | 1071-83-6 HERB/SYN        | FEED      | R2      | TOX-16  | PB95-109898       |               |
| Goldenseal root powder  | GOLDENSEALRT              | DIET/NATL | FEED    | R2 M22  | TR-562            | PB2011-101388 |
| Halogenated ethanes CS<br>(1,2-Dichloro-1,1-difluoroethane)   | 1649-08-7 IND/SYN         | GAV       | R2      | TOX-45  | PB96-202718       |               |
| Halogenated ethanes CS<br>(1,2-Difluoro-1,1,2,2-tetrachloroethane)                                      | 76-12-0 SOLV/SYN          | GAV       | R2      | TOX-45  | PB96-202718       |               |
| Halogenated ethanes CS (Hexachloroethane)   | 67-72-1 SOLV/SYN          | GAV       | R2      | TOX-45  | PB96-202718       |               |
| Halogenated ethanes CS (Pentabromoethane)   | 75-95-6 IND/SYN           | GAV       | R2      | TOX-45  | PB96-202718       |               |
| Halogenated ethanes CS (Pentachloroethane)  | 76-01-7 SOLV/SYN          | GAV       | R2      | TOX-45  | PB96-202718       |               |
| Halogenated ethanes CS<br>(1,1,1,2-Tetrabromoethane)  | 630-16-0 IND/SYN          | GAV       | R2      | TOX-45  | PB96-202718       |               |
| Halogenated ethanes CS<br>(1,1,2,2-Tetrabromoethane)  | 79-27-6 FLAM/SYN          | GAV       | R2      | TOX-45  | PB96-202718       |               |
| Halogenated ethanes CS<br>(1,1,1,2-Tetrachloroethane)   | 630-20-6 INTR             | GAV       | R2      | TOX-45  | PB96-202718       |               |
| Halogenated ethanes CS<br>(1,1,2,2-Tetrachloroethane)   | 79-34-5 SOLV/SYN          | GAV       | R2      | TOX-45  | PB96-202718       |               |
| Halogenated ethanes CS<br>(1,1,1-Trichloroethane)   | 71-55-6 SOLV/SYN          | GAV       | R2      | TOX-45  | PB96-202718       |               |
| Halogenated ethanes CS<br>(1,1,1-Trichloro-2,2,2-trifluoroethane)                                       | 354-58-5 IND/SYN          | GAV       | R2      | TOX-45  | PB96-202718       |               |
| Hexachloro-1,3-butadiene  | 87-68-3 FUME              | FEED      | M3      | TOX-01  | PB91-185884       |               |
| 2,4-Hexadienal  | 142-83-6 FOOD/N/S         | GAV       | R2 M3   | TR-509  | PB2004102548      |               |
| 1,6-Hexanediamine dihydrochloride   | 6055-52-3 INTR/SYN        | INHAL     | R2 M3   | TOX-24  | PB94-119260       |               |
| 1,6-Hexanediamine dihydrochloride   | 6055-52-3 INTR/SYN        | WATER     | R2 M3   | TOX-24  | PB94-119260       |               |
| n-Hexane  | 110-54-3 NATL/NATL        | INHAL     | M3      | TOX-02  | PB91-185322       |               |
| 2-Hydroxy-4-methoxybenzophenone   | 131-57-7 COSM/SYN         | FEED      | R2 M3   | TOX-21  | PB93-126498       |               |
| 2-Hydroxy-4-methoxybenzophenone   | 131-57-7 COSM/SYN         | SP        | R2 M3   | TOX-21  | PB93-126498       |               |
| 2-Hydroxy-4-methoxybenzophenone   | 131-57-7 COSM/SYN         | SP        | R2 M3   | TOX-21  | PB93-126498       |               |
| 5-(Hydroxymethyl)-2-furfural  | 67-47-0 NATL/N/S          | GAV       | R2 M3   | TR-554  | PB2010-113179     |               |
| Indole-3-carbinol   | 700-06-1 DIET/N/S         | GAV       | R2 M22  | TR-584  | PB2018100059      |               |
| Ionic Liquid: N-Butylpyridinium Chloride  | 1124-64-7 ELEC/SYN        | WATER     | HSD M22 |         |                   |               |
| Ionic Liquid: 1-Ethyl-3-methylimidazolium<br>Chloride   | 65039-09-0 IND/SYN        | WATER     | M22 HSD |         |                   |               |

\*\* MR = Male Rat, FR = Female Rat, MM = Male Mice, FM = Female Mice.  
See Page 4 for explanation of Carcnoegen Codes

Ref No. 16

## Printed Long-Term and Short-Term Study Reports

## Short-Term Studies

CARCINOGEN  
CODES  
MR FR MM FM\*\*

| CHEMICAL NAME   | PRIMARY CAS NUMBER | USE       | ROUTE | SPECIES  | RPT No. | NTIS ** NUMBER |
|---|--------------------|-----------|-------|----------|---------|----------------|
| Isobutyraldehyde  | 78-84-2            | INTR/N/S  | INHAL | R2 M3    | TR-472  | PB99-134785    |
| Isoprene  | 78-79-5            | RUBR/N/S  | INHAL | R2 M3    | TOX-31  | PB95-226486    |
| Isoprene  | 78-79-5            | RUBR/N/S  | INHAL | R2 M3    | TOX-31  | PB95-226486    |
| Leucomalachite green  | 129-73-7           | FUNG/SYN  | FEED  | R2 MV    | TOX-71  | PB2004-106614  |
| Magnetic fields (EMF)                                       | ELECTROMAG         | ELEC      | WB    | R2 M3    | TOX-58  | PB97-115463    |
| Magnetic fields + DMBA initiation promotion                 | EMF+DMBA           | ELEC/SYN  | GV/WB | R8       | TR-489  | PB2000-101313  |
| Malachite green   | 569-64-2           | GERM/SYN  | FEED  | R2 MV    | TOX-71  | PB2004-106614  |
| Manganese sulfate monohydrate                               | 10034-96-5         | DYE/NATL  | FEED  | R2 M3    | TR-428  | PB94-217148    |
| Methacrylonitrile   | 126-98-7           | INTR/SYN  | GAV   | R2 M3    | TOX-47  | PB2000-106-406 |
| Methapyrilene hydrochloride                                 | 135-23-9           | PHAR/SYN  | FEED  | R2       | TOX-46  | PB2000-107871  |
| Methyl bromide  | 74-83-9            | FUME/SYN  | INHAL | R2 M3    | TR-385  | PB92-189257    |
| Methyl bromide  | 74-83-9            | FUME/SYN  | INHAL | R2 M3    | TR-385  | PB92-189257    |
| 4-Methylcyclohexanemethanol                                 | 34885-03-5         | IND/SYN   | GAV   | HSD      |         |                |
| Methylene bis(thiocyanate)                                  | 6317-18-6          | FUNG/SYN  | GAV   | R2 M3    | TOX-32  | PB94-194164    |
| Methyl ethyl ketone peroxide                                | 1338-23-4          | PLAS/SYN  | SP    | R2 M3    | TOX-18  | PB94-119278    |
| Methyl ethyl ketoxime                                       | 96-29-7            | PNT       | WATER | R2 M3    | TOX-51  | PB99-176828    |
| Methyleugenol   | 93-15-2            | FOOD/NATL | GAV   | R2 M3    | TR-491  | PB2000-107865  |
| 2-Methylimidazole   | 693-98-1           | INTR/N/S  | FEED  | R2 M3    | TOX-67  | PB2004-105393  |
| 4-Methylimidazole   | 822-36-6           | FOOD/N/S  | FEED  | R2 M3    | TOX-67  | PB2004-105393  |
| Methylphenidate hydrochloride                               | 298-59-9           | PHAR/SYN  | FEED  | R2 M3    | TR-439  | PB96-162615    |
| Molybdenum trioxide   | 1313-27-5          | DYE/SYN   | INHAL | R2 M3    | TR-462  | PB98-107048    |
| p-Nitroaniline  | 100-01-6           | DYE/SYN   | GAV   | M3       | TR-418  | PB94-104528    |
| o-Nitroanisole  | 91-23-6            | DYE/SYN   | FEED  | R2 M3    | TR-416  | PB94-109758    |
| p-Nitrobenzoic acid   | 62-23-7            | DYE       | FEED  | R2 M3    | TR-442  | PB95-226254    |
| 1-Nitropyrene   | 5522-43-0          | ENVH/SYN  | INHAL | R2       | TOX-34  | PB96-117342    |
| m-Nitrotoluene  | 99-08-1            | DYE/SYN   | FEED  | R2 M3    | TOX-23  | PB93-150092    |
| o-Nitrotoluene  | 88-72-2            | RUBR/SYN  | FEED  | R2 M3    | TOX-23  | PB93-150092    |
| o-Nitrotoluene  | 88-72-2            | RUBR/SYN  | FEED  | R2       | TOX-44  | PB96-188321    |
| p-Nitrotoluene  | 99-99-0            | DYE/SYN   | FEED  | R2 M3    | TOX-23  | PB93-150092    |
| Pentachlorobenzene  | 608-93-5           | FLAM      | FEED  | R2 M3    | TOX-06  | PB91-185983    |
| Pentachlorophenol, DP-2                                     | 87-86-5            | PEST/SYN  | FEED  | M3       | TR-349  | PB89-216536    |
| Pentachlorophenol, purified                                 | 87-86-5            | PEST/SYN  | FEED  | M3       | TR-349  | PB89-216536    |
| Perfluorobutane sulfonate (PFBS)                            | 375-73-5           | IND/SYN   | GAV   | HSD      |         |                |
| Perfluorodecanoic Acid                                      | 335-76-2           | IND/SYN   | GAV   | HSD      |         |                |
| Perfluorohexane sulfonate potassium salt (PFHKSslt)         | 3871-99-6          | PLAS/SYN  | GAV   | HSD      |         |                |
| Perfluorohexanoic acid (PFHXA)                              | 307-24-4           | FDPK/SYN  | GAV   | HSD      |         |                |
| Perfluorononanoic Acid                                      | 375-95-1           | FDPK/SYN  | GAV   | HSD      |         |                |
| Perfluorooctane Sulfonate                                   | 1763-23-1          | SYN       | GAV   | HSD      |         |                |
| Perfluorooctanoic Acid                                      | 335-67-1           | ELEC/SYN  | GAV   | HSD      |         |                |
| Peroxisome project (WY-14643)                               | 50892-23-4         | PHAR/SYN  | FEED  | M3 H1    | TOX-62  | PB2000-106659  |
|   |                    |           |       | HSD      |         |                |
| Pesticide/fertilizer contamination--mixture 2               | PESTFERTMIX2       | COMT/SYN  | WATER | R2 M3    | TOX-36  | PB94-121035    |
| Pesticide/fertilizer contamination--mixture 3               | PESTFERTMIX3       | COMT/SYN  | WATER | R2 M3    | TOX-36  | PB94-121035    |
| Phenolphthalein   | 77-09-8            | PHAR/SYN  | FEED  | R2 M3    | TR-465  | PB97-169882    |
| ortho-Phthalaldehyde  | 643-79-8           | GERM      | INHAL | M3 HSD   | TOX-84  | PB2018100957   |
| Promethazine hydrochloride                                  | 58-33-3            | PHAR/SYN  | GAV   | R2 M3    | TR-425  | PB94-210192    |
| Propylene glycol phenyl ether                               | 770-35-4           | SOLV/SYN  | GAV   | HSD      |         |                |
| Riddelliine   | 23246-96-0         | PHAR/NATL | GAV   | R2 M3    | TOX-27  | PB94-194685    |
| Salicylazosulfapyridine                                     | 599-79-1           | PHAR/SYN  | GAV   | R2 M3    | TR-457  | PB97-212708    |
| Scopolamine hydrobromide trihydrate                         | 6533-68-2          | PHAR/SYN  | GAV   | R2 M3    | TR-445  | PB97-208946    |
| Senna (powdered)  | 8013-11-4          | DIET/NATL | FEED  | M1       | GMM-15  | PB2012111383   |
| Senna (powdered)  | 8013-11-4          | DIET/NATL | FEED  | MD       | GMM-15  | PB2012111383   |
| Serotype 2 Adeno-associated Viral Vector hAQP1 (rAAV2hAQP1) | AAV2HAQP1          |           | ID/CN | MW       |         |                |
| Sodium cyanide  | 143-33-9           | FUME/SYN  | WATER | R2 M3    | TOX-37  | PB94-194693    |
| Sodium dichromate dihydrate (VI)                            | 7789-12-0          | ENVH/SYN  | WATER | M3 MX MW | TOX-72  | PB2007-107225  |
| Sodium nitrite  | 7632-00-0          | INTR/SYN  | WATER | R2 M3    | TR-495  | PB2001-107676  |
| Sodium selenate   | 13410-01-0         | FEED/SYN  | WATER | R2 M3    | TOX-38  | PB94-215753    |
| Sodium selenite   | 10102-18-8         | FEED/SYN  | WATER | R2 M3    | TOX-38  | PB94-215753    |
| Sodium thioglycolate  | 367-51-1           | COSM/SYN  | SP    | R2 M3    | TOX-80  |                |
| Sodium xylenesulfonate                                      | 1300-72-7          | DTRG/SYN  | SP    | R2 M3    | TR-464  | PB98-168719    |
| Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)          | 21850-44-2         | FLAM/SYN  | GAV   | RD M3    | TOX-85  |                |
| 3,3',4,4'-Tetrachloroazobenzene                             | 14047-09-7         | PEST/SYN  | GAV   | R2 M3    | TOX-65  | PB99-123465    |
| 3,3',4,4'-Tetrachloroazobenzene                             | 14047-09-7         | PEST/SYN  | GAV   | HSD      | TR-558  | PB2011-104500  |
| 3,3',4,4'-Tetrachloroazoxybenzene                           | 21232-47-3         | COMT/SYN  | GAV   | R2 M3    | TOX-66  | PB99-123663    |
| 1,2,4,5-Tetrachlorobenzene                                  | 95-94-3            | DYE       | FEED  | R2 M3    | TOX-07  | PB91-185330    |
| 1,1,2,2-Tetrachloroethane                                   | 79-34-5            | SOLV/SYN  | MICRO | R2 M3    | TOX-49  | PB2004-105706  |

\*+ MR = Male Rat, FR = Female Rat, MM = Male Mice, FM = Female Mice.

See Page 4 for explanation of Carcino Code

Ref No. 16

Printed Long-Term and Short-Term Study Reports

Short-Term Studies

| CHEMICAL NAME                        | PRIMARY CAS USE NUMBER | ROUTE | SPECIES | RPT No. | NTIS ** NUMBER | CARCINOGEN CODES |    |    |      |
|--------------------------------------|------------------------|-------|---------|---------|----------------|------------------|----|----|------|
|                                      |                        |       |         |         |                | MR               | FR | MM | FM** |
| 1,1,2,2-Tetrachloroethane            | 79-34-5 SOLV/SYN       | MICRO | R2 M3   | TOX-49  | PB2004-105706  |                  |    |    |      |
| Tetrachlorophthalic anhydride        | 117-08-8 FLAM/SYN      | GAV   | R2 M3   | TOX-28  | PB94-119245    |                  |    |    |      |
| Tetrafluoroethylene                  | 116-14-3 FOOD/SYN      | INHAL | R2 M3   | TR-450  | PB97-208508    |                  |    |    |      |
| 1-trans-delta-9-Tetrahydrocannabinol | 1972-08-3 PHAR/NATL    | GAV   | R2 M3   | TR-446  | PB97-182208    |                  |    |    |      |
| Tetrahydrofuran                      | 109-99-9 FDPK/SYN      | INHAL | R2 M3   | TR-475  | PB98-164544    |                  |    |    |      |
| Theophylline                         | 58-55-9 PHAR/NATL      | GAV   | R2 M3   | TR-473  | PB99-113342    |                  |    |    |      |
| Theophylline                         | 58-55-9 PHAR/NATL      | FEED  | R2 M3   | TR-473  | PB99-113342    |                  |    |    |      |
| alpha-Thujone                        | 546-80-5 DIET/NATL     | GAV   | R2 M22  | TR-570  | PB2012-102007  |                  |    |    |      |
| alpha/beta Thujone mixture           | 76231-76-0 COSM/NATL   | GAV   | R2 M22  | TR-570  | PB2012-102007  |                  |    |    |      |
| Toluene                              | 108-88-3 FUEL/N/S      | GAV   | R2 M3   | TR-371  | PB90-256371    |                  |    |    |      |
| p-Toluenesulfonamide                 | 70-55-3 PEST/SYN       | FEED  | RD M3   | TOX-88  | PB2018100058   |                  |    |    |      |
| o-Toluidine hydrochloride            | 636-21-5 DYE           | FEED  | R2      | TOX-44  | PB96-188321    |                  |    |    |      |
| 1,1,1-Trichloroethane                | 71-55-6 SOLV/SYN       | MICRO | R2 M3   | TOX-41  | PB2001-100476  |                  |    |    |      |
| Triethylamine                        | 121-44-8 INTR/SYN      | INHAL | R2 M3   | TOX-78  | PB2018100956   |                  |    |    |      |
| 2,4,7-Trinitro-fluoren-9-one         | 129-79-3 PHOT/SYN      | SP    | R2 M3   | TOX-13  | PB92-238864/AS |                  |    |    |      |
| 2,4,7-Trinitro-fluoren-9-one         | 129-79-3 PHOT/SYN      | FEED  | R2 M3   | TOX-13  | PB92-238864/AS |                  |    |    |      |
| Urethane                             | 51-79-6 PNT/SYN        | WATER | R2 M3   | TOX-52  | PB96-175575    |                  |    |    |      |
| Urethane + ethanol (combination)     | URETHCOMB PNT/N/S      | WATER | R2 M3   | TOX-52  | PB96-175575    |                  |    |    |      |
| Vanadium pentoxide                   | 1314-62-1 INTR/NATL    | INHAL | R2 M3   | TR-507  | PB2003102385   |                  |    |    |      |
| Wyeth 14,643 (WY)                    | 50892-23-4 PHAR/SYN    | GAV   | HSD     |         |                |                  |    |    |      |

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See Page 4 for explanation of Carcnoegen Codes

\*\* The NCI and the NTP Technical Reports for the following chemicals are available from the National Technical Information Service (NTIS), Department of Commerce, 5285 Port Royal Road, Springfield, Virginia 22161, Phone: (703) 605-6000 or 1-800-553-6847 (rush orders only). Technical reports numbered 220 or higher may also be available from Central Data Management (CDM) (TELEPHONE: 919-541-3419; FAX: (301) 480-3210; Mail Drop K2-05, NIEHS, P. O. BOX 12233, Research Triangle Park, NC USA 27709; EMAIL: CDM@NIEHS.NIH.GOV) . All requests containing checks, money orders, or purchase orders should be sent to NTIS.

Ref No. 16

Printed Long-Term and Short-Term Study Reports

Long-Term Studies

| CHEMICAL NAME  | PRIMARY CAS USE NUMBER | ROUTE | SPECIES | RPT No. | NTIS ** NUMBER | CARCINOGEN CODES |    |    |      |
|--|------------------------|-------|---------|---------|----------------|------------------|----|----|------|
|  |                        |       |         |         |                | MR               | FR | MM | FM** |
| Acetaminophen (4-hydroxyacetanilide)                     | 103-90-2 DYE/SYN       | FEED  | R2 M3   | TR-394  | PB93-227478    | NE               | EE | NE | NE   |
| Acetohexamide  | 968-81-0 PHAR/SYN      | FEED  | R2 M3   | TR-050  | PB284673       | N                | N  | N  | N    |
| Acetonitrile   | 75-05-8 SOLV/SYN       | INHAL | R2 M3   | TR-447  | PB96-214937    | EE               | NE | NE | NE   |
| Acronycine   | 7008-42-6 CMOT/NATL    | IP/IJ | R8 M3   | TR-049  | PB283347       | P                | P  | IS | IS   |
| Acrylamide   | 79-06-1 COMT/SYN       | WATER | RC MV   | C20007  |                | CE               | CE | CE | CE   |
| Acrylonitrile  | 107-13-1 INTR/SYN      | GAV   | M3      | TR-506  | PB2002-102198  |                  |    | CE | CE   |
| Agar   | 9002-18-0 FOOD/NATL    | FEED  | R2 M3   | TR-230  | PB82-227588    | N                | N  | N  | N    |
| Aldicarb   | 116-06-3 PEST/SYN      | FEED  | R2 M3   | TR-136  | PB298511       | N                | N  | N  | N    |
| Aldrin   | 309-00-2 PEST/SYN      | FEED  | R1 M3   | TR-021  | PB275666       | E                | E  | P  | P    |
| Allyl chloride   | 107-05-1 INTR/SYN      | GAV   | R1 M3   | TR-073  | PB287516       | N                | N  | E  | E    |
| Allyl glycidyl ether                                     | 106-92-3 SOLV/SYN      | INHAL | R1 M3   | TR-376  | PB90-260027    | EE               | NE | SE | SE   |
| Allyl isothiocyanate                                     | 57-06-7 FOOD/NATL      | GAV   | R2 M3   | TR-234  | PB83-144238    | P                | E  | N  | N    |
| Allyl isovalerate  | 2835-39-4 FOOD/SYN     | GAV   | R2 M3   | TR-253  | PB83-218214    | P                | N  | N  | N    |
| Aloe-emodin  | 481-72-1 DIET/NATL     | SP    | MT      | TR-553  | PB2011-101386  |                  |    |    |      |
| Aloe phototoxicity studies                               | ALOEPHOTOTOX DIET/NATL | SP    | MT      | TR-553  | PB2011-101386  |                  |    |    |      |
| Aloe vera charcoal filtered whole leaf extract           | ALOEVFILTER DIET/NATL  | SP    | MT      | TR-553  | PB2011-101386  |                  |    |    |      |
| Aloe vera gel  | 8001-97-6 DIET/NATL    | SP    | MT      | TR-553  | PB2011-101386  |                  |    |    |      |
| Aloe vera whole leaf extract (native)                    | ALOEVLEAFEXT DIET/NATL | WATER | RC MV   | TR-577  | PB2014-100511  | CE               | CE | NE | NE   |
| Aloe vera whole leaf extract (native)                    | ALOEVLEAFEXT DIET/NATL | SP    | MT      | TR-553  | PB2011-101386  |                  |    |    |      |
| alpha/beta Hydroxy acids (glycolic acid, salicylic acid) | HYDROXGLYSAL COSM/N/S  | SP    | MT      | TR-524  | PB2008109732   |                  |    | NE | NE   |
| 2-Aminoanthraquinone                                     | 117-79-3 DYE/SYN       | FEED  | R2 M3   | TR-144  | PB287739       | P                | IS | P  | P    |
| 1-Amino-2,4-dibromoanthraquinone                         | 81-49-2 DYE/SYN        | FEED  | R2 M3   | TR-383  | PB97-116636    | CE               | CE | CE | CE   |
| 3-Amino-4-ethoxyacetanilide                              | 17026-81-2 DYE         | FEED  | R2 M3   | TR-112  | PB285194       | N                | N  | P  | P    |
| 3-Amino-9-ethylcarbazole HCl                             | 6109-97-3 DYE          | FEED  | R2 M3   | TR-093  | PB287126       | P                | P  | P  | P    |
| 1-Amino-2-methylanthraquinone                            | 82-28-0 DYE/SYN        | FEED  | R2 M3   | TR-111  | PB286852       | P                | P  | N  | N    |
| 2-Amino-4-nitrophenol                                    | 99-57-0 DYE/SYN        | GAV   | R2 M3   | TR-339  | PB89-128623    | SE               | NE | NE | NE   |
| 2-Amino-5-nitrophenol                                    | 121-88-0 DYE/SYN       | GAV   | R2 M3   | TR-334  | PB88-184809    | SE               | NE | NE | NE   |
| 4-Amino-2-nitrophenol                                    | 119-34-6 DYE/SYN       | FEED  | R2 M3   | TR-094  | PB286189       | P                | E  | N  | N    |
| 2-Amino-5-nitrothiazole                                  | 121-66-4 PHAR/SYN      | FEED  | R2 M3   | TR-053  | PB283346       | P                | N  | N  | N    |
| 11-Aminoundecanoic acid                                  | 2432-99-7 INTR/SYN     | FEED  | R2 M3   | TR-216  | PB82-225640    | P                | N  | E  | E    |
| DL-amphetamine sulfate                                   | 60-13-9 PHAR/SYN       | FEED  | R2 M3   | TR-387  | PB92-107978    | NE               | NE | NE | NE   |
| Ampicillin trihydrate                                    | 7177-48-2 PHAR/N/S     | GAV   | R2 M3   | TR-318  | PB87-204160    | EE               | NE | NE | NE   |

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See Page 4 for explanation of Carcnoegen Codes

Ref No. 16

Printed Long-Term and Short-Term Study Reports

Long-Term Studies

| CHEMICAL NAME   | PRIMARY CAS NUMBER | USE        | ROUTE | SPECIES | RPT No. | NTIS ** NUMBER | CARCINOGEN CODES |    |    |      |
|---|--------------------|------------|-------|---------|---------|----------------|------------------|----|----|------|
|   |                    |            |       |         |         |                | MR               | FR | MM | FM** |
| Androstenedione   | 63-05-8            | DIET/SYN   | GAV   | R2 M22  | TR-560  | PB2011-100790  | EE               | EE | CE | CE   |
| Anilazine   | 101-05-3           | FUNG/SYN   | FEED  | R2 M3   | TR-104  | PB287141       | N                | N  | N  | N    |
| Aniline hydrochloride                                     | 142-04-1           | DYE/NATL   | FEED  | R2 M3   | TR-130  | PB287539       | P                | P  | N  | N    |
| o-Anisidine hydrochloride                                 | 134-29-2           | DYE        | FEED  | R2 M3   | TR-089  | PB285879       | P                | P  | P  | P    |
| p-Anisidine hydrochloride                                 | 20265-97-8         | DYE        | FEED  | R2 M3   | TR-116  | PB286951       | E                | N  | N  | N    |
| o-Anthranilic acid  | 118-92-3           | DYE/NATL   | FEED  | R2 M3   | TR-036  | PB278883       | N                | N  | N  | N    |
| Anthraquinone   | 84-65-1            | DYE/SYN    | FEED  | R2 M3   | TR-494  | PB2006-101509  | SE               | CE | CE | CE   |
| Antimony Trioxide   | 1309-64-4          | DYE/N/S    | INHAL | RE M3   | TR-590  | PB2018100959   | SE               | SE | CE | CE   |
| Aroclor 1254  | 11097-69-1         | ELEC       | FEED  | R2      | TR-038  | PB279624       | E                | E  |    |      |
| Asbestos, amosite   | 12172-73-5         | NSUL/NATL  | FEED  | R2      | TR-279  | PB91-172312    | N                | N  |    |      |
| Asbestos, amosite   | 12172-73-5         | NSUL/NATL  | FEED  | H1      | TR-249  | PB87-133278    |                  |    |    |      |
| Asbestos, amosite + Dimethyl hydrazine                    | 12172-73-5         | FLAM/NATL  | FEED  | R2      | TR-279  | PB91-172312    | IS               | IS |    |      |
| Asbestos, chrysotile(IR)                                  | 12001-29-5         | TEXTL/NATL | FEED  | R2      | TR-295  | PB86-167103    | SE               | NE |    |      |
| Asbestos, chrysotile(IR)                                  | 12001-29-5         | TEXTL/NATL | FEED  | H1      | TR-246  | PB91-142380    |                  |    |    |      |
| Asbestos, chrysotile(IR)                                  | 12001-29-5         | TEXTL/NATL | FEED  | R2      | TR-295  | PB86-167103    |                  |    |    |      |
| Asbestos, chrysotile(IR) + Dimethyl hydrazine             | 12001-29-5         | TEXTL/NATL | FEED  | H1      | TR-246  | PB91-142380    |                  |    |    |      |
| Asbestos, chrysotile(IR) + Dimethyl hydrazine             | 12001-29-5         | TEXTL/NATL | FEED  | R2      | TR-295  | PB86-167103    | IS               | IS |    |      |
| Asbestos, chrysotile(SR)                                  | 12001-29-5         | TEXTL/NATL | FEED  | R2      | TR-295  | PB86-167103    | NE               | NE |    |      |
| Asbestos, chrysotile(SR)                                  | 12001-29-5         | TEXTL/NATL | FEED  | H1      | TR-246  | PB91-142380    |                  |    |    |      |
| Asbestos, crocidolite                                     | 12001-28-4         | NSUL/NATL  | FEED  | R2      | TR-280  | PB89-178529    | N                | N  |    |      |
| L-Ascorbic acid   | 50-81-7            | COSM/NATL  | FEED  | R2 M3   | TR-247  | PB83-201194    | N                | N  | N  | N    |
| Aspirin, phenacetin, and caffeine                         | 8003-03-0          | PHAR/N/S   | FEED  | R2 M3   | TR-067  | PB284684       | N                | E  | N  | N    |
| 5-Azacytidine   | 320-67-2           | CMOT/SYN   | IP/IJ | R8 M3   | TR-042  | PB279526       | IS               | IS | IS | IS   |
| 3'-Azido-3'-deoxythymidine (AIDS)                         | 30516-87-1         | CMOT/SYN   | GAV   | MV M3   | TR-569  | PB2013-104938  |                  |    | NE | NE   |
| 3'-Azido-3'-deoxythymidine (AIDS)                         | 30516-87-1         | CMOT/SYN   | GAV   | MV      | TR-569  | PB2013-104938  |                  |    | NE | NE   |
| 3'-Azido-3'-deoxythymidine (AIDS)                         | 30516-87-1         | CMOT/SYN   | GAV   | MV      | TR-569  | PB2013-104938  |                  |    | SE | SE   |
| 3'-Azido-3'-deoxythymidine (AIDS)                         | 30516-87-1         | CMOT/SYN   | GAV   | MV      | TR-569  | PB2013-104938  |                  |    | NE | NE   |
| 3'-Azido-3'-deoxythymidine (AIDS)                         | 30516-87-1         | CMOT/SYN   | GAV   | MJ      | GMM-14  | PB2014-103470  |                  |    | CE | CE   |
| 3'-Azido-3'-deoxythymidine (AIDS)                         | 30516-87-1         | CMOT/SYN   | GAV   | MS      | GMM-16  | PB2014-103469  |                  |    | CE | CE   |
| 3'-Azido-3'-deoxythymidine (AIDS)                         | 30516-87-1         | CMOT/SYN   | GAV   | MS      | GMM-16  | PB2014-103469  |                  |    | NE | NE   |
| 3'-Azido-3'-deoxythymidine (AIDS)                         | 30516-87-1         | CMOT/SYN   | GAV   | MS      | GMM-16  | PB2014-103469  |                  |    | NE | NE   |
| 3'-Azido-3'-deoxythymidine (AIDS)                         | 30516-87-1         | CMOT/SYN   | GAV   | MS      | GMM-16  | PB2014-103469  |                  |    | CE | CE   |
| 3'-Azido-3'-deoxythymidine (AIDS)                         | 30516-87-1         | CMOT/SYN   | GAV   | MS      | GMM-16  | PB2014-103469  |                  |    | CE | CE   |
| 3'-Azido-3'-deoxythymidine (AIDS)                         | 30516-87-1         | CMOT/SYN   | GAV   | R2 M3   | TR-469  | PB99-145807    |                  |    | EE | EE   |
| Azinphosmethyl  | 86-50-0            | PEST/SYN   | FEED  | R1 M3   | TR-069  | PB286371       | E                | N  | N  | N    |
| Azobenzene  | 103-33-3           | DYE/SYN    | FEED  | R2 M3   | TR-154  | PB293835       | P                | P  | N  | N    |
| AZT+3TC+NVP combination                                   | AZT3TCCOMBO        | PHAR/SYN   | GAV   | MJ      | GMM-16  | PB2014-103469  |                  |    |    |      |
| AZT/Drug Combinations Transplacental Carcinogenesis Study | AIDSTHERAPEU       | PHAR/SYN   | UTERO | MV      | TR-569  | PB2013-104938  |                  |    |    |      |
| AZT transplacental carcinogenesis study                   | 30516-87-1         | CMOT/SYN   | UTERO | M5      | TR-522  | PB2006-115448  |                  |    | CE | CE   |
| Barium chloride dihydrate                                 | 10326-27-9         | DYE/NATL   | WATER | R2 M3   | TR-432  | PB94-214178    | NE               | NE | NE | NE   |
| Benzaldehyde  | 100-52-7           | INTR/N/S   | GAV   | R2 M3   | TR-378  | PB90-253782    | NE               | NE | SE | SE   |
| Benzene   | 71-43-2            | COMT/N/S   | GAV   | R2 M3   | TR-289  | PB86-216967    | CE               | CE | CE | CE   |
| Benzethonium chloride                                     | 121-54-0           | COSM/SYN   | SP    | R2 M3   | TR-438  | PB96-162300    | NE               | NE | NE | NE   |
| Benzofuran  | 271-89-6           | INTR/SYN   | GAV   | R2 M3   | TR-370  | PB90-231127    | NE               | SE | CE | CE   |
| Benzoin   | 119-53-9           | FOOD/SYN   | FEED  | R2 M3   | TR-204  | PB80-217953    | N                | N  | N  | N    |
| Benzophenone  | 119-61-9           | PHAR/SYN   | FEED  | R2 M22  | TR-533  | PB2006-111481  | SE               | EE | SE | SE   |
| p-Benzoquinone dioxime                                    | 105-11-3           | RUBR/SYN   | FEED  | R2 M3   | TR-179  | PB291501       | N                | P  | N  | N    |
| 1,2,3-Benzotriazole                                       | 95-14-7            | INTR/SYN   | FEED  | R2 M3   | TR-088  | PB285202       | E                | E  | N  | N    |
| Benzyl acetate  | 140-11-4           | COSM/N/S   | GAV   | R2 M3   | TR-250  | PB87-115044    | EE               | NE | SE | SE   |
| Benzyl acetate  | 140-11-4           | COSM/N/S   | FEED  | R2 M3   | TR-431  | PB94-184033    | NE               | NE | NE | NE   |
| Benzyl alcohol  | 100-51-6           | COSM/NATL  | GAV   | R2 M3   | TR-343  | PB90-110206    | NE               | NE | NE | NE   |
| o-Benzyl-p-chlorophenol                                   | 120-32-1           | GERM/SYN   | SP    | M5      | TR-444  | PB96-162342    |                  |    |    |      |
| o-Benzyl-p-chlorophenol                                   | 120-32-1           | GERM/SYN   | GAV   | R2 M3   | TR-424  | PB94-214202    | NE               | EE | SE | SE   |
| 2-Biphenylamine hydrochloride                             | 2185-92-4          | DYE/SYN    | FEED  | R2 M3   | TR-233  | PB83-138842    | N                | N  | E  | E    |
| 2,2-bis(Bromomethyl)-1,3-propanediol                      | 3296-90-0          | FLAM/SYN   | FEED  | R2 M3   | TR-452  | PB97-120224    | CE               | CE | CE | CE   |
| bis(2-Chloro-1-methylethyl) ether                         | 108-60-1           | SOLV/SYN   | GAV   | R2      | TR-191  | PB299741       | N                | N  |    |      |
| bis(2-Chloro-1-methylethyl) ether                         | 108-60-1           | SOLV/SYN   | GAV   | M3      | TR-239  | PB83-169615    |                  |    | P  | P    |
| Bisphenol A   | 80-05-7            | INTR/SYN   | FEED  | R2 M3   | TR-215  | PB82-184060    | E                | E  | E  | E    |
| Boric acid  | 10043-35-3         | COSM/NATL  | FEED  | M3      | TR-324  | PB88-213475    |                  |    | NE | NE   |
| Bromodichloromethane                                      | 75-27-4            | INTR/SYN   | GAV   | R2 M3   | TR-321  | PB88-168687    | CE               | CE | CE | CE   |
| Bromoethane (ethyl bromide)                               | 74-96-4            | INTR/SYN   | INHAL | R2 M3   | TR-363  | PB90-219445    | SE               | EE | EE | EE   |
| 1-Bromopropane  | 106-94-5           | ADHS/SYN   | INHAL | R2 M22  | TR-564  | PB2011-114187  | SE               | CE | NE | NE   |
| 1,3-Butadiene   | 106-99-0           | INTR/N/S   | INHAL | M3      | TR-288  | PB85-179646    |                  |    | CE | CE   |
| 1,3-Butadiene   | 106-99-0           | INTR/N/S   | INHAL | M3      | TR-434  | PB94-101631    |                  |    | CE | CE   |
| 2-Butoxyethanol (ethylene glycol monobutyl ether)         | 111-76-2           | INTR/SYN   | INHAL | R2 M3   | TR-484  | PB2000-105865  | NE               | EE | SE | SE   |
| tert-Butyl alcohol  | 75-65-0            | IND/SYN    | WATER | R2 M3   | TR-436  | PB96-162748    | SE               | NE | EE | EE   |
| Butylated hydroxytoluene                                  | 128-37-0           | FOOD/SYN   | FEED  | R2 M3   | TR-150  | PB298539       | N                | N  | N  | N    |

\*+ MR = Male Rat, FR = Female Rat, MM = Male Mice, FM = Female Mice.  
See Page 4 for explanation of Carcnoegen Codes



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Printed Long-Term and Short-Term Study Reports

Long-Term Studies

| CHEMICAL NAME                            | PRIMARY CAS NUMBER | USE       | ROUTE | SPECIES | RPT No.    | NTIS ** NUMBER | CARCINOGEN CODES |    |    |       |
|--|--------------------|-----------|-------|---------|------------|----------------|------------------|----|----|-------|
|  |                    |           |       |         |            |                | MR               | FR | MM | FM**  |
| Butyl benzyl phthalate                   | 85-68-7            | PLAS/SYN  | FEED  | R2 M3   | TR-213     | PB83-118398    | IS               | P  | N  | N     |
| Butyl benzyl phthalate                   | 85-68-7            | PLAS/SYN  | FEED  | R2      | TR-458     | PB98-131089    | SE               | EE |    |       |
| n-Butyl chloride                         | 109-69-3           | INTR/SYN  | GAV   | R2 M3   | TR-312     | PB86-218526    | NE               | NE | NE | NE    |
| t-Butylhydroquinone                      | 1948-33-0          | COSM      | FEED  | R2 M3   | TR-459     | PB98-107170    | NE               | NE | NE | NE    |
| gamma-Butyrolactone                      | 96-48-0            | INTR/SYN  | GAV   | R2 M3   | TR-406     | PB92-189323    | NE               | NE | EE | EE    |
| Calcium cyanamide                        | 156-62-7           | PEST/SYN  | FEED  | R2 M3   | TR-163     | PB293625       | N                | N  | N  | N     |
| Caprolactam                              | 105-60-2           | TEXL/SYN  | FEED  | R2 M3   | TR-214     | PB82-190182    | N                | N  | N  | N     |
| Captan                                   | 133-06-2           | FUNG/SYN  | FEED  | R1 M3   | TR-015     | PB273475       | N                | N  | P  | P     |
| Carbromal                                | 77-65-6            | PHAR/SYN  | FEED  | R2 M3   | TR-173     | PB290130       | N                | N  | N  | N     |
| D-Carvone                                | 2244-16-8          | COSM/NATL | GAV   | R2 M3   | TR-381     | PB90-241100    |                  |    | NE | NE    |
| Chloral hydrate                          | 302-17-0           | PHAR/SYN  | GAV   | R2 MV   | TR-502     | PB2002-105712  |                  |    |    |       |
| Chloral hydrate                          | 302-17-0           | PHAR/SYN  | GAV   | MV      | TR-503     | PB2003-103039  |                  |    |    | SE SE |
| Chloramben                               | 133-90-4           | HERB/SYN  | FEED  | R1 M3   | TR-025     | PB273065       | N                | N  | E  | E     |
| Chloraminated water                      | CHLORAMINEMX       | WATR/SYN  | WATER | R2 M3   | TR-392     | PB92-191659    | NE               | EE | NE | NE    |
| Chlordane (analytical grade)             | 57-74-9            | PEST/SYN  | FEED  | R1 M3   | TR-008     | PB271977       | N                | N  | P  | P     |
| Chlordecone                              | 143-50-0           | FUNG/SYN  | FEED  | R1 M3   | TR-000     | PB264041       | P                | P  | P  | P     |
|  |                    |           |       |         | (143-50-0) |                |                  |    |    |       |
| Chlorendic acid                          | 115-28-6           | FLAM/SYN  | FEED  | R2 M3   | TR-304     | PB87-206835    | CE               | CE | CE | CE    |
| Chlorinated paraffins: C12, 60% chlorine | 108171-26-2        | FLAM/SYN  | GAV   | R2 M3   | TR-308     | PB86-248101    | CE               | CE | CE | CE    |
| Chlorinated paraffins: C23, 43% chlorine | 108171-27-3        | FLAM/SYN  | GAV   | R2 M3   | TR-305     | PB86-248093    | NE               | EE | CE | CE    |
| Chlorinated trisodium phosphate          | 56802-99-4         | DTRG      | GAV   | R2 M3   | TR-294     | PB87-189718    | IS               | IS | NE | NE    |
| Chlorinated water                        | CHLORWATERMX       | WATR/SYN  | WATER | R2 M3   | TR-392     | PB92-191659    | NE               | EE | NE | NE    |
| 2-Chloroacetophenone (CN)                | 532-27-4           | MLTR/SYN  | INHAL | R2 M3   | TR-379     | PB90-256066    | NE               | EE | NE | NE    |
| 4-(Chloroacetyl)acetanilide              | 140-49-8           | DYE/SYN   | FEED  | R2 M3   | TR-177     | PB288754       | N                | N  | N  | N     |
| p-Chloroaniline                          | 106-47-8           | DYE/SYN   | FEED  | R2 M3   | TR-189     | PB295896       | E                | N  | E  | E     |
| p-Chloroaniline hydrochloride            | 20265-96-7         | DYE       | GAV   | R2 M3   | TR-351     | PB90-222563    | CE               | EE | SE | SE    |
| o-Chlorobenzalmalononitrile (CS)         | 2698-41-1          | MLTR/SYN  | INHAL | R2 M3   | TR-377     | PB90-256280    | NE               | NE | NE | NE    |
| Chlorobenzene                            | 108-90-7           | COSM      | GAV   | R2 M3   | TR-261     | PB86-144714    | E                | N  | N  | N     |
| Chlorobenzilate                          | 510-15-6           | PEST/SYN  | FEED  | R1 M3   | TR-075     | PB287123       | E                | E  | P  | P     |
| Chlorodibromomethane                     | 124-48-1           | LABC/NATL | GAV   | R2 M3   | TR-282     | PB86-166675    | NE               | NE | EE | EE    |
| Chloroethane                             | 75-00-3            | INTR/SYN  | INHAL | R2 M3   | TR-346     | PB90-225053    | EE               | EE | IS | IS    |
| 2-Chloroethanol (ethylene chlorohydrin)  | 107-07-3           | SOLV/SYN  | SP    | R2 M4   | TR-275     | PB86-145513    | NE               | NE | NE | NE    |
| bis(2-Chloroethoxy)methane               | 111-91-1           | SOLV/SYN  | SP    | R2 M22  | TR-536     | PB2011-113465  | NE               | NE | NE | NE    |
| 2-Chloroethyltrimethylammonium chloride  | 999-81-5           | FOOD/SYN  | FEED  | R2 M3   | TR-158     | PB293627       | N                | N  | N  | N     |
| Chloroform                               | 67-66-3            | SOLV/SYN  | GAV   | R1 M3   | TR-000     | PB264018       | P                | N  | P  | P     |
|  |                    |           |       |         | (67-66-3)  |                |                  |    |    |       |
| 3-Chloro-2-methylpropene                 | 563-47-3           | FUME/SYN  | GAV   | R2 M3   | TR-300     | PB86-247293    | CE               | CE | CE | CE    |
| 2-Chloromethylpyridine hydrochloride     | 6959-47-3          | INTR/SYN  | GAV   | R2 M3   | TR-178     | PB295895       | N                | N  | N  | N     |
| 3-Chloromethylpyridine hydrochloride     | 6959-48-4          | INTR      | GAV   | R2 M3   | TR-095     | PB287125       | P                | E  | P  | P     |
| 4-Chloro-m-phenylenediamine              | 5131-60-2          | COSM/SYN  | FEED  | R2 M3   | TR-085     | PB285201       | P                | N  | N  | N     |
| 4-Chloro-o-phenylenediamine              | 95-83-0            | DYE/SYN   | FEED  | R2 M3   | TR-063     | PB283362       | P                | P  | P  | P     |
| 2-Chloro-p-phenylenediamine sulfate      | 61702-44-1         | DYE/SYN   | FEED  | R2 M3   | TR-113     | PB286370       | N                | N  | N  | N     |
| Chloropicrin                             | 76-06-2            | PEST/SYN  | GAV   | R1 M3   | TR-065     | PB282311       | I                | I  | N  | N     |
| Chloroprene                              | 126-99-8           | PLAS/SYN  | INHAL | R2 M3   | TR-467     | PB99-123671    | CE               | CE | CE | CE    |
| 1-Chloro-2-propanol, technical           | 127-00-4           | INTR/SYN  | WATER | R2 M3   | TR-477     | PB99-119240    | NE               | NE | NE | NE    |
| Chlorothalonil                           | 1897-45-6          | PEST/SYN  | FEED  | R1 M3   | TR-041     | PB286369       | P                | P  | N  | N     |
| 3-Chloro-p-toluidine                     | 95-74-9            | DYE/SYN   | FEED  | R2 M3   | TR-145     | PB287401       | N                | N  | N  | N     |
| 5-Chloro-o-toluidine                     | 95-79-4            | INTR/SYN  | FEED  | R2 M3   | TR-187     | PB291468       | N                | N  | P  | P     |
| 4-Chloro-o-toluidine hydrochloride       | 3165-93-3          | INTR/SYN  | FEED  | R2 M3   | TR-165     | PB295864       | N                | N  | P  | P     |
| p-Chloro-a,a,a-trifluorotoluene          | 98-56-6            | SYN       | INHAL | M3 HSD  | TR-594     |                | SE               | SE | CE | CE    |
| Chlorpheniramine maleate                 | 113-92-8           | PHAR/SYN  | GAV   | R2 M3   | TR-317     | PB87-146759    | NE               | NE | NE | NE    |
| Chlorpropamide                           | 94-20-2            | PHAR/SYN  | FEED  | R2 M3   | TR-045     | PB275178       | N                | N  | N  | N     |
| Chromium picolinate monohydrate          | 27882-76-4         | DIET/SYN  | FEED  | R2 M22  | TR-556     | PB2010-115374  | EE               | NE | NE | NE    |
| C.I. Acid Orange 3                       | 6373-74-6          | DYE/SYN   | GAV   | R2 M3   | TR-335     | PB89-216550    | NE               | CE | NE | NE    |
| C.I. Acid Orange 10                      | 1936-15-8          | DYE/SYN   | FEED  | R2 M3   | TR-211     | PB88-169347    | N                | N  | N  | N     |
| C.I. Acid Red 14                         | 3567-69-9          | DYE/SYN   | FEED  | R2 M3   | TR-220     | PB82-201468    | N                | N  | N  | N     |
| C.I. Acid Red 114                        | 6459-94-5          | DYE       | WATER | R2      | TR-405     | PB92-189380    | CE               | CE |    |       |
| C.I. Basic Red 9 Monohydrochloride       | 569-61-9           | DYE/SYN   | FEED  | R2 M3   | TR-285     | PB86-186509    | CE               | CE | CE | CE    |
| C.I. Direct Blue 15                      | 2429-74-5          | DYE       | WATER | R2      | TR-397     | PB93-126373    | CE               | CE |    |       |
| C.I. Direct Blue 218                     | 28407-37-6         | DYE       | FEED  | R2 M3   | TR-430     | PB94-215993    | SE               | NE | CE | CE    |
| C.I. Disperse Blue 1                     | 2475-45-8          | DYE/SYN   | FEED  | R2 M3   | TR-299     | PB86-248051    | CE               | CE | EE | EE    |
| C.I. Disperse Yellow 3                   | 2832-40-8          | DYE       | FEED  | R2 M3   | TR-222     | PB82-230061    | P                | N  | N  | N     |
| trans-Cinnamaldehyde                     | 14371-10-9         | FOOD/NATL | MICRO | R2 M3   | TR-514     | PB2004-104394  | NE               | NE | NE | NE    |
| Cinnamyl anthranilate                    | 87-29-6            | FOOD/SYN  | FEED  | R2 M3   | TR-196     | PB81-143141    | P                | N  | P  | P     |
| C.I. Pigment Red 3                       | 2425-85-6          | DYE       | FEED  | R2 M3   | TR-407     | PB92-191634    | SE               | SE | SE | SE    |
| C.I. Pigment Red 23                      | 6471-49-4          | DYE       | FEED  | R2 M3   | TR-411     | PB93-228435    | EE               | NE | NE | NE    |
| C.I. Solvent Yellow 14                   | 842-07-9           | DYE/SYN   | FEED  | R2 M3   | TR-226     | PB83-126474    | P                | P  | N  | N     |
| Citral                                   | 5392-40-5          | FOOD/NATL | MICRO | R2 M3   | TR-505     | PB2003-103040  | NE               | NE | NE | NE    |
| C.I. Vat Yellow 4                        | 128-66-5           | DYE       | FEED  | R2 M3   | TR-134     | PB288821       | N                | N  | P  | P     |
| Clonitralid                              | 1420-04-8          | PEST      | FEED  | R1 M3   | TR-091     | PB287124       | N                | E  | IS | IS    |

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See Page 4 for explanation of Carcnoegen Codes

Ref No. 16

Printed Long-Term and Short-Term Study Reports

Long-Term Studies

| CHEMICAL NAME  | PRIMARY CAS NUMBER | USE       | ROUTE | SPECIES   | RPT No. | NTIS ** NUMBER | CARCINOGEN CODES |    |    |      |
|--|--------------------|-----------|-------|-----------|---------|----------------|------------------|----|----|------|
|  |                    |           |       |           |         |                | MR               | FR | MM | FM** |
| Cobalt   | 7440-48-4          | IND/NATL  | INHAL | R2 RD M22 | TR-581  | PB2015-101829  | CE               | CE | CE | CE   |
| Cobalt sulfate heptahydrate                              | 10026-24-1         | DYE/NATL  | INHAL | R2 M3     | TR-471  | PB99-106627    | SE               | CE | CE | CE   |
| Coconut oil acid diethanolamine condensate               | 68603-42-9         | TEXL/N/S  | SP    | R2 M3     | TR-479  | PB2001-103205  | NE               | EE | CE | CE   |
| Codeine  | 76-57-3            | INTR/N/S  | FEED  | R2 M3     | TR-455  | PB97-116743    | NE               | NE | NE | NE   |
| Corn oil   | 8001-30-7          | FOOD/NATL | GAV   | R2        | TR-426  | PB95-103958    |                  |    |    |      |
| Coumaphos  | 56-72-4            | PEST/SYN  | FEED  | R2 M3     | TR-096  | PB290305       | N                | N  | N  | N    |
| Coumarin   | 91-64-5            | PHAR/NATL | GAV   | R2 M3     | TR-422  | PB94-215761    | SE               | EE | SE | SE   |
| m-Cresidine  | 102-50-1           | DYE       | GAV   | R2 M3     | TR-105  | PB286188       | P                | P  | IS | IS   |
| p-Cresidine  | 120-71-8           | DYE       | FEED  | R2 M3     | TR-142  | PB295835       | P                | P  | P  | P    |
| Cresols  | 1319-77-3          | DYE/N/S   | FEED  | R2 M22    | TR-550  | PB2008-114135  | EE               |    |    |      |
| Cumene   | 98-82-8            | ENVH/N/S  | INHAL | R2 M22    | TR-542  | PB2009-115394  | CE               | SE | CE | CE   |
| Cupferron  | 135-20-6           | REAG/SYN  | FEED  | R2 M3     | TR-100  | PB287409       | P                | P  | P  | P    |
| Cyttembena   | 21739-91-3         | CMOT/SYN  | IP/IJ | R2 M3     | TR-207  | PB82-163312    | P                | P  | N  | N    |
| Daminozide   | 1596-84-5          | HERB/SYN  | FEED  | R2 M3     | TR-083  | PB285073       | N                | P  | E  | E    |
| D&C Red No. 9  | 5160-02-1          | DYE/SYN   | FEED  | R2 M3     | TR-225  | PB82-229592    | P                | E  | N  | N    |
| D&C Yellow No. 11  | 8003-22-3          | COSM/SYN  | FEED  | R2        | TR-463  | PB97-107154    | SE               | SE |    |      |
| Decabromodiphenyl Ether                                  | 1163-19-5          | FLAM      | FEED  | R2 M3     | TR-309  | PB86-247780    | SE               | SE | EE | EE   |
| Decalin  | 91-17-8            | LABC/SYN  | INHAL | R2 RB M3  | TR-513  | PB2005-107379  | CE               | NE | NE | NE   |
| Diallyl phthalate  | 131-17-9           | PLAS      | GAV   | M3        | TR-242  | PB83-200824    |                  |    | E  | E    |
| Diallyl phthalate  | 131-17-9           | PLAS      | GAV   | R2        | TR-284  | PB86-203742    | NE               | EE |    |      |
| 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt | 7336-20-1          | DYE/SYN   | FEED  | R2 M3     | TR-412  | PB93-132504    | NE               | NE | NE | NE   |
| 2,4-Diaminoanisole sulfate                               | 39156-41-7         | DYE/SYN   | FEED  | R2 M3     | TR-084  | PB279940       | P                | P  | P  | P    |
| 2,4-Diaminophenol dihydrochloride                        | 137-09-7           | PHOT/SYN  | GAV   | R2 M3     | TR-401  | PB93-117919    | NE               | NE | SE | SE   |
| 2,4-Diaminotoluene (2,4-toluene diamine)                 | 95-80-7            | DYE/SYN   | FEED  | R2 M3     | TR-162  | PB293593       | P                | P  | N  | N    |
| Diarylanilide yellow                                     | 6358-85-6          | DYE       | FEED  | R2 M3     | TR-030  | PB278272       | N                | N  | N  | N    |
| Diazinon   | 333-41-5           | PEST/SYN  | FEED  | R2 M3     | TR-137  | PB293889       | N                | N  | N  | N    |
| Dibenzo-p-dioxin   | 262-12-4           | COMT/SYN  | FEED  | R1 M3     | TR-122  | PB288475       | N                | N  | N  | N    |
| 1,2-Dibromo-3-chloropropane                              | 96-12-8            | FUME/SYN  | GAV   | R1 M3     | TR-028  | PB277472       | P                | P  | P  | P    |
| 1,2-Dibromo-3-chloropropane                              | 96-12-8            | FUME/SYN  | INHAL | R2 M3     | TR-206  | PB82-225632    | P                | P  | P  | P    |
| 1,2-Dibromo-2,4-dicyanobutane                            | 35691-65-7         | FUNG/SYN  | SP    | R2 M22    | TR-555  | PB2010-113180  | NE               | NE | NE | NE   |
| 1,2-Dibromoethane  | 106-93-4           | PEST/SYN  | GAV   | R1 M3     | TR-086  | PB288428       | P                | P  | P  | P    |
| 1,2-Dibromoethane  | 106-93-4           | PEST/SYN  | INHAL | R2 M3     | TR-210  | PB82-181710    | P                | P  | P  | P    |
| 2,3-Dibromo-1-propanol                                   | 96-13-9            | FLAM/SYN  | SP    | R2 M3     | TR-400  | PB94-206687    | CE               | CE | CE | CE   |
| Dibutyl Phthalate  | 84-74-2            | FUNG/SYN  | FEED  | M3 HSD    |         |                |                  |    |    |      |
| Dibutyltin diacetate                                     | 1067-33-0          | INTR/SYN  | FEED  | R2 M3     | TR-183  | PB291567       | N                | IS | N  | N    |
| 1,2-Dichlorobenzene (o-dichlorobenzene)                  | 95-50-1            | PEST/SYN  | GAV   | R2 M3     | TR-255  | PB86-144888    | N                | N  | N  | N    |
| 1,4-Dichlorobenzene (p-dichlorobenzene)                  | 106-46-7           | PEST/SYN  | GAV   | R2 M3     | TR-319  | PB87-208617    | CE               | NE | CE | CE   |
| 2,7-Dichlorodibenzo-p-dioxin                             | 33857-26-0         | GERM/SYN  | FEED  | R1 M3     | TR-123  | PB290570       | N                | N  | E  | E    |
| p,p'-Dichlorodiphenyl dichloroethylene                   | 72-55-9            | ENVH/SYN  | FEED  | R1 M3     | TR-131  | PB286367       | N                | N  | P  | P    |
| p,p'-Dichlorodiphenyl sulfone                            | 80-07-9            | PLAS      | FEED  | R2 M3     | TR-501  | PB2002-100580  | NE               | NE | NE | NE   |
| Dichlorodiphenyltrichloroethane (DDT)                    | 50-29-3            | ENVH/SYN  | FEED  | R1 M3     | TR-131  | PB286367       | N                | N  | N  | N    |
| 1,1-Dichloroethane                                       | 75-34-3            | SOLV/SYN  | GAV   | R1 M3     | TR-066  | PB283345       | N                | E  | N  | N    |
| 1,2-Dichloroethane                                       | 107-06-2           | FUME/SYN  | GAV   | R1 M3     | TR-055  | PB285968       | P                | P  | P  | P    |
| 2,4-Dichlorophenol                                       | 120-83-2           | ENVH/SYN  | FEED  | R2 M3     | TR-353  | PB90-106170    | NE               | NE | NE | NE   |
| 2,6-Dichloro-p-phenylenediamine                          | 609-20-1           | INTR      | FEED  | R2 M3     | TR-219  | PB82-184052    | N                | N  | P  | P    |
| 1,2-Dichloropropane (propylene dichloride)               | 78-87-5            | FUEL/SYN  | GAV   | R2 M3     | TR-263  | PB87-114443    | NE               | EE | SE | SE   |
| 1,3-Dichloropropene (Telone II)                          | 542-75-6           | PEST/SYN  | GAV   | R2 M3     | TR-269  | PB85-230449    | CE               | SE | IS | IS   |
| Dichlorvos   | 62-73-7            | PEST/SYN  | FEED  | R1 M3     | TR-010  | PB270937       | N                | N  | N  | N    |
| Dichlorvos   | 62-73-7            | PEST/SYN  | GAV   | R2 M3     | TR-342  | PB90-198508    | SE               | EE | SE | SE   |
| Dicofol  | 115-32-2           | PEST/SYN  | FEED  | R1 M3     | TR-090  | PB286206       | N                | N  | P  | P    |
| N,N'-Dicyclohexylthiourea                                | 1212-29-9          | REAG      | FEED  | R2 M3     | TR-056  | PB281539       | N                | N  | N  | N    |
| Dieldrin   | 60-57-1            | PEST/SYN  | FEED  | R1 M3     | TR-021  | PB275666       | N                | N  | E  | E    |
| Dieldrin   | 60-57-1            | PEST/SYN  | FEED  | R2        | TR-022  | PB275676       | N                | N  |    |      |
| Diesel fuel marine                                       | DIESELFUEL         | FUEL/N/S  | SP    | M3        | TR-310  | PB87-131678    |                  |    | EE | EE   |
| Diethanolamine   | 111-42-2           | TEXL/SYN  | SP    | R2 M3     | TR-478  | PB99-167553    | NE               | NE | CE | CE   |
| Diethylamine   | 109-89-7           | INTR/N/S  | INHAL | R2 M22    | TR-566  | PB2012-101985  | NE               | NE | NE | NE   |
| Di(2-ethylhexyl)adipate                                  | 103-23-1           | PLAS/SYN  | FEED  | R2 M3     | TR-212  | PB82-185927    | N                | N  | P  | P    |
| Di(2-ethylhexyl) Phthalate                               | 117-81-7           | PLAS/SYN  | FEED  | HSD       |         |                |                  |    |    |      |
| Di(2-ethylhexyl) Phthalate                               | 117-81-7           | PLAS/SYN  | FEED  | R2 M3     | TR-217  | PB82-184011    | P                | P  | P  | P    |
| Di(p-ethylphenyl)dichloroethane                          | 72-56-0            | PEST/SYN  | FEED  | R2 M3     | TR-156  | PB290582       | N                | N  | N  | N    |
| Diethyl phthalate  | 84-66-2            | COSM      | SP    | R2 M3     | TR-429  | PB96-162276    | NE               | NE | EE | EE   |
| Diethyl phthalate/dimethyl phthalate                     | DIETH DIMETH       | COSM      | SP    | M5        | TR-429  | PB96-162276    |                  |    |    |      |
| N,N'-Diethylthiourea                                     | 105-55-5           | METL/SYN  | FEED  | R2 M3     | TR-149  | PB288626       | P                | P  | N  | N    |
| Diglycidyl resorcinol ether (DGRE)                       | 101-90-6           | ADHS/NATL | GAV   | R2 M3     | TR-257  | PB87-146734    | P                | P  | P  | P    |
| 3,4-Dihydrocoumarin                                      | 119-84-6           | FOOD/NATL | GAV   | R2 M3     | TR-423  | PB95-103925    | SE               | NE | NE | NE   |
| 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)           | 147-47-7           | IND/SYN   | SP    | R2 M3 M7  | TR-456  | PB98-101009    | SE               | NE | NE | NE   |

\*\* MR = Male Rat, FR = Female Rat, MM = Male Mice, FM = Female Mice.  
See Page 4 for explanation of Carcnoegen Codes

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Printed Long-Term and Short-Term Study Reports

Long-Term Studies

| CHEMICAL NAME   | PRIMARY CAS NUMBER | USE       | ROUTE | SPECIES | RPT No.    | NTIS ** NUMBER | CARCINOGEN CODES |    |    |      |
|---|--------------------|-----------|-------|---------|------------|----------------|------------------|----|----|------|
|   |                    |           |       |         |            |                | MR               | FR | MM | FM** |
| 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)        | 147-47-7           | IND/SYN   | SP    | R2 M3   | TR-456     | PB98-101009    |                  |    |    |      |
| Diisopropylcarbodiimide                               | 693-13-0           | INTR/SYN  | SP    | R2 M3   | TR-523     | PB2007107705   | NE               | NE | NE | NE   |
| Dimethoate  | 60-51-5            | PEST/SYN  | FEED  | R1 M3   | TR-004     | PB264367       | N                | N  | N  | N    |
| Dimethoxane   | 828-00-2           | PNT/SYN   | GAV   | R2 M3   | TR-354     | PB90-220096    | NE               | NE | EE | EE   |
| 2,4-Dimethoxyaniline hydrochloride                    | 54150-69-5         | DYE       | FEED  | R2 M3   | TR-171     | PB288625       | N                | N  | N  | N    |
| 3,3'-Dimethoxybenzidine dihydrochloride               | 20325-40-0         | DYE       | WATER | R2      | TR-372     | PB90-241076    | CE               | CE |    |      |
| 3,3'-Dimethoxybenzidine-4,4'-diisocyanate             | 91-93-0            | INTR/SYN  | FEED  | R2 M3   | TR-128     | PB290154       | P                | P  | N  | N    |
| N,N-Dimethylaniline                                   | 121-69-7           | DYE/SYN   | GAV   | R2 M3   | TR-360     | PB90-227240    | SE               | NE | NE | NE   |
| 3,3'-Dimethylbenzidine dihydrochloride                | 612-82-8           | DYE       | WATER | R2      | TR-390     | PB92-103779    | CE               | CE |    |      |
| Dimethyl hydrogen phosphite                           | 868-85-9           | FLAM/SYN  | GAV   | R2 M3   | TR-287     | PB86-144805    | CE               | EE | NE | NE   |
| Dimethyl methylphosphonate                            | 756-79-6           | FLAM/SYN  | GAV   | R2 M3   | TR-323     | PB88-168695    | SE               | NE | IS | IS   |
| Dimethyl morpholinophosphoramidate                    | 597-25-1           | MLTR      | GAV   | R2 M3   | TR-298     | PB86-186491    | SE               | SE | NE | NE   |
| Dimethyl terephthalate                                | 120-61-6           | TEXL/SYN  | FEED  | R2 M3   | TR-121     | PB299903       | N                | N  | E  | E    |
| N,N-Dimethyl-p-toluidine                              | 99-97-8            | INTR/SYN  | GAV   | R2 M22  | TR-579     | PB2013-101130  | CE               | CE | CE | CE   |
| Dimethylvinyl chloride (DMVC)                         | 513-37-1           | INTR/SYN  | GAV   | R2 M3   | TR-316     | PB87-115184    | CE               | CE | CE | CE   |
| 2,4-Dinitrotoluene                                    | 121-14-2           | DYE/SYN   | FEED  | R2 M3   | TR-054     | PB280990       | P                | P  | N  | N    |
| 1,4-Dioxane   | 123-91-1           | DYE/SYN   | WATER | R1 M3   | TR-080     | PB285711       | P                | P  | P  | P    |
| Dioxathion  | 78-34-2            | PEST/SYN  | FEED  | R1 M3   | TR-125     | PB286185       | N                | N  | N  | N    |
| Diphenhydramine hydrochloride                         | 147-24-0           | PHAR/SYN  | FEED  | R2 M3   | TR-355     | PB90-219437    | EE               | EE | NE | NE   |
| 5,5-Diphenylhydantoin (phenytoin)                     | 57-41-0            | PHAR/SYN  | FEED  | R2 M3   | TR-404     | PB94-216009    | EE               | NE | NE | NE   |
| Dipropylene glycol                                    | 25265-71-8         | INTR      | WATER | R2 M3   | TR-511     | PB2005100832   | NE               | NE | NE | NE   |
| 2,5-Dithiobiurea                                      | 142-46-1           | PHOT/SYN  | FEED  | R2 M3   | TR-132     | PB291535       | N                | N  | N  | N    |
| Divinylbenzene  | 1321-74-0          | PLAS      | INHAL | R2 M22  | TR-534     | PB2007-103745  | EE               | NE | NE | NE   |
| Doxylamine  | 469-21-6           | PHAR/SYN  | FEED  | R2 M3   | NR-406/407 |                |                  |    |    |      |
| Elmiron (sodium pentosanpolysulfate)                  | 37319-17-8         | PHAR/SYN  | GAV   | R2 M3   | TR-512     | PB2004-106612  | NE               | NE | SE | SE   |
| Emetine hydrochloride                                 | 316-42-7           | CMOT/NATL | IP/IJ | R8 M3   | TR-043     | PB278891       | IS               | IS | IS | IS   |
| Emodin  | 518-82-1           | PHAR/NATL | FEED  | R2 M3   | TR-493     | PB2001-108194  | NE               | EE | EE | EE   |
| Endocrine disruptor (Ethinyl estradiol)               | 57-63-6            | PHAR/N/S  | FEED  | R8      | TR-548     | PB2011-100789  | NE               | NE |    |      |
| Endocrine disruptor (Ethinyl estradiol)               | 57-63-6            | PHAR/N/S  | FEED  | HSD     | TR-548     | PB2011-100789  | NE               | EE |    |      |
| Endocrine disruptor (Ethinyl estradiol)               | 57-63-6            | PHAR/N/S  | FEED  | HSD     | TR-548     | PB2011-100789  | EE               | EE |    |      |
| Endocrine disruptor (Genistein)                       | 446-72-0           | NATL/NATL | FEED  | R8      | TOX-79     | PB2009-115650  |                  |    |    |      |
| Endosulfan  | 115-29-7           | PEST/SYN  | FEED  | R1 M3   | TR-062     | PB281731       | IS               | N  | IS | IS   |
| Endrin  | 72-20-8            | PEST/SYN  | FEED  | R1 M3   | TR-012     | PB288461       | N                | N  | N  | N    |
| Ephedrine sulfate                                     | 134-72-5           | PHAR/N/S  | FEED  | R2 M3   | TR-307     | PB86-247285    | NE               | NE | NE | NE   |
| Epinephrine hydrochloride                             | 55-31-2            | PHAR/NATL | INHAL | R2 M3   | TR-380     | PB91-142323    | IS               | IS | IS | IS   |
| 1,2-Epoxybutane                                       | 106-88-7           | FUEL/SYN  | INHAL | R2 M3   | TR-329     | PB88-216262    | CE               | EE | NE | NE   |
| Erythromycin stearate                                 | 643-22-1           | PHAR/NATL | FEED  | R2 M3   | TR-338     | PB89-178537    | NE               | NE | NE | NE   |
| Estradiol mustard                                     | 22966-79-6         | CMOT      | GAV   | R8 M3   | TR-059     | PB285787       | N                | N  | P  | P    |
| Ethanol   | 64-17-5            | PHAR/N/S  | WATER | MV      | TR-510     | PB2005-103486  |                  |    | IS | IS   |
| Ethionamide   | 536-33-4           | CMOT/SYN  | FEED  | R2 M3   | TR-046     | PB285193       | N                | N  | N  | N    |
| Ethyl acrylate  | 140-88-5           | COSM/SYN  | GAV   | R2 M3   | TR-259     | PB87-204061    | P                | P  | P  | P    |
| Ethylbenzene  | 100-41-4           | FUEL/SYN  | INHAL | R2 M3   | TR-466     | PB99-134694    | CE               | SE | SE | SE   |
| Ethylene glycol                                       | 107-21-1           | TEXL/SYN  | FEED  | M3      | TR-413     | PB93-228427    |                  |    | NE | NE   |
| Ethylene oxide  | 75-21-8            | FUME/SYN  | INHAL | M3      | TR-326     | PB88-169859    |                  |    | CE | CE   |
| Ethylene thiourea (ETU)                               | 96-45-7            | PEST/SYN  | FEED  | R2 M3   | TR-388     | PB92-191618    | CE               | CE | CE | CE   |
| Ethyl tellurac  | 20941-65-5         | RUBR/SYN  | FEED  | R2 M3   | TR-152     | PB298513       | E                | N  | E  | E    |
| Eugenol   | 97-53-0            | PHAR/NATL | FEED  | R2 M3   | TR-223     | PB84-186402    | N                | N  | E  | E    |
| FD & C Yellow No. 6                                   | 2783-94-0          | DYE/SYN   | FEED  | R2 M3   | TR-208     | PB82-117433    | N                | N  | N  | N    |
| Feed restriction studies                              | FEEDRESTRICT       | FEED      | MULTI | R2 M3   | TR-460     | PB98-131014    |                  |    |    |      |
| Formulated fenaminosulf                               | 140-56-7           | FUNG      | FEED  | R2 M3   | TR-101     | PB287443       | N                | N  | N  | N    |
| Fenthion  | 55-38-9            | PEST/SYN  | FEED  | R2 M3   | TR-103     | PB293832       | N                | N  | E  | E    |
| Fish project 1 (2,2-bis(Bromomethyl)-1,3-propanediol) | 3296-90-0          | FLAM      | AQUAT | F1      | TR-528     | PB 2006-102382 |                  |    |    |      |
| Fish project 1 (2,2-bis(Bromomethyl)-1,3-propanediol) | 3296-90-0          | FLAM      | AQUAT | F2      | TR-528     | PB 2006-102382 |                  |    |    |      |
| Fish Project 1 (Nitromethane)                         | 75-52-5            | FUEL      | AQUAT | F1      | TR-528     | PB 2006-102382 |                  |    |    |      |
| Fish Project 1 (Nitromethane)                         | 75-52-5            | FUEL      | AQUAT | F2      | TR-528     | PB 2006-102382 |                  |    |    |      |
| Fish project 1 (1,2,3-Trichloropropane)               | 96-18-4            | INTR      | AQUAT | F1      | TR-528     | PB 2006-102382 |                  |    |    |      |
| Fish project 1 (1,2,3-Trichloropropane)               | 96-18-4            | INTR      | AQUAT | F2      | TR-528     | PB 2006-102382 |                  |    |    |      |
| Fluometuron   | 2164-17-2          | HERB/SYN  | FEED  | R2 M3   | TR-195     | PB80-217904    | N                | N  | E  | E    |
| Formamide   | 75-12-7            | SOLV/SYN  | GAV   | R2 M22  | TR-541     | PB2009-115393  | NE               | NE | CE | CE   |
| Fumonisin B1  | 116355-83-0        | FEED/NATL | FEED  | R2 MV   | TR-496     | PB2002-103492  | CE               | NE | NE | NE   |
| Furan   | 110-00-9           | DTRG/N/S  | GAV   | R2 M3   | TR-402     | PB93-228419    | CE               | CE | CE | CE   |
| Furfural  | 98-01-1            | INTR/N/S  | GAV   | R2 M3   | TR-382     | PB91-108662    | SE               | NE | CE | CE   |
| Furfuryl alcohol                                      | 98-00-0            | FOOD/N/S  | INHAL | R2 M3   | TR-482     | PB99-151482    | SE               | EE | SE | SE   |
| Furosemide  | 54-31-9            | PHAR/SYN  | FEED  | R2 M3   | TR-356     | PB90-106162    | EE               | NE | NE | NE   |
| Gallium arsenide                                      | 1303-00-0          | ELEC/SYN  | INHAL | R2 M3   | TR-492     | PB2001-102003  | NE               | CE | NE | NE   |
| Geranyl acetate                                       | 105-87-3           | FOOD/NATL | GAV   | R2 M3   | TR-252     | PB88-174313    | N                | N  | N  | N    |
| Ginkgo biloba extract                                 | 90045-36-6         | DIET/NATL | GAV   | R2 M22  | TR-578     | PB2013-107073  | SE               | SE | CE | CE   |
| Ginseng   | 50647-08-0         | DIET/NATL | GAV   | R2 M22  | TR-567     | PB2012100177   | NE               | NE | NE | NE   |

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See Page 4 for explanation of Carcinogen Codes

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Printed Long-Term and Short-Term Study Reports

Long-Term Studies

| CHEMICAL NAME   | PRIMARY CAS NUMBER | USE       | ROUTE | SPECIES  | RPT No. | NTIS ** NUMBER | CARCINOGEN CODES |    |    |      |
|---|--------------------|-----------|-------|----------|---------|----------------|------------------|----|----|------|
|   |                    |           |       |          |         |                | MR               | FR | MM | FM** |
| Glutaraldehyde  | 111-30-8           | ADHS/SYN  | INHAL | R2 M3    | TR-490  | PB2000-1014184 | NE               | NE | NE | NE   |
| Glycidamide   | 5694-00-8          | LABC/SYN  | WATER | RC MV    | TR-588  | PB2015-102754  | CE               | CE | CE | CE   |
| Glycidol  | 556-52-5           | SOLV/SYN  | GAV   | R2 M3    | TR-374  | PB90-259094    | CE               | CE | CE | CE   |
| Goldenseal root powder  | GOLDENSEALRT       | DIET/NATL | FEED  | R2 M22   | TR-562  | PB2011-101388  | CE               | CE | SE | SE   |
| Green Tea Extract   | GREENTEAEXTR       | DIET/NATL | GAV   | RD RE    | TR-585  | PB2018100060   | NE               | NE | NE | NE   |
| Guar gum  | 9000-30-0          | FOOD/NATL | FEED  | R2 M3    | TR-229  | PB82-202813    | N                | N  | N  | N    |
| Gum Arabic  | 9000-01-5          | FOOD/NATL | FEED  | R2 M3    | TR-227  | PB82-229584    | N                | N  | N  | N    |
| HC Blue 1   | 2784-94-3          | DYE/SYN   | FEED  | R2 M3    | TR-271  | PB86-114683    | EE               | SE | CE | CE   |
| HC Blue 2   | 33229-34-4         | DYE/SYN   | FEED  | R2 M3    | TR-293  | PB86-108339    | NE               | NE | NE | NE   |
| HC Red 3  | 2871-01-4          | DYE/SYN   | GAV   | R2 M3    | TR-281  | PB86-188075    | NE               | NE | EE | EE   |
| HC Yellow 4   | 59820-43-8         | DYE/SYN   | FEED  | R2 M3    | TR-419  | PB93-123883    | EE               | NE | NE | NE   |
| Heptachlor  | 76-44-8            | PEST/SYN  | FEED  | R1 M3    | TR-009  | PB271967       | N                | E  | P  | P    |
| Hexachlorocyclopentadiene   | 77-47-4            | FLAM/SYN  | INHAL | R2 M3    | TR-437  | PB94-214186    | NE               | NE | NE | NE   |
| 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin                                  | 57653-85-7         | PEST      | GAV   | R1 M3    | TR-198  | PB81-124844    | E                | P  | P  | P    |
| 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin                                  | 57653-85-7         | PEST      | SP    | M6       | TR-202  | PB81-124836    |                  |    | N  | N    |
| Hexachloroethane  | 67-72-1            | SOLV/SYN  | GAV   | R1 M3    | TR-068  | PB282668       | N                | N  | P  | P    |
| Hexachloroethane  | 67-72-1            | SOLV/SYN  | GAV   | R2       | TR-361  | PB90-170895    | CE               | NE |    |      |
| Hexachlorophene   | 70-30-4            | GERM/SYN  | FEED  | R2       | TR-040  | PB279525       | N                | N  |    |      |
| 2,4-Hexadienal  | 142-83-6           | FOOD/N/S  | GAV   | R2 M3    | TR-509  | PB2004102548   | CE               | CE | CE | CE   |
| Hexamethyl-p-rosaniline chloride  | 548-62-9           | PHAR/SYN  | FEED  | R2       | NR-338  |                |                  |    |    |      |
| Hexamethyl-p-rosaniline chloride  | 548-62-9           | PHAR/SYN  | FEED  | M3       | NR-304  |                |                  |    |    |      |
| 4-Hexylresorcinol   | 136-77-6           | PHAR/SYN  | GAV   | R2 M3    | TR-330  | PB89-128607    | NE               | NE | EE | EE   |
| Hydrazobenzene  | 122-66-7           | REAG/SYN  | FEED  | R2 M3    | TR-092  | PB285791       | P                | P  | N  | N    |
| Hydrochlorothiazide   | 58-93-5            | PHAR/SYN  | FEED  | R2 M3    | TR-357  | PB90-110156    | NE               | NE | EE | EE   |
| Hydroquinone  | 123-31-9           | COSM/N/S  | GAV   | R2 M3    | TR-366  | PB90-240839    | SE               | SE | NE | NE   |
| 5-(Hydroxymethyl)-2-furfural  | 67-47-0            | NATL/N/S  | GAV   | R2 M22   | TR-554  | PB2010-113179  | NE               | NE | NE | NE   |
| 8-Hydroxyquinoline  | 148-24-3           | GERM/N/S  | FEED  | R2 M3    | TR-276  | PB85-213361    | NE               | NE | NE | NE   |
| ICRF-159  | 21416-87-5         | CMOT      | IP/IJ | R8 M3    | TR-078  | PB285853       | N                | P  | N  | N    |
| IPD (3,3'-iminobis-1-propanol dimethanesulfonate (ester) hydrochloride) | 3458-22-8          | CMOT      | IP/IJ | R8 M3    | TR-018  | PB277455       | E                | E  | E  | E    |
| Indium phosphide  | 22398-80-7         | ELEC/SYN  | INHAL | R2 M3    | TR-499  | PB2002-100069  | CE               | CE | CE | CE   |
| Indole-3-carbinol   | 700-06-1           | DIET/N/S  | GAV   | M3 HSD   | TR-584  | PB2018100059   | NE               | SE | CE | CE   |
| Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)                   | INIT/PROM          | LABC/SYN  | SP    | M3       | TR-441  | PB96-214655    |                  |    |    |      |
| Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)                   | INIT/PROM          | LABC/SYN  | SP    | M5       | TR-441  | PB96-214655    |                  |    |    |      |
| Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)                   | INIT/PROM          | LABC/SYN  | SP    | M3 M5 M7 | TR-441  | PB96-214655    |                  |    |    |      |
| Interferon AD (AIDS Initiative)   | INTERFERONAD       | PHAR/NATL | SC/IJ | M3       | TR-469  | PB99-145807    |                  |    |    |      |
| Interferon AD + 3'-azido-3'-deoxythymidine (AIDS Initiative)            | INTAZTCOMB         | PHAR/SYN  | SC&GV | M3       | TR-469  | PB99-145807    |                  |    |    |      |
| Interferon A (AIDS Initiative)  | 76543-88-9         | PHAR/SYN  | SC/IJ | M3       | TR-469  | PB99-145807    |                  |    |    |      |
| Iodinated glycerol  | 5634-39-9          | PHAR/SYN  | GAV   | R2 M3    | TR-340  | PB90-259102    | SE               | NE | NE | NE   |
| Iodoform  | 75-47-8            | PHAR/SYN  | GAV   | R1 M3    | TR-110  | PB286344       | N                | N  | N  | N    |
| Isobutene   | 115-11-7           | RUBR/SYN  | INHAL | R2 M3    | TR-487  | PB99-147670    | SE               | NE | NE | NE   |
| Isobutyl nitrite  | 542-56-3           | ENVH/SYN  | INHAL | R2 M3    | TR-448  | PB97-120232    | CE               | CE | SE | SE   |
| Isobutyraldehyde  | 78-84-2            | INTR/N/S  | INHAL | R2 M3    | TR-472  | PB99-134785    | NE               | NE | NE | NE   |
| Isoeugenol  | 97-54-1            | FOOD/NATL | GAV   | R2 M22   | TR-551  | PB2012111404   | EE               | NE | CE | CE   |
| Isophorone  | 78-59-1            | INTR/SYN  | GAV   | R2 M3    | TR-291  | PB86-181823    | SE               | NE | EE | EE   |
| Isophosphamide  | 3778-73-2          | CMOT/SYN  | IP/IJ | R8 M3    | TR-032  | PB275677       | N                | P  | N  | N    |
| Isoprene  | 78-79-5            | RUBR/N/S  | INHAL | R2       | TR-486  | PB2000-101651  | CE               | SE |    |      |
| Kava kava extract   | 9000-38-8          | COSM      | GAV   | R2 M22   | TR-571  | PB2012-107445  | EE               | NE | CE | CE   |
| Lasiocarpine  | 303-34-4           | PHAR/NATL | FEED  | R2       | TR-039  | PB278641       | P                | P  |    |      |
| Lauric acid diethanolamine condensate                                   | 120-40-1           | DTRG/SYN  | SP    | R2 M3    | TR-480  | PB99-169989    | NE               | NE | NE | NE   |
| Lead dimethyldithiocarbamate  | 19010-66-3         | OCCH      | FEED  | R2 M3    | TR-151  | PB298512       | N                | N  | N  | N    |
| Leucomalachite green  | 129-73-7           | FUNG/SYN  | FEED  | R2 MV    | C20007  |                | EE               | EE |    |      |
| D-Limonene  | 5989-27-5          | FOOD/NATL | GAV   | R2 M3    | TR-347  | PB90-231416    | CE               | NE | NE | NE   |
| Lindane   | 58-89-9            | PEST/SYN  | FEED  | R1 M3    | TR-014  | PB273480       | N                | N  | N  | N    |
| Lithocholic acid  | 434-13-9           | LABC/NATL | GAV   | R2 M3    | TR-175  | PB288476       | N                | N  | N  | N    |
| Locust bean gum   | 9000-40-2          | FOOD/NATL | FEED  | R2 M3    | TR-221  | PB82-163320    | N                | N  | N  | N    |
| Magnetic fields (EMF)   | ELECTROMAG         | ELEC      | WB    | R2 M3    | TR-488  | PB99-152886    | EE               | NE | NE | NE   |
| Malachite green   | 569-64-2           | GERM/SYN  | FEED  | R2 MV    | TR-527  | PB2005-107573  |                  | EE |    |      |
| Malaoxon  | 1634-78-2          | PEST/SYN  | FEED  | R2 M3    | TR-135  | PB299858       | N                | N  | N  | N    |
| Malathion   | 121-75-5           | PEST/SYN  | FEED  | R1 M3    | TR-024  | PB278527       | N                | N  | N  | N    |
| Malathion   | 121-75-5           | PEST/SYN  | FEED  | R2       | TR-192  | PB300301       | N                | N  |    |      |
| Malonaldehyde, sodium salt  | 24382-04-5         | FOOD/NATL | GAV   | R2 M3    | TR-331  | PB89-204010    | CE               | CE | NE | NE   |
| Manganese sulfate monohydrate   | 10034-96-5         | DYE/NATL  | FEED  | R2 M3    | TR-428  | PB94-217148    | NE               | NE | EE | EE   |
| D-Mannitol  | 69-65-8            | PHAR/N/S  | FEED  | R2 M3    | TR-236  | PB83-129080    | N                | N  | N  | N    |
| Melamine  | 108-78-1           | INTR/SYN  | FEED  | R2 M3    | TR-245  | PB83-202630    | P                | N  | N  | N    |
| DL-menthol  | 15356-70-4         | PHAR/NATL | FEED  | R2 M3    | TR-098  | PB288761       | N                | N  | N  | N    |

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See Page 4 for explanation of Carcnoegen Codes

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Printed Long-Term and Short-Term Study Reports

Long-Term Studies

| CHEMICAL NAME                                 | PRIMARY CAS NUMBER | USE       | ROUTE | SPECIES | RPT No. | NTIS ** NUMBER | CARCINOGEN CODES |    |    |      |
|---|--------------------|-----------|-------|---------|---------|----------------|------------------|----|----|------|
|   |                    |           |       |         |         |                | MR               | FR | MM | FM** |
| 2-Mercaptobenzothiazole                       | 149-30-4           | RUBR/SYN  | GAV   | R2 M3   | TR-332  | PB88-245154    | SE               | SE | NE | NE   |
| Mercuric chloride                             | 7487-94-7          | WOOD/SYN  | GAV   | R2 M3   | TR-408  | PB94-101649    | SE               | EE | EE | EE   |
| Metal Working Fluids: CIMSTAR 3800            | CIMSTAR3800        | METL/SYN  | INHAL | RD RE   | TR-586  | PB2016102573   | EE               | EE | NE | NE   |
| Metal Working Fluids: TRIM® VX                | TRIMVX             | METL/SYN  | INHAL | RE M3   | C20523  |                | EE               | EE | CE | CE   |
| Methacrylonitrile                             | 126-98-7           | INTR/SYN  | GAV   | R2 M3   | TR-497  | PB2002-102199  | NE               | NE | NE | NE   |
| Methoxychlor                                  | 72-43-5            | PEST/SYN  | FEED  | R1 M3   | TR-035  | PB278271       | N                | N  | N  | N    |
| 8-Methoxyypsoralen                            | 298-81-7           | PHAR/NATL | GAV   | R2      | TR-359  | PB90-110164    | CE               | NE |    |      |
| alpha-Methylbenzyl alcohol                    | 98-85-1            | COSM/SYN  | GAV   | R2 M3   | TR-369  | PB90-241092    | SE               | NE | NE | NE   |
| Methyl bromide                                | 74-83-9            | FUME/SYN  | INHAL | M3      | TR-385  | PB92-189257    |                  |    | NE | NE   |
| Methyl carbamate                              | 598-55-0           | INTR/SYN  | GAV   | R2 M3   | TR-328  | PB88-168570    | CE               | CE | NE | NE   |
| Methyl dopa sesquihydrate                     | 41372-08-1         | PHAR/SYN  | FEED  | R2 M3   | TR-348  | PB89-216527    | NE               | NE | EE | EE   |
| 4,4'-Methylenebis(N,N-dimethyl)benzenamine    | 101-61-1           | DYE/SYN   | FEED  | R2 M3   | TR-186  | PB299856       | P                | P  | E  | E    |
| Methylene blue trihydrate                     | 7220-79-3          | DYE       | GAV   | R2 M3   | TR-540  | PB2015-102751  | SE               | NE | SE | SE   |
| Methylene chloride                            | 75-09-2            | SOLV/SYN  | INHAL | R2 M3   | TR-306  | PB86-187903    | SE               | CE | CE | CE   |
| 4,4'-Methylenedianiline dihydrochloride       | 13552-44-8         | INTR      | WATER | R2 M3   | TR-248  | PB83-238824    | P                | P  | P  | P    |
| Methyleugenol                                 | 93-15-2            | FOOD/NATL | GAV   | R2 M3   | TR-491  | PB2000-107865  | CE               | CE | CE | CE   |
| 2-Methylimidazole                             | 693-98-1           | INTR/N/S  | FEED  | R2 M22  | TR-516  | PB2005-103484  | SE               | CE | SE | SE   |
| 4-Methylimidazole                             | 822-36-6           | FOOD/N/S  | FEED  | R2 M3   | TR-535  | PB2007-106091  | NE               | EE | CE | CE   |
| Methyl isobutyl ketone                        | 108-10-1           | PNT/SYN   | INHAL | R2 M3   | TR-538  | PB2007-107706  | SE               | EE | SE | SE   |
| Methyl methacrylate                           | 80-62-6            | INTR/N/S  | INHAL | R2 M3   | TR-314  | PB87-146742    | NE               | NE | NE | NE   |
| 2-Methyl-1-nitroanthraquinone                 | 129-15-7           | INTR/SYN  | FEED  | R2 M3   | TR-029  | PB277439       | P                | P  | P  | P    |
| N-Methylolacrylamide                          | 924-42-5           | PLAS/SYN  | GAV   | R2 M3   | TR-352  | PB90-226374    | NE               | NE | CE | CE   |
| Methyl parathion                              | 298-00-0           | PEST/SYN  | FEED  | R2 M3   | TR-157  | PB295891       | N                | N  | N  | N    |
| Methylphenidate hydrochloride                 | 298-59-9           | PHAR/SYN  | FEED  | R2 M3   | TR-439  | PB96-162615    | NE               | NE | SE | SE   |
| alpha-Methylstyrene                           | 98-83-9            | ADHS      | INHAL | R2 M22  | TR-543  | PB2014-104052  | SE               | NE | EE | EE   |
| Methyl trans-styryl ketone                    | 1896-62-4          | COSM/SYN  | SP    | R2 M22  | TR-572  | PB2012112090   | NE               | NE | NE | NE   |
| Mexacarbate                                   | 315-18-4           | PEST/SYN  | FEED  | R1 M3   | TR-147  | PB287471       | N                | N  | N  | N    |
| Michler's ketone                              | 90-94-8            | DYE/SYN   | FEED  | R2 M3   | TR-181  | PB299855       | P                | P  | P  | P    |
| Milk thistle extract                          | 84604-20-6         | DIET/NATL | FEED  | R2 M22  | TR-565  | PB2011-110858  | NE               | NE | NE | NE   |
| Mirex   | 2385-85-5          | FLAM/SYN  | FEED  | R2      | TR-313  | PB90-241084    | CE               | CE |    |      |
| Molybdenum trioxide                           | 1313-27-5          | DYE/SYN   | INHAL | R2 M3   | TR-462  | PB98-107048    | EE               | NE | SE | SE   |
| Monochloroacetic acid                         | 79-11-8            | DYE/SYN   | GAV   | R2 M3   | TR-396  | PB92-189372    | NE               | NE | NE | NE   |
| Monuron                                       | 150-68-5           | HERB/SYN  | FEED  | R2 M3   | TR-266  | PB89-109615    | CE               | NE | NE | NE   |
| beta-Myrcene                                  | 123-35-3           | COSM/N/S  | GAV   | R2 M22  | TR-557  | PB2011-105235  | CE               | EE | CE | CE   |
| Nalidixic acid                                | 389-08-2           | PHAR/SYN  | FEED  | R2 M3   | TR-368  | PB90-256389    | CE               | CE | EE | EE   |
| Naphthalene                                   | 91-20-3            | INTR/NATL | INHAL | M3      | TR-410  | PB92-224260/AS |                  |    | NE | NE   |
| Naphthalene                                   | 91-20-3            | INTR/NATL | INHAL | R2      | TR-500  | PB2001-103699  | CE               | CE |    |      |
| 1,5-Naphthalenediamine                        | 2243-62-1          | INTR      | FEED  | R2 M3   | TR-143  | PB287646       | N                | P  | P  | P    |
| N-(1-Naphthyl)ethylenediamine dihydrochloride | 1465-25-4          | REAG      | FEED  | R2 M3   | TR-168  | PB289733       | N                | N  | N  | N    |
| Navy fuels JP-5                               | 8008-20-6          | FUEL/N/S  | SP    | M3      | TR-310  | PB87-131678    |                  |    | NE | NE   |
| Nickel (II) oxide                             | 1313-99-1          | ELEC/N/S  | INHAL | R2 M3   | TR-451  | PB97-116701    | SE               | SE | NE | NE   |
| Nickel sulfate hexahydrate                    | 10101-97-0         | ADHS/N/S  | INHAL | R2 M3   | TR-454  | PB97-120216    | NE               | NE | NE | NE   |
| Nickel subsulfide                             | 12035-72-2         | ENVH/N/S  | INHAL | R2 M3   | TR-453  | PB97-116784    | CE               | CE | NE | NE   |
| Nithiazide                                    | 139-94-6           | PHAR/SYN  | FEED  | R2 M3   | TR-146  | PB295897       | N                | P  | P  | P    |
| Nitrilotriacetic acid (NTA)                   | 139-13-9           | TEXTL/SYN | FEED  | R2 M3   | TR-006  | PB266177       | P                | P  | P  | P    |
| Nitrilotriacetic acid trisodium monohydrate   | 18662-53-8         | DTRG      | FEED  | R2      | TR-006  | PB266177       | P                | P  |    |      |
| Nitrilotriacetic acid trisodium monohydrate   | 18662-53-8         | DTRG      | FEED  | R2 M3   | TR-006  | PB266177       | E                | E  | N  | N    |
| 5-Nitroacenaphthene                           | 602-87-9           | DYE       | FEED  | R2 M3   | TR-118  | PB287347       | P                | P  | N  | N    |
| 3-Nitro-p-acetophenetide                      | 1777-84-0          | PHAR      | FEED  | R2 M3   | TR-133  | PB299857       | N                | N  | P  | P    |
| p-Nitroaniline                                | 100-01-6           | DYE/SYN   | GAV   | M3      | TR-418  | PB94-104528    |                  |    | EE | EE   |
| 5-Nitro-o-anisidine                           | 99-59-2            | INTR      | FEED  | R2 M3   | TR-127  | PB287411       | P                | P  | E  | E    |
| o-Nitroanisole                                | 91-23-6            | DYE/SYN   | FEED  | R2 M3   | TR-416  | PB94-109758    | CE               | CE | CE | CE   |
| 4-Nitroanthranilic acid                       | 619-17-0           | INTR      | FEED  | R2 M3   | TR-109  | PB286942       | N                | N  | N  | N    |
| 6-Nitrobenzimidazole                          | 94-52-0            | INTR      | FEED  | R2 M3   | TR-117  | PB293834       | N                | N  | P  | P    |
| p-Nitrobenzoic acid                           | 62-23-7            | DYE       | FEED  | R2 M3   | TR-442  | PB95-226254    | NE               | SE | NE | NE   |
| Nitrofen                                      | 1836-75-5          | HERB/SYN  | FEED  | R2 M3   | TR-184  | PB296038       | N                | N  | P  | P    |
| Nitrofen                                      | 1836-75-5          | HERB/SYN  | FEED  | R1 M3   | TR-026  | PB277440       | IS               | P  | P  | P    |
| Nitrofurantoin                                | 67-20-9            | PHAR/SYN  | FEED  | R2 M3   | TR-341  | PB90-197930    | SE               | NE | NE | NE   |
| Nitrofurazone                                 | 59-87-0            | PHAR/SYN  | FEED  | R2 M3   | TR-337  | PB89-102388    | EE               | CE | NE | NE   |
| Nitromethane                                  | 75-52-5            | FUEL/SYN  | INHAL | R2 M3   | TR-461  | PB97-205967    | NE               | CE | CE | CE   |
| 1-Nitronaphthalene                            | 86-57-7            | DYE/SYN   | FEED  | R2 M3   | TR-064  | PB282310       | N                | N  | N  | N    |
| p-Nitrophenol                                 | 100-02-7           | PEST/SYN  | SP    | M6      | TR-417  | PB94-109667    |                  |    | NE | NE   |
| 2-Nitro-p-phenylenediamine                    | 5307-14-2          | DYE       | FEED  | R2 M3   | TR-169  | PB290304       | N                | N  | N  | N    |
| 4-Nitro-o-phenylenediamine                    | 99-56-9            | REAG/SYN  | FEED  | R2 M3   | TR-180  | PB290306       | N                | N  | N  | N    |
| 3-Nitropropionic acid                         | 504-88-1           | FOOD/NATL | GAV   | R2 M3   | TR-052  | PB281102       | E                | N  | N  | N    |
| N-Nitrosodiphenylamine                        | 86-30-6            | FLAM      | FEED  | R2 M3   | TR-164  | PB298275       | P                | P  | N  | N    |
| p-Nitrosodiphenylamine                        | 156-10-5           | RUBR/SYN  | FEED  | R2 M3   | TR-190  | PB291500       | P                | N  | P  | P    |
| beta-Nitrostyrene                             | 102-96-5           | FUNG      | GAV   | R2 M3   | TR-170  | PB300949       | N                | N  | N  | N    |
| o-Nitrotoluene                                | 88-72-2            | RUBR/SYN  | FEED  | R2 M3   | TR-504  | PB2002-108715  | CE               | CE | CE | CE   |

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Printed Long-Term and Short-Term Study Reports

Long-Term Studies

| CHEMICAL NAME  | PRIMARY CAS NUMBER | USE       | ROUTE | SPECIES  | RPT No.    | NTIS ** NUMBER | CARCINOGEN CODES |    |    |      |
|--|--------------------|-----------|-------|----------|------------|----------------|------------------|----|----|------|
|  |                    |           |       |          |            |                | MR               | FR | MM | FM** |
| p-Nitrotoluene   | 99-99-0            | DYE/SYN   | FEED  | R2 M3    | TR-498     | PB2002-108714  | EE               | SE | EE | EE   |
| 5-Nitro-o-toluidine  | 99-55-8            | DYE       | FEED  | R2 M3    | TR-107     | PB285872       | N                | N  | P  | P    |
| Ochratoxin A   | 303-47-9           | COMT/NATL | GAV   | R2       | TR-358     | PB90-219478    | CE               | CE |    |      |
| Oleic acid diethanolamine condensate                       | 93-83-4            | COSM/SYN  | SP    | R2 M3    | TR-481     | PB99-167561    | NE               | NE | NE | NE   |
| Oxazepam   | 604-75-1           | PHAR/SYN  | FEED  | M6 M3    | TR-443     | PB94-184181    |                  |    | CE | CE   |
| Oxazepam   | 604-75-1           | PHAR/SYN  | FEED  | R2       | TR-468     | PB99-120875    | EE               | NE |    |      |
| 4,4'-Oxydianiline  | 101-80-4           | ADHS/SYN  | FEED  | R2 M3    | TR-205     | PB80-217938    | P                | P  | P  | P    |
| Oxymetholone   | 434-07-1           | PHAR/SYN  | GAV   | R2 M3    | TR-485     | PB2000-101419  | EE               | CE |    |      |
| Oxytetracycline hydrochloride                              | 2058-46-0          | FEED/SYN  | FEED  | R2 M3    | TR-315     | PB87-204103    | EE               | EE | NE | NE   |
| Ozone  | 10028-15-6         | WATR/NATL | INHAL | R2 M3    | TR-440     | PB95-226999    | NE               | NE | EE | EE   |
| Ozone  | 10028-15-6         | WATR/NATL | INHAL | R2 M3    | TR-440     | PB95-226999    | NE               | NE | EE | EE   |
| Ozone/NNK  | OZONNNKCOMB        | NATL/NATL | INHAL | R2       | TR-440     | PB95-226999    |                  |    |    |      |
| Parathion  | 56-38-2            | PEST/SYN  | FEED  | R1 M3    | TR-070     | PB288803       | E                | E  | N  | N    |
| Penicillin VK  | 132-98-9           | PHAR/N/S  | GAV   | R2 M3    | TR-336     | PB89-128615    | NE               | NE | NE | NE   |
| Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)] | 32534-81-9         | FLAM/SYN  | GAV   | R2 RE M3 | TR-589     | PB2016103214   | CE               | CE | CE | CE   |
| Pentachloroanisole   | 1825-21-4          | PEST      | GAV   | R2 M3    | TR-414     | PB94-104536    | SE               | EE | SE | SE   |
| Pentachloroethane  | 76-01-7            | SOLV/SYN  | GAV   | R2 M3    | TR-232     | PB83-206748    | E                | N  | P  | P    |
| Pentachloronitrobenzene                                    | 82-68-8            | PEST/SYN  | FEED  | R1 M3    | TR-061     | PB281732       | N                | N  | N  | N    |
| Pentachloronitrobenzene                                    | 82-68-8            | PEST/SYN  | FEED  | M3       | TR-325     | PB87-208633    |                  |    | NE | NE   |
| Pentachlorophenol, Dowicide EC-7                           | 87-86-5            | WOOD/SYN  | FEED  | M3       | TR-349     | PB89-216536    |                  |    | CE | CE   |
| Pentachlorophenol, purified                                | 87-86-5            | PEST/SYN  | FEED  | R2       | TR-483     | PB99-152878    | SE               | NE |    |      |
| Pentachlorophenol, technical                               | 87-86-5            | WOOD/SYN  | FEED  | M3       | TR-349     | PB89-216536    |                  |    | CE | CE   |
| Pentaerythritol tetranitrate                               | 78-11-5            | PHAR/SYN  | FEED  | R2 M3    | TR-365     | PB90-219452    | EE               | EE | NE | NE   |
| Phenazopyridine hydrochloride                              | 136-40-3           | PHAR/SYN  | FEED  | R2 M3    | TR-099     | PB286207       | P                | P  | N  | N    |
| Phenesterin  | 3546-10-9          | CMOT/SYN  | GAV   | R8 M3    | TR-060     | PB283361       | N                | P  | P  | P    |
| Phenformin hydrochloride                                   | 834-28-6           | PHAR/SYN  | FEED  | R2 M3    | TR-007     | PB266176       | N                | N  | N  | N    |
| Phenol   | 108-95-2           | GERM/N/S  | WATER | R2 M3    | TR-203     | PB80-217946    | N                | N  | N  | N    |
| Phenolphthalein  | 77-09-8            | PHAR/SYN  | FEED  | R2 M3    | TR-465     | PB97-169882    | CE               | SE | CE | CE   |
| Phenoxybenzamine hydrochloride                             | 63-92-3            | PHAR/SYN  | IP/IJ | R8 M3    | TR-072     | PB285095       | P                | P  | P  | P    |
| Phenylbutazone   | 50-33-9            | PHAR/SYN  | GAV   | R2 M3    | TR-367     | PB90-258765    | EE               | SE | SE | SE   |
| p-Phenylenediamine dihydrochloride                         | 624-18-0           | DYE       | FEED  | R2 M3    | TR-174     | PB290124       | N                | N  | N  | N    |
| Phenylephrine hydrochloride                                | 61-76-7            | PHAR/SYN  | FEED  | R2 M3    | TR-322     | PB87-208609    | NE               | NE | NE | NE   |
| 1-Phenyl-3-methyl-5-pyrazolone                             | 89-25-8            | DYE       | FEED  | R2 M3    | TR-141     | PB287122       | N                | N  | N  | N    |
| N-Phenyl-2-naphthylamine                                   | 135-88-6           | RUBR/SYN  | FEED  | R2 M3    | TR-333     | PB88-216270    | NE               | NE | NE | NE   |
| o-Phenylphenol   | 90-43-7            | FUNG/N/S  | SP    | M4       | TR-301     | PB86-217239    |                  |    | NE | NE   |
| N-Phenyl-p-phenylenediamine                                | 101-54-2           | COSM      | FEED  | R2 M3    | TR-082     | PB285856       | N                | N  | N  | N    |
| 1-Phenyl-2-thiourea  | 103-85-5           | REAG/SYN  | FEED  | R2 M3    | TR-148     | PB287357       | N                | N  | N  | N    |
| Phosphamidon   | 13171-21-6         | PEST/SYN  | FEED  | R1 M3    | TR-016     | PB288800       | E                | E  | N  | N    |
| Photodieldrin  | 13366-73-9         | PEST      | FEED  | R1 M3    | TR-017     | PB274393       | N                | N  | N  | N    |
| Phthalamide  | 88-96-0            | PNT/SYN   | FEED  | R2 M3    | TR-161     | PB293831       | N                | N  | N  | N    |
| Phthalic anhydride   | 85-44-9            | INTR/SYN  | FEED  | R2 M3    | TR-159     | PB293594       | N                | N  | N  | N    |
| Picloram   | 1918-02-1          | HERB/SYN  | FEED  | R1 M3    | TR-023     | PB276471       | N                | E  | N  | N    |
| beta-Picoline  | 108-99-6           | PEST      | WATER | R2 M22   | TR-580     | PB2015-102752  | NE               | SE | EE | EE   |
| Piperonyl butoxide   | 51-03-6            | SYN/N/S   | FEED  | R2 M3    | TR-120     | PB288753       | N                | N  | N  | N    |
| Piperonyl sulfoxide  | 120-62-7           | N/S/N/S   | FEED  | R2 M3    | TR-124     | PB288778       | N                | N  | P  | P    |
| Pivalolactone  | 1955-45-9          | INTR/SYN  | GAV   | R2 M3    | TR-140     | PB287645       | P                | P  | N  | N    |
| Polybrominated biphenyl mixture (Firemaster FF-1)          | 67774-32-7         | FLAM      | GAV   | R2 M3    | TR-244     | PB83-240473    | P                | P  | P  | P    |
| Polybrominated biphenyl mixture (Firemaster FF-1)          | 67774-32-7         | FLAM      | FEED  | R2 M3    | TR-398     | PB94-184066    | CE               | CE | CE | CE   |
| Polysorbate 80 (glycol)                                    | 9005-65-6          | COSM/SYN  | FEED  | R2 M3    | TR-415     | PB92-189331/AS | EE               | NE | NE | NE   |
| Polyvinyl alcohol  | 9002-89-5          | PHAR/SYN  | IVAG  | M3       | TR-474     | PB98-148869    |                  |    |    |      |
| Primidone (primaclone)                                     | 125-33-7           | PHAR/SYN  | FEED  | R2 M3    | TR-476     | PB2001-102004  | EE               | NE | CE | CE   |
| Probenecid   | 57-66-9            | PHAR/SYN  | GAV   | R2 M3    | TR-395     | PB92-129584/AS | NE               | NE | NE | NE   |
| Procarbazine hydrochloride                                 | 366-70-1           | CMOT/SYN  | IP/IJ | R8 M3    | TR-019     | PB299902       | P                | P  | P  | P    |
| Proflavin hydrochloride                                    | 952-23-8           | PHAR/SYN  | FEED  | R2 M3    | TR-005     | PB268553       | E                | N  | E  | E    |
| Promethazine hydrochloride                                 | 58-33-3            | PHAR/SYN  | GAV   | R2 M3    | TR-425     | PB94-210192    | NE               | NE | NE | NE   |
| Propargyl alcohol  | 107-19-7           | HERB/SYN  | INHAL | R2 M22   | TR-552     | PB2009-102214  | SE               | NE | SE | SE   |
| Propylene  | 115-07-1           | INTR/NATL | INHAL | R2 M3    | TR-272     | PB86-145521    | NE               | NE | NE | NE   |
| Propylene glycol mono-t-butyl ether                        | 57018-52-7         | SOLV/SYN  | INHAL | R2 RB M3 | TR-515     | PB2004-104949  | EE               | NE | CE | CE   |
| 1,2-Propylene oxide  | 75-56-9            | FUME/SYN  | INHAL | R2 M3    | TR-267     | PB85-179653    | SE               | SE | CE | CE   |
| Propyl gallate   | 121-79-9           | COSM/SYN  | FEED  | R2 M3    | TR-240     | PB83-180042    | E                | N  | E  | E    |
| Pulegone   | 89-82-7            | DIET/N/S  | GAV   | R2 M22   | TR-563     | PB2011-114186  | NE               | SE | CE | CE   |
| Pyrazinamide   | 98-96-4            | PHAR/SYN  | FEED  | R2 M3    | TR-048     | PB280251       | N                | N  | N  | N    |
| Pyridine   | 110-86-1           | SOLV/SYN  | WATER | R2 R9 M3 | TR-470     | PB2000-106687  | SE               | EE | CE | CE   |
| Pyridine   | 110-86-1           | SOLV/SYN  | WATER | R9       | TR-470     | PB2000-106687  | EE               |    |    |      |
| Pyrilamine   | 91-84-9            | PHAR/SYN  | FEED  | R2 M3    | NR-408/409 |                |                  |    |    |      |
| Pyrimethamine  | 58-14-0            | PHAR/SYN  | FEED  | R2 M3    | TR-077     | PB282608       | N                | N  | IS | IS   |
| Pyrogallol   | 87-66-1            | N/S       | SP    | R2 M22   | TR-574     | PB2013-105507  | NE               | NE | EE | EE   |
| Quercetin  | 117-39-5           | PHAR/NATL | FEED  | R2       | TR-409     | PB93-147478    | SE               | NE |    |      |

\*+ MR = Male Rat, FR = Female Rat, MM = Male Mice, FM = Female Mice.  
See Page 4 for explanation of Carcnoegen Codes

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## Printed Long-Term and Short-Term Study Reports

## Long-Term Studies

| CHEMICAL NAME   | PRIMARY CAS NUMBER | USE       | ROUTE | SPECIES      | RPT No. | NTIS ** NUMBER | CARCINOGEN CODES |    |    |      |
|---|--------------------|-----------|-------|--------------|---------|----------------|------------------|----|----|------|
|   |                    |           |       |              |         |                | MR               | FR | MM | FM** |
| Reserpine   | 50-55-5            | PHAR/NATL | FEED  | R2 M3        | TR-193  | PB83-165761    | P                | N  | P  | P    |
| Resorcinol  | 108-46-3           | PHAR/SYN  | GAV   | R2 M3        | TR-403  | PB93-126381    | NE               | NE | NE | NE   |
| All-trans-retinyl palmitate   | 79-81-2            | COSM/SYN  | SP    | MT           | TR-568  | PB2013-100226  |                  |    |    |      |
| Rhodamine 6G  | 989-38-8           | DYE/N/S   | FEED  | R2 M3        | TR-364  | PB90-219460    | EE               | EE | NE | NE   |
| Riddelliine   | 23246-96-0         | PHAR/NATL | GAV   | R2 M3        | TR-508  | PB2003-106432  | CE               | CE | CE | CE   |
| Rotenone  | 83-79-4            | PEST/NATL | FEED  | R2 M3        | TR-320  | PB89-139760    | EE               | NE | NE | NE   |
| Roxarsone   | 121-19-7           | REAG/SYN  | FEED  | R2 M3        | TR-345  | PB89-216543    | EE               | NE | NE | NE   |
| Safflower oil   | 8001-23-8          | DIET/NATL | GAV   | R2           | TR-426  | PB95-103958    |                  |    |    |      |
| Salicylazosulfapyridine   | 599-79-1           | PHAR/SYN  | GAV   | R2 M3        | TR-457  | PB97-212708    | SE               | SE | CE | CE   |
| Scopolamine hydrobromide trihydrate                                   | 6533-68-2          | PHAR/SYN  | GAV   | R2 M3        | TR-445  | PB97-208946    | NE               | NE | NE | NE   |
| Selenium sulfide  | 7446-34-6          | COSM/NATL | GAV   | R2 M3        | TR-194  | PB82-164955    | P                | P  | N  | N    |
| Selenium sulfide  | 7446-34-6          | COSM/NATL | SP    | M4           | TR-197  | PB82-165291    |                  |    | N  | N    |
| Selsun  | EMTDP-74           | COSM/N/S  | SP    | M4           | TR-199  | PB82-164542    |                  |    | N  | N    |
| Sodium azide  | 26628-22-8         | FUME/SYN  | GAV   | R2           | TR-389  | PB92-135615    | NE               | NE |    |      |
| Sodium dichromate dihydrate (VI)                                      | 7789-12-0          | ENVH/SYN  | WATER | R2 M22       | TR-546  | PB2008-114134  | CE               | CE | CE | CE   |
| Sodium diethyldithiocarbamate   | 148-18-5           | INTR/SYN  | FEED  | R2 M3        | TR-172  | PB293833       | N                | N  | N  | N    |
| Sodium Fluoride   | 7681-49-4          | ADHS/N/S  | WATER | R2 M3        | TR-393  | PB91-178137    | EE               | NE | NE | NE   |
| Sodium nitrite  | 7632-00-0          | INTR/SYN  | WATER | R2 M3        | TR-495  | PB2001-107676  | NE               | NE | NE | NE   |
| Sodium xylenesulfonate  | 1300-72-7          | DTRG/SYN  | SP    | R2 M3        | TR-464  | PB98-168719    | NE               | NE | NE | NE   |
| Stannous chloride   | 7772-99-8          | DYE/SYN   | FEED  | R2 M3        | TR-231  | PB82-242553    | E                | N  | N  | N    |
| Stoddard solvent (type LIC)   | 64742-88-7         | ADHS/SYN  | INHAL | R2 M3        | TR-519  | PB2005-103487  | SE               | NE | NE | NE   |
| Styrene   | 100-42-5           | RUBR/SYN  | GAV   | R2 M3        | TR-185  | PB300977       | N                | N  | E  | E    |
| Styrene-acrylonitrile trimer  | SANTRIMER2         | PLAS      | FEED  | R2           | TR-573  | PB2012112739   | NE               | NE |    |      |
| Succinic anhydride  | 108-30-5           | FOOD/SYN  | GAV   | R2 M3        | TR-373  | PB90-231135    | NE               | NE | NE | NE   |
| Sulfallate  | 95-06-7            | HERB/SYN  | FEED  | R1 M3        | TR-115  | PB286386       | P                | P  | P  | P    |
| Sulfamethazine  | 57-68-1            | PHAR/SYN  | FEED  | R2           | NR-420  |                |                  |    |    |      |
| Sulfamethazine  | 57-68-1            | PHAR/SYN  | FEED  | M3           | NR-418  |                |                  |    |    |      |
| Sulfisoxazole   | 127-69-5           | PHAR/SYN  | GAV   | R2 M3        | TR-138  | PB288779       | N                | N  | N  | N    |
| 3-Sulfolene   | 77-79-2            | SOLV/SYN  | GAV   | R1 M3        | TR-102  | PB284656       | N                | N  | N  | N    |
| 4,4'-Sulfonyldianiline (Dapsone)                                      | 80-08-0            | PHAR/SYN  | FEED  | R2 M3        | TR-020  | PB274394       | P                | N  | N  | N    |
| Talc  | 14807-96-6         | COSM/NATL | INHAL | R2 M3        | TR-421  | PB94-215985    | SE               | CE | NE | NE   |
| Tara gum  | 39300-88-4         | FOOD/NATL | FEED  | R2 M3        | TR-224  | PB82-195546    | N                | N  | N  | N    |
| Toxic equivalency factor evaluation (Binary mixture; PCB 126/PCB 153) | TEFBINARYMIX       | ELEC/SYN  | GAV   | HSD          | TR-530  | PB2008109743   |                  | CE |    |      |
| Toxic equivalency factor evaluation (PECDF (Pentachlorodibenzofuran)) | 57117-31-4         | ELEC/N/S  | GAV   | HSD          | TR-525  | PB2007-103746  |                  | SE |    |      |
| Toxic equivalency factor evaluation (PCB 118)                         | 31508-00-6         | COMT/SYN  | GAV   | HSD          | TR-559  | PB2011-103866  |                  | CE |    |      |
| Toxic equivalency factor evaluation (PCB Mixture; PCB 126/PCB 118)    | TEFFCBMIX          | ELEC/SYN  | GAV   | HSD          | TR-531  | PB2007-103748  |                  | CE |    |      |
| Toxic equivalency factor evaluation (TCDD)                            | 1746-01-6          | LABC/SYN  | GAV   | HSD          | TR-521  | PB 2006-112291 |                  | CE |    |      |
| Tetrabromobisphenol A   | 79-94-7            | FLAM      | GAV   | RE RD M22    | TR-587  | PB2015-102753  | EE               | CE | SE | SE   |
| 3,3',4,4'-Tetrachloroazobenzene                                       | 14047-09-7         | PEST/SYN  | GAV   | HSD M22      | TR-558  | PB2011-104500  | CE               | CE | CE | CE   |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin                                   | 1746-01-6          | PEST/SYN  | GAV   | R1 M3        | TR-209  | PB82-163445    | P                | P  | P  | P    |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin                                   | 1746-01-6          | PEST/SYN  | SP    | M6           | TR-201  | PB82-163684    |                  |    | E  | E    |
| Tetrachlorodiphenylethane   | 72-54-8            | PEST/SYN  | FEED  | R1 M3        | TR-131  | PB286367       | E                | N  | N  | N    |
| 1,1,1,2-Tetrachloroethane   | 630-20-6           | INTR      | GAV   | R2 M3        | TR-237  | PB83-218206    | E                | N  | P  | P    |
| 1,1,2,2-Tetrachloroethane   | 79-34-5            | SOLV/SYN  | GAV   | R1 M3        | TR-027  | PB277453       | E                | N  | P  | P    |
| Tetrachloroethylene   | 127-18-4           | FUME/SYN  | GAV   | R1 M3        | TR-013  | PB272940       | IS               | IS | P  | P    |
| Tetrachloroethylene   | 127-18-4           | FUME/SYN  | INHAL | R2 M3        | TR-311  | PB87-147054    | CE               | SE | CE | CE   |
| 2,3,5,6-Tetrachloro-4-nitroanisole                                    | 2438-88-2          | PEST      | FEED  | R2 M3        | TR-114  | PB287642       | N                | N  | N  | N    |
| Tetrachlorvinphos   | 961-11-5           | PEST      | FEED  | R1 M3        | TR-033  | PB278650       | N                | P  | P  | P    |
| Tetracycline hydrochloride  | 64-75-5            | PHAR/NATL | FEED  | R2 M3        | TR-344  | PB90-198540    | NE               | NE | NE | NE   |
| Tetraethylthiuram disulfide   | 97-77-8            | PEST/SYN  | FEED  | R2 M3        | TR-166  | PB298514       | N                | N  | N  | N    |
| Tetrafluoroethylene   | 116-14-3           | FOOD/SYN  | INHAL | R2 M3        | TR-450  | PB97-208508    | CE               | CE | CE | CE   |
| 1-trans-delta-9-Tetrahydrocannabinol                                  | 1972-08-3          | PHAR/NATL | GAV   | R2 M3        | TR-446  | PB97-182208    | NE               | NE | EE | EE   |
| Tetrahydrofuran   | 109-99-9           | FDPK/SYN  | INHAL | R2 M3        | TR-475  | PB98-164544    | SE               | NE | NE | NE   |
| Tetrakis(hydroxymethyl)phosphonium chloride                           | 124-64-1           | FLAM/SYN  | GAV   | R2 M3        | TR-296  | PB87-204137    | NE               | NE | NE | NE   |
| Tetrakis(hydroxymethyl)phosphonium sulfate                            | 55566-30-8         | FLAM/SYN  | GAV   | R2 M3        | TR-296  | PB87-204137    | NE               | NE | NE | NE   |
| Tetralin  | 119-64-2           | SOLV/SYN  | INHAL | R2 RB M3 M22 | TR-561  | PB2011-110773  | SE               | SE | NE | NE   |
| Tetranitromethane   | 509-14-8           | FUEL/SYN  | INHAL | R2 M3        | TR-386  | PB91-113373    | CE               | CE | CE | CE   |
| Theophylline  | 58-55-9            | PHAR/NATL | GAV   | R2 M3        | TR-473  | PB99-113342    | NE               | NE | NE | NE   |
| 4,4-Thiobis(6-tert-butyl-m-cresol)                                    | 96-69-5            | FDPK/SYN  | FEED  | R2 M3        | TR-435  | PB95-225751    | NE               | NE | NE | NE   |
| 4,4'-Thiodianiline  | 139-65-1           | DYE/SYN   | FEED  | R2 M3        | TR-047  | PB280360       | P                | P  | P  | P    |
| beta-Thioguanidine deoxyriboside                                      | 789-61-7           | CMOT/NATL | IP/IJ | R8 M3        | TR-057  | PB281540       | E                | P  | IS | IS   |
| alpha/beta Thujone mixture  | 76231-76-0         | COSM/NATL | GAV   | R2 M22       | TR-570  | PB2012-102007  | SE               | NE | NE | NE   |
| Titanium dioxide  | 13463-67-7         | PHAR/N/S  | FEED  | R2 M3        | TR-097  | PB288780       | N                | N  | N  | N    |
| Titanocene dichloride   | 1271-19-8          | INTR/SYN  | GAV   | R2 M3        | TR-399  | PB92-129576/AS | EE               | EE |    |      |
| Tolazamide  | 1156-19-0          | PHAR/SYN  | FEED  | R2 M3        | TR-051  | PB284610       | N                | N  | N  | N    |

\*+ MR = Male Rat, FR = Female Rat, MM = Male Mice, FM = Female Mice.  
See Page 4 for explanation of Carcino Code

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## Printed Long-Term and Short-Term Study Reports

## Long-Term Studies

| CHEMICAL NAME  | PRIMARY CAS NUMBER | USE       | ROUTE  | SPECIES  | RPT No.    | NTIS ** NUMBER | CARCINOGEN CODES |    |    |      |
|--|--------------------|-----------|--------|----------|------------|----------------|------------------|----|----|------|
|  |                    |           |        |          |            |                | MR               | FR | MM | FM** |
| Tolbutamide  | 64-77-7            | PHAR/SYN  | FEED   | R2 M3    | TR-031     | PB274483       | N                | N  | N  | N    |
| Toluene  | 108-88-3           | FUEL/N/S  | INHAL  | R2 M3    | TR-371     | PB90-256371    | NE               | NE | NE | NE   |
| 2,6-Toluenediamine dihydrochloride (2,6-diaminotoluene dihydrochloride)          | 15481-70-6         | INTR/SYN  | FEED   | R2 M3    | TR-200     | PB80-217912    | N                | N  | N  | N    |
| 2,5-Toluenediamine sulfate   | 6369-59-1          | COSM      | FEED   | R2 M3    | TR-126     | PB287127       | N                | N  | N  | N    |
| 2,4- & 2,6-Toluene diisocyanate  | 26471-62-5         | PLAS      | GAV    | R2 M3    | TR-251     | PB87-115176    | P                | P  | N  | N    |
| o-Toluidine hydrochloride  | 636-21-5           | DYE       | FEED   | R2 M3    | TR-153     | PB290908       | P                | P  | P  | P    |
| Toxaphene  | 8001-35-2          | PEST/SYN  | FEED   | R1 M3    | TR-037     | PB292290       | E                | E  | P  | P    |
| Toxic equivalency factor evaluation (Dioxin mixture)                             | TEFDIOXINMIX       | ELEC/SYN  | GAV    | HSD      | TR-526     | PB2007-103747  |                  | CE |    |      |
| Toxic equivalency factor evaluation (PCB 153- 2,2'-4,4',5,5'-hexachlorobiphenyl) | 35065-27-1         | ELEC/SYN  | GAV    | HSD      | TR-529     | PB 2006-113416 |                  | EE |    |      |
| Toxic equivalency factor evaluation ((PCB 126) 3,3',4,4',5-pentachlorobiphenyl)  | 57465-28-8         | ELEC/SYN  | GAV    | HSD      | TR-520     | PB 2006-109013 |                  | CE |    |      |
| Tremolite  | 14567-73-8         | GLAS/NATL | FEED   | R2       | TR-277     | PB90-226572    | N                | N  |    |      |
| Triamterene  | 396-01-0           | PHAR/SYN  | FEED   | R2 M3    | TR-420     | PB94-213782    | EE               | NE | SE | SE   |
| Tribromomethane  | 75-25-2            | INTR/SYN  | GAV    | R2 M3    | TR-350     | PB90-110149    | SE               | CE | NE | NE   |
| Tricaprylin  | 538-23-8           | FOOD/NATL | GAV    | R2       | TR-426     | PB95-103958    |                  |    |    |      |
| 1,1,1-Trichloroethane  | 71-55-6            | SOLV/SYN  | GAV    | R1 M3    | TR-003     | PB265082       | IS               | IS | IS | IS   |
| 1,1,2-Trichloroethane  | 79-00-5            | SOLV/SYN  | GAV    | R1 M3    | TR-074     | PB283337       | N                | N  | P  | P    |
| Trichloroethylene  | 79-01-6            | ADHS/SYN  | GAV    | R1 M3    | TR-002     | PB264122       | N                | N  | P  | P    |
| Trichloroethylene  | 79-01-6            | ADHS/SYN  | GAV    | R4 R3    | TR-273     | PB88-218896    | IS               | IS |    |      |
| Trichloroethylene  | 79-01-6            | ADHS/SYN  | GAV    | R1 R6    | TR-273     | PB88-218896    | IS               | IS |    |      |
| Trichloroethylene  | 79-01-6            | ADHS/SYN  | GAV    | R2 M3    | TR-243     | PB91-111815    | IS               | N  | P  | P    |
| Trichlorofluoromethane   | 75-69-4            | SOLV/SYN  | GAV    | R1 M3    | TR-106     | PB286187       | IS               | IS | N  | N    |
| 2,4,6-Trichlorophenol  | 88-06-2            | HERB/SYN  | FEED   | R2 M3    | TR-155     | PB293770       | P                | N  | P  | P    |
| 1,2,3-Trichloropropane   | 96-18-4            | PNT/SYN   | GAV    | R2 M3    | TR-384     | PB94-207784    | CE               | CE | CE | CE   |
| Triclosan  | 3380-34-5          | COSM/SYN  | DERMAL | M3       |            |                |                  |    |    |      |
| Tricresyl Phosphate  | 1330-78-5          | FLAM/SYN  | FEED   | R2 M3    | TR-433     | PB95-227377    | NE               | NE | NE | NE   |
| Triethanolamine  | 102-71-6           | COSM/SYN  | SP     | R2 M3 M7 | TR-449     | PB2000-102846  | EE               | NE | IS | IS   |
| Triethanolamine  | 102-71-6           | COSM/SYN  | SP     | M22      | TR-518     | PB2004-106613  |                  |    | EE | EE   |
| Trifluralin  | 1582-09-8          | HERB/SYN  | FEED   | R1 M3    | TR-034     | PB278610       | N                | N  | N  | N    |
| 2,4,5-Trimethylaniline   | 137-17-7           | DYE       | FEED   | R2 M3    | TR-160     | PB293802       | P                | P  | E  | E    |
| Trimethylolpropane triacrylate   | 15625-89-5         | ADHS      | SP     | R2 M3    | TR-576     | PB2013-103565  | EE               | NE | NE | NE   |
| Trimethylphosphate   | 512-56-1           | FUEL      | GAV    | R2 M3    | TR-081     | PB285851       | P                | N  | N  | N    |
| Trimethylthiourea  | 2489-77-2          | ADHS      | FEED   | R2 M3    | TR-129     | PB288802       | N                | P  | N  | N    |
| Triphenyltin hydroxide   | 76-87-9            | PEST/SYN  | FEED   | R2 M3    | TR-139     | PB287399       | N                | N  | N  | N    |
| Tripolidine  | 486-12-4           | PHAR/SYN  | FEED   | R2 M3    | NR-414/415 |                |                  |    |    |      |
| tris(Aziridinyl)-phosphine sulfide (Thio-TEPA)                                   | 52-24-4            | CMOT/SYN  | IP/IJ  | R8 M3    | TR-058     | PB285702       | P                | P  | P  | P    |
| Tris(2-Chloroethyl) Phosphate  | 115-96-8           | FLAM/SYN  | GAV    | R2 M3    | TR-391     | PB92-105147    | CE               | CE | EE | EE   |
| tris(2,3-Dibromopropyl) phosphate  | 126-72-7           | FLAM/SYN  | FEED   | R2 M3    | TR-076     | PB280271       | P                | P  | P  | P    |
| tris(2-Ethylhexyl)phosphate  | 78-42-2            | FLAM      | GAV    | R2 M3    | TR-274     | PB85-171502    | EE               | NE | NE | NE   |
| Trisodium ethylenediaminetetraacetate trihydrate (EDTA)                          | 150-38-9           | FOOD/SYN  | FEED   | R2 M3    | TR-011     | PB270938       | N                | N  | N  | N    |
| L-Tryptophan   | 73-22-3            | DIET/NATL | FEED   | R2 M3    | TR-071     | PB285792       | N                | N  | N  | N    |
| Turmeric, oleoresin (curcumin)   | 8024-37-1          | FOOD/NATL | FEED   | R2 M3    | TR-427     | PB94-184173    | NE               | EE | EE | EE   |
| Urethane   | 51-79-6            | PNT/SYN   | WATER  | MV       | TR-510     | PB2005-103486  |                  |    | CE | CE   |
| Urethane + ethanol (combination)   | URETHCOMB          | PNT/N/S   | WATER  | MV       | TR-510     | PB2005-103486  |                  |    | CE | CE   |
| Vanadium pentoxide   | 1314-62-1          | INTR/NATL | INHAL  | R2 M3    | TR-507     | PB2003102385   | SE               | EE | CE | CE   |
| 4-Vinylcyclohexene   | 100-40-3           | INTR      | GAV    | R2 M3    | TR-303     | PB87-116182    | IS               | IS | IS | IS   |
| 4-Vinyl-1-cyclohexene diepoxide  | 106-87-6           | INTR      | SP     | R2 M3    | TR-362     | PB90-219957    | CE               | CE | CE | CE   |
| Vinylidene Chloride  | 75-35-4            | INTR/SYN  | INHAL  | R2 M22   | TR-582     | PB2016102571   | CE               | SE | CE | CE   |
| Vinylidene Chloride  | 75-35-4            | INTR/SYN  | GAV    | R2 M3    | TR-228     | PB82-258393    | N                | N  | N  | N    |
| Vinyl toluene  | 25013-15-4         | SOLV/SYN  | INHAL  | R2 M3    | TR-375     | PB90-260035    | NE               | NE | NE | NE   |
| Water disinfection byproducts (Bromochloroacetic acid)                           | 5589-96-8          | WATR/SYN  | WATER  | R2 M22   | TR-549     | PB2010-100853  | CE               | CE | CE | CE   |
| Water disinfection byproducts (Bromodichloroacetic Acid)                         | 71133-14-7         | ENVH/NATL | WATER  | RD M22   | TR-583     | PB2016102572   | CE               | CE | CE | CE   |
| Water disinfection byproducts (Bromodichloromethane)                             | 75-27-4            | FLAM/SYN  | WATER  | R2 M22   | TR-532     | PB 2006-111415 | NE               |    |    |      |
| Water disinfection byproducts (Dibromoacetic acid)                               | 631-64-1           | WATR/SYN  | WATER  | R2 M3    | TR-537     | PB2008-109733  | SE               | SE | CE | CE   |
| Water disinfection byproducts (Dibromoacetonitrile)                              | 3252-43-5          | INTR      | WATER  | R2 M22   | TR-544     | PB2010-114243  | CE               | SE | CE | CE   |
| Water disinfection byproducts (Sodium chlorate)                                  | 7775-09-9          | WATR/SYN  | WATER  | R2 M3    | TR-517     | PB 2006-107479 | SE               | SE | NE | NE   |
| Xylenes (mixed)  | 1330-20-7          | FUEL/SYN  | GAV    | R2 M3    | TR-327     | PB87-189684    | NE               | NE | NE | NE   |
| 2,6-Xylidine   | 87-62-7            | DYE/SYN   | FEED   | RA       | TR-278     | PB90-256363    | P                | P  |    |      |
| Zearalenone  | 17924-92-4         | PHAR/NATL | FEED   | R2 M3    | TR-235     | PB83-165753    | N                | N  | P  | P    |
| Zinc Carbonate, Basic  | 5263-02-5          | NATL/NATL | FEED   | HSD      |            |                |                  |    |    |      |

\*+ MR = Male Rat, FR = Female Rat, MM = Male Mice, FM = Female Mice.  
See Page 4 for explanation of Carcino Code



Ref No. 16

## Printed Long-Term and Short-Term Study Reports

## Long-Term Studies

| CHEMICAL NAME | PRIMARY CAS USE NUMBER | ROUTE | SPECIES | RPT No. | NTIS ** NUMBER | CARCINOGEN CODES |    |    |      |
|---------------|------------------------|-------|---------|---------|----------------|------------------|----|----|------|
|               |                        |       |         |         |                | MR               | FR | MM | FM** |
| Ziram         | 137-30-4 RUBR/SYN      | FEED  | R2 M3   | TR-238  | PB83-202622    | P                | N  | N  | N    |

\*+ MR = Male Rat, FR = Female Rat, MM = Male Mice, FM = Female Mice.  
See Page 4 for explanation of Carcogen Codes

Ref No. 17

## Long-Term Exposure Studies for Which Technical Reports Were Not Prepared

| CHEMICAL NAME  | PRIMARY CAS USE NUMBER | ROUTE | SPECIES | COMMENTS                            | FOOTNOTE REFERENCE |
|--|------------------------|-------|---------|-------------------------------------|--------------------|
| Actinomycin D  | 50-76-0 CMOT/NATL      | IP/IJ | R8 M4   |                                     | A                  |
| Agaritine  | 2757-90-6 CMOT/NATL    | WATER | M4      |                                     | E                  |
| 3-Amino-9-ethylcarbazole   | 132-32-1 DYE           | FEED  | R2 M3   |                                     |                    |
| Amsacrine  | 51264-14-3 CMOT/SYN    | IP/IJ | R2 M3   |                                     |                    |
| L-Arginine Glutamate   | 4320-30-3 NATL         | FEED  | R2 M1   |                                     |                    |
| Azathioprine   | 446-86-6 PHAR/SYN      | IP/IJ | R8 M4   |                                     | A                  |
| Benzyl chloride  | 100-44-7 INTR/SYN      | GAV   | R2 M3   | RESULTS REPORTED IN JOURNAL ARTICLE | H                  |
| 1,3-bis(Chloroethyl)-1-nitrosourea   | 154-93-8 CMOT          | IP/IJ | R8 M4   | RESULTS REPORTED IN JOURNAL ARTICLE | A                  |
| bis(Chloromethyl) ether  | 542-88-1 INTR          | INHAL | R8 H1   |                                     |                    |
| 1,3-Butadiene  | 106-99-0 INTR/N/S      | INHAL | M3      |                                     | Q                  |
| Calcium chromate   | 13765-19-0 INTR/SYN    | INHAL | R8 H1   |                                     |                    |
| Carbon tetrachloride   | 56-23-5 INTR/SYN       | GAV   | R1 M3   |                                     |                    |
| Chlorambucil   | 305-03-3 CMOT/SYN      | IP/IJ | R8 M4   | RESULTS REPORTED IN JOURNAL ARTICLE | A                  |
| Chloromethyl methyl ether  | 107-30-2 INTR/SYN      | INHAL | R8 H1   |                                     |                    |
| Chromium   | 7440-47-3 INTR/NATL    | INHAL | R8 H1   |                                     |                    |
| Cyclohexanone  | 108-94-1 SOLV/SYN      | WATER | R2 M3   | RESULTS REPORTED IN JOURNAL ARTICLE | J                  |
| Cyclophosphamide   | 50-18-0 CMOT/SYN       | IP/IJ | R8 M4   |                                     | A                  |
| Cytarabine   | 147-94-4 PHAR/SYN      | IP/IJ | R8 M4   |                                     | A                  |
| Cytosol alcohol  | 4465-94-5 CMOT         | IP/IJ | R8 M4   | RESULTS REPORTED IN JOURNAL ARTICLE | A                  |
| Dacarbazine  | 4342-03-4 CMOT/SYN     | IP/IJ | R8 M4   |                                     | A                  |
| Daunomycin   | 20830-81-3 CMOT/NATL   | IP/IJ | R8 M4   | RESULTS REPORTED IN JOURNAL ARTICLE | A                  |
| o,p'-DDD   | 53-19-0 PEST/SYN       | IP/IJ | R8 M4   | RESULTS REPORTED IN JOURNAL ARTICLE | A                  |
| Dibromodulcitol  | 10318-26-0 CMOT/SYN    | IP/IJ | R8 M4   |                                     | A                  |
| Dibromomannitol  | 488-41-5 CMOT/SYN      | IP/IJ | R8 M4   | RESULTS REPORTED IN JOURNAL ARTICLE | A                  |
| Dichloromethotrexate   | 528-74-5 CMOT          | IP/IJ | R8 M4   | RESULTS REPORTED IN JOURNAL ARTICLE | A                  |
| Dimethylcarbamoyl chloride   | 79-44-7 INTR           | INHAL | R8 H1   |                                     |                    |
| Dimethyl hydrazine (DMH)   | 57-14-7 FUEL/SYN       | INHAL | M1      |                                     |                    |
| 1,2-Dimethylhydrazine 2HCl   | 306-37-6 FUEL          | FEED  | R2      |                                     |                    |
| Epichlorhydrin   | 106-89-8 INTR/SYN      | INHAL | R8      |                                     |                    |
| Guanazole  | 1455-77-2 CMOT         | IP/IJ | R8 M4   | RESULTS REPORTED IN JOURNAL ARTICLE | A                  |
| Hexanamide   | 628-02-4 INTR          | FEED  | R2 M1   |                                     |                    |
| Phenolic Benzotriazoles (3-(2H-Benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxybenzenepropanoic acid, octyl ester) | 84268-23-5 ADHS        | GAV   | HSD     |                                     |                    |
| Hydroxyurea  | 127-07-1 CMOT/SYN      | IP/IJ | R8 M4   |                                     | A                  |
| Lomustine  | 13010-47-4 CMOT/SYN    | IP/IJ | R8 M4   |                                     | A                  |
| Melphalan  | 148-82-3 CMOT/SYN      | IP/IJ | R8 M4   |                                     | A                  |
| 6-Mercaptopurine   | 50-44-2 CMOT/SYN       | IP/IJ | R8 M4   |                                     | A                  |
| Merphalan  | 531-76-0 CMOT          | IP/IJ | R8 M4   | RESULTS REPORTED IN JOURNAL ARTICLE | A                  |
| Methapyrilene hydrochloride  | 135-23-9 PHAR/SYN      | FEED  | R2 M3   | RESULTS REPORTED IN JOURNAL ARTICLE | F                  |
| Methotrexate   | 59-05-2 CMOT/SYN       | IP/IJ | R8 M4   |                                     | A                  |
| Methyl CCNU  | 13909-09-6 CMOT        | IP/IJ | R8 M4   |                                     | A                  |
| Methyl isocyanate  | 624-83-9 INTR/SYN      | INHAL | NA      |                                     | R                  |
| 6-Methylmercaptopurine ribonucleoside  | 342-69-8 CMOT          | IP/IJ | R8 M4   |                                     | A                  |
| 2-Methyl-1-nitroanthraquinone  | 129-15-7 INTR/SYN      | FEED  | M3      | RESULTS REPORTED IN JOURNAL ARTICLE | D                  |
| Mitomycin C  | 50-07-7 CMOT/N/S       | IP/IJ | R8 M4   |                                     | A                  |
| Mouse ageing study   | MOUSEAGE               |       | M3      | RESULTS REPORTED IN JOURNAL ARTICLE | O                  |
| Nitrofurazone  | 59-87-0 PHAR/SYN       | FEED  | M3      |                                     |                    |
| NTP 90 diet study  | DIET90 FEED/SYN        | FEED  | M3 NA   |                                     | N                  |
| NTP 91/92 diet study   | DIET9192 FEED/SYN      | FEED  | R2      |                                     | N                  |

Ref No. 17

## Long-Term Exposure Studies for Which Technical Reports Were Not Prepared

| CHEMICAL NAME                  | PRIMARY CAS USE NUMBER | ROUTE | SPECIES | COMMENTS                            | FOOTNOTE REFERENCE |
|--------------------------------|------------------------|-------|---------|-------------------------------------|--------------------|
| Polyurethane                   | 9009-54-5 RUBR         | INHAL | R8 H1   |                                     |                    |
| Prednisone                     | 53-03-2 CMOT/N/S       | IP/IJ | R8 M4   |                                     | A                  |
| Procarbazine hydrochloride     | 366-70-1 CMOT/SYN      | IP/IJ | R8 M4   |                                     | A                  |
| Rotenone                       | 83-79-4 PEST/NATL      | IP/IJ | R2      | RESULTS REPORTED IN NCTR REPORT     | M                  |
| Sodium Fluoride                | 7681-49-4 ADHS/N/S     | WATER | R2      | Supplemental study                  | P                  |
| Streptozotocin                 | 18883-66-4 CMOT/NATL   | IP/IJ | R8 M4   |                                     | A                  |
| Styrene oxide                  | 96-09-3 INTR           | GAV   | R2 M3   | RESULTS REPORTED IN JOURNAL ARTICLE | K                  |
| p-Tolylurea                    | 622-51-5 LABC          | FEED  | R2 M1   |                                     |                    |
| Uracil mustard                 | 66-75-1 CMOT/SYN       | IP/IJ | R8 M4   | RESULTS REPORTED IN JOURNAL ARTICLE | A                  |
| Vinblastine                    | 865-21-4 CMOT/NATL     | IP/IJ | R8 M4   | RESULTS REPORTED IN JOURNAL ARTICLE | A                  |
| Vincristine                    | 57-22-7 CMOT/NATL      | IP/IJ | R8 M4   |                                     | A                  |
| Wollastonite calcium silicates | 13983-17-0 PNT/NATL    | INHAL | R2      | RESULTS REPORTED IN JOURNAL ARTICLE | I                  |

With the exception of those documents available only through the National Technical Information Service\* the following papers are available upon request from the Central Data Management (CDM) (TELEPHONE: 919-541-3419; FAX: (301) 480-3210; Mail Drop K2-05, NIEHS, P. O. BOX 12233, Research Triangle Park, NC USA 27709; EMAIL: CDM@NIEHS.NIH.GOV) .

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R Bucher JR, Uraih LC, Hildebrandt PK, Sauer RM and Seely JC. Carcinogenicity and Pulmonary Pathology Associated with a Single 2-Hour Inhalation Exposure of Laboratory Rodents to Methyl Isocyanate. J. Nat. Cancer Inst 81:1586-1587 (1989).

\* National Technical Information Service, Department of Commerce, 5285 Port Royal Road, Springfield, Virginia 22161, Phone: 1-800-553-6847 or (703)487-4650.

## Appendix

## Short-Term Studies for Which Toxicity Technical Reports Were Not Prepared

| CHEMICAL NAME                            | PRIMARY CAS USE NUMBER | ROUTE | SPECIES |
|--|------------------------|-------|---------|
| Abrasive blasting agents (coal slag)     | COALSLAG IND/NATL      | INHAL | RD      |
| Abrasive blasting agents (crushed glass) | CRUSHEDGLASS IND/NATL  | INHAL | RD      |
| Abrasive blasting agents (garnet)        | GARNET IND/NATL        | INHAL | RD      |
| Acetaminophen (4-hydroxyacetanilide)     | 103-90-2 DYE/SYN       | GAV   | R2      |
| Acetochlor                               | 34256-82-1 HERB/SYN    | GAV   | HSD     |
| Acetonitrile                             | 75-05-8 SOLV/SYN       | INHAL | R2 M3   |
| Acrylamide                               | 79-06-1 COMT/SYN       | FEED  | RC MV   |
| Adeno-associated viral vector (hEPO)     | AAVIRVECEPO N/S        | ID/CN | MW      |
| Adenoviral vector (hGH)                  | ADNVIRVECHGH N/S       | ID/CN | R2      |
| Adenoviral Vector (AdhAQP1)              | ADNVIRVECAQP           | ID/CN | R2      |
| Allyl bromide                            | 106-95-6 COSM/SYN      | SP    | MI      |
| Aloin                                    | 1415-73-2 NATL         | WATER | RC      |
| Ametryn                                  | 834-12-8 HERB          | GAV   | HSD     |

## Appendix

## Short-Term Studies for Which Toxicity Technical Reports Were Not Prepared

| CHEMICAL NAME   | PRIMARY CAS NUMBER | USE       | ROUTE | SPECIES  |
|---|--------------------|-----------|-------|----------|
| 9-Aminoacridine hydrochloride   | 134-50-9           | PHAR/SYN  | SP    | R2 M3    |
| 9-Aminoacridine hydrochloride   | 134-50-9           | PHAR/SYN  | FEED  | R2 M3    |
| 2-(4-Aminophenyl)-6-methyl-7-benzothiazole sulfonic acid              | 130-17-6           | INTR      | FEED  | R2 M3    |
| 3-Aminopyridine   | 462-08-8           | DYE/SYN   | GAV   | RD M3    |
| 2-Aminopyridine   | 504-29-0           | INTR/SYN  | GAV   | RD M3    |
| 4-Aminopyridine   | 504-24-5           | INTR/SYN  | GAV   | RD M3    |
| Comparison study of Aminopyridines/Troponin levels                    | AMINOPYRCOMP       | DYE/N/A   | GAV   | RD M3    |
| Androstenedione   | 63-05-8            | DIET/SYN  | GAV   | R2 M3    |
| Androstenedione   | 63-05-8            | DIET/SYN  | SP    | R2 M3    |
| Arsenic antioxidant mixture   | ANTIOXCOMBO2       |           | WATER | ME       |
| Arsenic antioxidant mixture   | ANTIOXCOMBO2       |           | WATER | MN       |
| Antioxidant model (TRAMP) - N-acetylcysteine                          | 616-91-1           | PHAR/SYN  | GAV   | MU M1    |
| Antioxidant model (TRAMP) - Epigallocatechin gallate                  | 989-51-5           | PHAR/SYN  | GAV   | MU M1    |
| Antioxidant model (TRAMP) - NAO (spinach extract)                     | NAOSPINEXTR        | PHAR/NATL | GAV   | MU M1    |
| Arsine  | 7784-42-1          | ELEC/SYN  | INHAL | H1 NA    |
| 3'-Azido-3'-deoxythymidine and 2',3'-Dideoxycytidine                  | AZTDDCCOMB         | CMOT/SYN  | GAV   | M3       |
| 3'-Azido-3'-deoxythymidine and 2',3'-Dideoxyinosine (AIDS initiative) | AZTDDICOMB         | PHAR/SYN  | GAV   | M3       |
| Azodicarbonamide  | 123-77-3           | RUBR/SYN  | INHAL | R2 M3    |
| AZT/Drug Combinations   | AIDSDRUGSNEO       | PHAR/SYN  | GAV   | MV M3    |
| Transplacental/Neonatal Study   |                    |           |       |          |
| AZT + Methadone HCl (AIDS)  | AZTMETHCOMB        | PHAR/SYN  | GAV   | M3       |
| AZT + Nitazoxanide (AIDS Initiative)                                  | AZT+NITAZOX        | PHAR/SYN  | GAV   | M3       |
| AZT + TMP/SMX (mixture) combination                                   | AZTTMPSTMX         | PHAR      | GAV   | M3       |
| AZT + TMP/SMX (mixture) combination                                   | AZTTMPSTMX         | PHAR      | GAV   | M3       |
| Benzidine dihydrochloride   | 531-85-1           | DYE       | WATER | R2       |
| Benzonitrile  | 100-47-0           | INTR/N/S  | GAV   | R2 M3    |
| Benzyl acetate + glycine combination study                            | GLYCINEBENZA       |           | FEED  | R2       |
| Benzyltrimethyl ammonium chloride                                     | 56-93-9            | DYE       | SP    | R2 M3    |
| 2,2-bis(Bromomethyl)-1,3-propanediol                                  | 3296-90-0          | FLAM/SYN  | GAV   | R2 M3    |
| Bisphenol S   | 80-09-1            | ADHS      | FEED  | M3       |
| Black Cohosh  | 84776-26-1         | DIET/NATL | GAV   | M3       |
| Black Cohosh  | 84776-26-1         | DIET/NATL | GAV   | M3       |
| Black Cohosh  | 84776-26-1         | DIET/NATL | GAV   | RE       |
| Bromobenzene  | 108-86-1           | INTR/SYN  | INHAL | R2 M3    |
| Bromobenzene  | 108-86-1           | INTR/SYN  | GAV   | R2 M3    |
| 1,3-Butadiene   | 106-99-0           | INTR/N/S  | INHAL | R2       |
| n-Butyl Glycidyl Ether  | 2426-08-6          | INTR/SYN  | INHAL | RD M3    |
| tert-Butyl hydroperoxide  | 75-91-2            | INTR/SYN  | SP    | R2 M3    |
| tert-Butyl hydroperoxide  | 75-91-2            | INTR/SYN  | GAV   | R2 M3    |
| tert-Butylphenyl Diphenyl Phosphate                                   | 56803-37-3         |           | GAV   | HSD      |
| Butyraldehyde   | 123-72-8           | FOOD/NATL | GAV   | R2 M3    |
| Caffeine  | 58-08-2            | PHAR/NATL | WATER | R2 M3    |
| DL-Camphor  | 76-22-2            | PLAS/N/S  | SP    | R2 M3    |
| Carbaryl  | 63-25-2            | PEST/SYN  | GAV   | HSD      |
| Carbon disulfide  | 75-15-0            | SOLV/SYN  | INHAL | NA       |
| Carbon disulfide  | 75-15-0            | SOLV/SYN  | INHAL | R2       |
| Carbon disulfide  | 75-15-0            | SOLV/SYN  | INHAL | M1       |
| Cardio Transmitter Gene Evaluation                                    | CARDIOGENEVL       | PHAR      | N/A   | M2       |
| Carisoprodol  | 78-44-4            | PHAR/SYN  | GAV   | R2 M3    |
| Chloramphenicol sodium succinate                                      | 982-57-0           | PHAR/N/S  | FEED  | R2 M3    |
| 3-Chloro-4-(dichloromethyl)-5-hydroxy-2(5H)-furanone (MX)             | 77439-76-0         | COMT      | WATER | M3       |
| bis(2-Chloroethoxy)methane  | 111-91-1           | SOLV/SYN  | GAV   | M3       |
| bis(2-Chloroethoxy)methane  | 111-91-1           | SOLV/SYN  | GAV   | MZ M15   |
|   |                    |           |       | 63       |
| 4-Chloro-2-nitroaniline   | 89-63-4            | DYE/SYN   | GAV   | R2 M3    |
| Chloroprene   | 126-99-8           | PLAS/SYN  | INHAL | MD       |
| Chloroprene   | 126-99-8           | PLAS/SYN  | INHAL | ML MI ME |
| 1-Chloro-2-propanol, technical  | 127-00-4           | INTR/SYN  | INHAL | R2 M3    |
| o-Chloropyridine  | 109-09-1           | COSM/SYN  | SP    | R2 M3    |
| C.I. Phthalocyanine green   | 1328-53-6          | DYE       | FEED  | R2 M3    |
| C.I. Direct Blue 6  | 2602-46-2          | COSM      | WATER | R2       |
| 1,8-Cineol  | 470-82-6           | PHAR/NATL | MICRO | R2 M3    |
| 1,8-Cineol  | 470-82-6           | PHAR/NATL | GAV   | R2 M3    |
| Cinnamaldehyde  | 104-55-2           | FOOD/N/S  | FEED  | R2 M3    |
| trans-Cinnamaldehyde  | 14371-10-9         | FOOD/NATL | GAV   | R2       |
| Citral  | 5392-40-5          | FOOD/NATL | GAV   | R2 M3    |
| Citral  | 5392-40-5          | FOOD/NATL | MICRO | R2 M3    |
| p-Cresidine   | 120-71-8           | DYE       | FEED  | M9 MA M8 |

## Appendix

## Short-Term Studies for Which Toxicity Technical Reports Were Not Prepared

| CHEMICAL NAME  | PRIMARY CAS NUMBER | USE       | ROUTE  | SPECIES          |
|--|--------------------|-----------|--------|------------------|
| Crotonaldehyde                                       | 4170-30-3          | INTR/SYN  | GAV    | R2 M3            |
| Crude MCHM   | CRUDEMCHM          | IND/SYN   | GAV    | HSD              |
| Cumene   | 98-82-8            | ENVH/N/S  | INHAL  | M22 HSD          |
| Cumene hydroperoxide                                 | 80-15-9            | INTR/SYN  | SP     | R2 M3            |
| Cyclanilide  | 113136-77-9        | FERT      | GAV    | HSD              |
| 2-Cyclohexen-1-one                                   | 930-68-7           | INTR/SYN  | INHAL  | R2 M3            |
| Cyclohexene oxide                                    | 286-20-4           | IND/SYN   | SP     | R2 M3            |
| Cyclohexene oxide                                    | 286-20-4           | IND/SYN   | GAV    | R2 M3            |
| Cyclohexene oxide                                    | 286-20-4           | IND/SYN   | GAV    | R2 M3            |
| Cyfluthrin   | 68359-37-5         | PEST      | GAV    | HSD              |
| Cyprodinil   | 121552-61-2        | FUNG      | GAV    | HSD              |
| 2,4-Decadienal                                       | 25152-84-5         | FOOD/N/S  | GAV    | R2 M3            |
| 1,2-Dibromo-2,4-dicyanobutane                        | 35691-65-7         | FUNG/SYN  | GAV    | R2 M3            |
| 1,2-Dibromo-2,4-dicyanobutane                        | 35691-65-7         | FUNG/SYN  | SP     | R2 M3            |
| 5,6-Dichloro-2-benzothiazolamine                     | 24072-75-1         | INTR      | FEED   | R2 M3            |
| cis & trans 1,2-Dichloroethylene                     | 540-59-0           | SOLV/SYN  | MICRO  | R2 M3            |
| cis-1,2-Dichloroethylene                             | 156-59-2           | SOLV      | MICRO  | R2 M3            |
| trans-1,2-Dichloroethylene                           | 156-60-5           | SOLV      | MICRO  | R2 M3            |
| trans-1,2-Dichloroethylene                           | 156-60-5           | SOLV      | GAV    | R2 M3            |
| 2,3-Dichloropropylene                                | 78-88-6            | PEST/SYN  | INHAL  | R2 M3            |
| 2',3'-Dideoxycytidine                                | 7481-89-2          | PHAR/SYN  | GAV    | R2 M3            |
| 2',3'-Dideoxycytidine                                | 7481-89-2          | PHAR/SYN  | GAV    | M3               |
| 2',3'-Dideoxycytidine                                | 7481-89-2          | PHAR/SYN  | GAV    | MB M3            |
| Diet Evaluation Study                                | DIETEVAL           | FEED/N/A  | FEED   | MY               |
| Di(2-ethylhexyl) Phthalate                           | 117-81-7           | PLAS/SYN  | GAV    | HSD              |
| Di(2-ethylhexyl) Phthalate                           | 117-81-7           | PLAS/SYN  | IVOR   | RH               |
| 1,2-Dihydro-2,2,4-trimethylquinoline (polymer)       | 26780-96-1         | RUBR      | SP     | R2 M3            |
| Dimethylamine Borane                                 | 74-94-2            |           | DERMAL | HSD M22          |
| Dimethylaminopropyl chloride, hydrochloride          | 5407-04-5          | INTR/SYN  | GAV    | R2 M3            |
| N,N-Dimethyl-p-toluidine                             | 99-97-8            | INTR/SYN  | GAV    | RD               |
| N,N-Dimethyl-p-toluidine                             | 99-97-8            | INTR/SYN  | GAV    | HSD              |
| Divinylbenzene                                       | 1321-74-0          | PLAS      | INHAL  | HSD              |
| Ephedrine + caffeine combination                     | EPHEDCOMBO         | PHAR/NATL | GAV    | M3               |
| Ephedrine + caffeine combination                     | EPHEDCOMBO         | PHAR/NATL | GAV    | MZ M15<br>63     |
| Estragole  | 140-67-0           | FOOD/NATL | GAV    | HSD              |
| Ethoxyquin   | 91-53-2            | FOOD/SYN  | FEED   | R2 M3            |
| 2-Ethylhexyl Diphenyl Phosphate                      | 1241-94-7          |           | GAV    | HSD              |
| 2-ethyltoluene                                       | 611-14-3           | LABC      | INHAL  | HSD M22          |
| 3-ethyltoluene                                       | 620-14-4           | LABC      | INHAL  | HSD M22          |
| 4-ethyltoluene                                       | 622-96-8           | FUEL      | INHAL  | R8 M22           |
| Ethyl vinyl ketone                                   | 1629-58-9          | INTR/N/S  | INHAL  | R2 M3            |
| Ferrocene  | 102-54-5           | FUEL/SYN  | INHAL  | R2 M3            |
| Flusilazole  | 85509-19-9         | FUNG/SYN  | GAV    | HSD              |
| Flutamide  | 13311-84-7         | CMOT/SYN  | GAV    | HSD              |
| Formaldehyde   | 50-00-0            | DYE/NATL  | INHAL  | M3               |
| Formaldehyde   | 50-00-0            | DYE/NATL  | INHAL  | M1 C3B6<br>B6129 |
| Gallium oxide  | 12024-21-4         | METL/NATL | INHAL  | R2 M3            |
| Garcinia Cambogia Extract                            | 90045-23-1         | DIET/NATL | FEED   | HSD M22          |
| Ginkgo biloba extract                                | 90045-36-6         | DIET/NATL | GAV    | FSAS             |
| Glucosamine  | 3416-24-8          | DIET/NATL | GAV    | ZL ZO            |
| Glucosamine Hydrochloride + Chondroitin Sulfate      | GLUCOSCHONDN       | DIET      | GAV    | ZL ZO            |
| Glyoxal  | 107-22-2           | PAPR/SYN  | WATER  | R2 M3            |
| Goldenseal extract                                   | 84603-60-1         | NATL/N/S  | GAV    | FSAS             |
| Indoxacarb   | 173584-44-6        | FUME      | GAV    | HSD              |
| Insertional mutagenesis (Radiation Levels)           | INSERTMUTRAD       | LABC/N/A  | WB     | MG               |
| Insertional mutagenesis II (SIN vector)              | INSERTMUT2         | LABC      | IV     | MG               |
| Insertional mutagenesis (LTR/SIN vectors)            | INSERTMUT          | LABC      | IV     | MG               |
| Interferon AD + ddC (AIDS Initiative)                | INTDDCCOMB         | PHAR/SYN  | SC/IJ  | M3               |
| Ionic Liquid: 1-Butyl-3-methylimidazolium Chloride   | 79917-90-1         | COSM/SYN  | WATER  | HSD M22          |
| Ionic Liquid: 1-Butyl-1-methylpyrrolidinium Chloride | 479500-35-1        | LABC/SYN  | WATER  | M22 HSD          |
| Ionic liquid Toxicity                                | IONICLIQUIDS       | SYN       | WATER  | M3 HSD           |
| Isodecyl Diphenyl Phosphate                          | 29761-21-5         | PLAS      | GAV    | HSD              |
| Isopropylated Phenol Phosphate                       | 68937-41-7         | FLAM/SYN  | GAV    | HSD              |
| Lead(2+) acetate                                     | 301-04-2           | PHAR/SYN  | FEED   | R2               |
| Lead contaminated soil                               | PBCONTAMSOIL       | COMT/NATL | FEED   | R2               |
| Lead ores  | LEADORES           | METL/NATL | FEED   | R2               |
| Lead oxide   | 1317-36-8          | INTR/N/S  | FEED   | R2               |
| Lead sulfide   | 1314-87-0          | PNT/NATL  | FEED   | R2               |
| Lead sulfide   | 1314-87-0          | PNT/NATL  | FEED   | R2               |
| Lipopolysaccharides from Escherichia coli            | ECOLI_LPS          | COMT/NATL | IP/IJ  | HSD              |

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| CHEMICAL NAME  | PRIMARY CAS NUMBER | USE       | ROUTE | SPECIES      |
|--|--------------------|-----------|-------|--------------|
| Magnetic fields (EMF)                                      | ELECTROMAG         | ELEC      | WB    | MC MD        |
| Melamine + Cyanuric Acid combination                       | MELCYANCOMB        | ADHS/SYN  | GAV   | RC           |
| Melatonin  | 73-31-4            | DIET/N/S  | GAV   | R5 R2        |
| Melatonin  | 73-31-4            | DIET/N/S  | GAV   | R5 R2        |
| 2-Mercaptobenzimidazole                                    | 583-39-1           | ELEC/SYN  | INHAL | R2 M3        |
| 2-Mercaptobenzimidazole                                    | 583-39-1           | ELEC/SYN  | INHAL | R2 M3        |
| Metal working fluids (Syntilo 1023)                        | SYNTILO1023        | METL/SYN  | INHAL | RE M3        |
| Metal working fluids (Trim SC210)                          | TRIMSC210          | METL/SYN  | INHAL | RD M3        |
| Methapyrilene hydrochloride                                | 135-23-9           | PHAR/SYN  | FEED  | R2 M3        |
| Methdilazine   | 1982-37-2          | PHAR/SYN  | GAV   | R2 M3        |
| 6-Methoxy-2-benzothiazolamine                              | 1747-60-0          | INTR      | FEED  | R2 M3        |
| 2-Methoxy-4-nitroaniline                                   | 97-52-9            | SYN       | FEED  | M3 HSD       |
| 4-(6-Methyl-2-benzothiazolyl)-benzenamine                  | 92-36-4            | INTR      | FEED  | R2 M3        |
| Methyl coumarin  | 92-48-8            | FOOD/NATL | GAV   | R2 M3        |
| Methylene blue trihydrate                                  | 7220-79-3          | DYE       | GAV   | R2 M3        |
| Methylene blue trihydrate                                  | 7220-79-3          | DYE       | GAV   | R2 M3        |
| Methyleugenol (TGMX rat liver evaluation)                  | 93-15-2            |           | GAV   | RD           |
| 3-Methyl-6-methoxy-2-amino-benzothiazolium chloride        | EMTDP-76           | INTR      | FEED  | R2 M3        |
| 3-Methyl-6-methoxy-2-amino-benzothiazolium chloride        | EMTDP-76           | INTR      | GAV   | R2           |
| alpha-Methylstyrene  | 98-83-9            | ADHS      | INHAL | R2 M3        |
| Methyl trans-styryl ketone                                 | 1896-62-4          | COSM/SYN  | SP    | R2 M3        |
| Methyl trans-styryl ketone                                 | 1896-62-4          | COSM/SYN  | FEED  | R2 M3        |
| Methyl vinyl ketone  | 78-94-4            | PHAR/SYN  | INHAL | R2 M3        |
| Microcystin-LA (TGMX)                                      | 96180-79-9         | COMT/NATL | IV    | RE           |
| Microcystin-LR (TGMX)                                      | 101043-37-2        | COMT/NATL | IV    | RE           |
| Microcystin mixture (TGMX)                                 | MICROCYSYNMX       | NATL/NATL | IV    | RE           |
| Nanoscale material (Quantum dots)                          | QUANTUMDOTS        | NANO/SYN  | SP    | M0           |
| Nanoscale material (Rutile titanium dioxide)               | 1317-80-2          | NANO/N/S  | SP    | ME           |
| Nanoscale Silver   | 7440-22-4          | TBCO/NATL | GAV   | 44           |
| NCT/DERT standardization experiment (APAP & AMAP)          | NCTSTANDARD        | N/A       | GAV   | MZ           |
| Nitrobenzene   | 98-95-3            | SOLV/SYN  | SP    | R2 M3        |
| m-Nitrobenzoic acid  | 121-92-6           | INTR      | FEED  | R2 M3        |
| 5-(4-Nitrophenyl)-2,4-pentadien-1-al (NPPD)                | 2608-48-2          | LABC      | SP    | R2 M3        |
| 5-(4-Nitrophenyl)-2,4-pentadien-1-al (NPPD)                | 2608-48-2          | LABC      | FEED  | R2 M3        |
| N-Nitrosodiethanolamine                                    | 1116-54-7          | COMT/SYN  | WATER | R2 NA        |
| N-Nitrosodimethylamine (TGMX rat liver evaluation)         | 62-75-9            |           | WATER | RD           |
| p-Nitrotoluene   | 99-99-0            | DYE/SYN   | GAV   | R2 M3        |
| NTP-2000 diet  | DIET2000           | FEED/SYN  | FEED  | R2           |
| NTP-88 diet study (EGMBE)                                  | DIET88+EGMBE       | SOLV/SYN  | WATER | R2 M3        |
| NTP-88 diet study (EGMEE)                                  | DIET88+EGMEE       | SOLV/SYN  | WATER | R2 M3        |
| NTP-88 diet study (EGMME)                                  | DIET88+EGMME       | SOLV/SYN  | WATER | R2 M3        |
| NTP-88 diet study (m-Nitrotoluene)                         | DIET88+MNITR       | DYE       | FEED  | R2 M3        |
| NTP-88 diet study (o-Nitrotoluene)                         | DIET88+ONITR       | DYE       | FEED  | R2 M3        |
| NTP-88 diet study (p-Nitrotoluene)                         | DIET88+PNITR       | DYE       | FEED  | R2 M3        |
| Oxymetholone   | 434-07-1           | PHAR/SYN  | FEED  | R2 M3        |
| Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)] | 32534-81-9         | FLAM/SYN  | GAV   | RE           |
| Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)] | 32534-81-9         | FLAM/SYN  | GAV   | RE           |
| 3,3,4,4,5-Pentachlorobiphenyl (PCB 126)                    | 57465-28-8         | ELEC/SYN  | GAV   | RE           |
| Perfluorooctanoic Acid                                     | 335-67-1           | ELEC/SYN  | GAV   | HSD          |
| Peroxisome project (Dibutyl phthalate)                     | 84-74-2            | PEST/SYN  | FEED  | M3 H1<br>HSD |
| Peroxisome project (2,4-Dichlorophenoxyacetic acid)        | 94-75-7            | PEST/SYN  | FEED  | M3 H1<br>HSD |
| Peroxisome project (Gemfibrozil)                           | 25812-30-0         | PHAR/SYN  | FEED  | M3 H1<br>HSD |
| Phenobarbital  | 50-06-6            | PHAR/SYN  | GAV   | RE           |
| Phosphine  | 7803-51-2          | PEST/NATL | INHAL | R2 M3        |
| Pregnancy Rate Comparison Study                            | PREGRATECOMP       | N/A       | N/A   | HSD<br>HSDI  |
| Prevention 1 (Melatonin)                                   | 73-31-4            | DIET/NATL | GAV   | MA           |
| Prevention 2 (Melatonin)                                   | 73-31-4            | PHAR/N/S  | FEED  | MA           |
| Prevention 2 (Silymarin)                                   | 65666-07-1         | PHAR/NATL | FEED  | MA           |
| Prevention 2 (Silymarin + melatonin)                       | SILYMARN+MEL       | DIET/N/S  | FEED  | MA           |
| Prevention 3 (Melatonin)                                   | 73-31-4            | PHAR/N/S  | FEED  | MA           |
| Prevention 6 (low isoflavone soy protein powder)           | ISOFLAVSOYPT       | FOOD/NATL | FEED  | MA           |
| Prevention 4 (Curcumin)                                    | 458-37-7           | FOOD/NATL | FEED  | MA           |
| Prevention 7 (feed controls)                               | PREVENTION7        | FEED      | FEED  | MA           |
| Prevention 1 (Flaxseed oil)                                | 8001-26-1          | DIET/NATL | GAV   | MA           |

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| CHEMICAL NAME   | PRIMARY CAS NUMBER | USE       | ROUTE | SPECIES  |
|---|--------------------|-----------|-------|----------|
| Prevention 1 (Flaxseed oil + melatonin)   | FLAXSEED+MEL       | DIET/N/S  | GAV   | MA       |
| Prevention 4 (Indole-3-carbinol)  | 700-06-1           | FOOD/N/S  | FEED  | MA       |
| Prevention 6 (isoflavone concentrate)   | ISOFLAVCONCN       | NATL/NATL | FEED  | MA       |
| Prevention 4 (Melatonin)  | 73-31-4            | PHAR/NATL | FEED  | MA       |
| Prevention 5 (Melatonin)  | 73-31-4            | PHAR/N/S  | FEED  | MA       |
| Prevention 4 (Melatonin + curcumin)   | MEL+CURCUMIN       | DYE/NATL  | FEED  | MA       |
| Prevention 4 (Melatonin + indole-3-carbinol)  | MEL+INDOLCAR       | PHAR      | FEED  | MA       |
| Prevention 10 (Soy isoflavone concentrate)  | PREVENTION10       | NATL/NATL | FEED  | MA       |
| Propantheline bromide   | 50-34-0            | PHAR/SYN  | FEED  | R2 M3    |
| Pyridine  | 110-86-1           | SOLV/SYN  | GAV   | M3       |
| 2,5-Pyridinedicarboxylic Acid, Dipropyl Ester   | 136-45-8           | HERB/SYN  | GAV   | HSD      |
| QT drugs (bepidil hydrochloride)  | 74764-40-2         | PHAR/SYN  | CAPS  | O3       |
| QT drugs (diltiazem hydrochloride)  | 33286-22-5         | PHAR/SYN  | CAPS  | O3       |
| QT drugs (Loratadine)   | 79794-75-5         | PHAR/SYN  | CAPS  | O3       |
| QT drugs (Lovastatin)   | 75330-75-5         | PHAR/SYN  | CAPS  | O3       |
| QT drugs (sotalol hydrochloride)  | 959-24-0           | PHAR/SYN  | CAPS  | O3       |
| QT drugs (terfenadine)  | 50679-08-8         | PHAR/SYN  | CAPS  | O3       |
| Rat feed study (TGMX rat liver evaluation)  | TGMXRALVFEEED      | N/A       | FEED  | RD       |
| Reserpine   | 50-55-5            | PHAR/NATL | FEED  | M9 M8 MA |
| Retinoid project 2 (4-(Hydroxyphenyl)retinamide)  | 65646-68-6         | PHAR/N/S  | FEED  | MA       |
| Retinoid project 1  | RETINOID1          | PHAR/N/S  | FEED  | MA       |
| Retinoid project 3 (Retinol acetate)  | 127-47-9           | PHAR/N/S  | FEED  | MA       |
| Retinoid project 4 (4-(Hydroxyphenyl)retinamide)  | 65646-68-6         | PHAR/N/S  | FEED  | MA       |
| Retinoid project 5 (4-(Hydroxyphenyl)retinamide)  | 65646-68-6         | PHAR/N/S  | FEED  | MA       |
| Retinoid project 6 (Arotinoid)  | 125533-88-2        | PHAR/N/S  | FEED  | MA       |
| Retinoid project 3 (Arotinoid)  | 125533-88-2        | PHAR/N/S  | FEED  | MA       |
| Retinoid project 5 (Arotinoid)  | 125533-88-2        | CMOT      | FEED  | MA       |
| Retinoid project 6 (4-HPR)  | 65646-68-6         | PHAR/N/S  | FEED  | MA       |
| Retroviral vectors  | RETROVIRVECT       | PHAR      | IP/IJ | M3       |
| Retroviral vectors  | RETROVIRVECT       | PHAR      | IP/IJ | R2       |
| Retroviral vectors  | RETROVIRVECT       | PHAR      | WB    | R2 MD M3 |
| Retroviral vectors  | RETROVIRVECT       | PHAR      | IV    | RD M3    |
| Scopolamine hydrobromide trihydrate   | 6533-68-2          | PHAR/SYN  | WATER | R2 M3    |
| Silica, crystalline - quartz  | 14808-60-7         | ELEC/NATL | INHAL | R2       |
| Silica, crystalline - quartz  | 14808-60-7         | ELEC/NATL | INHAL | R2       |
| Silica, crystalline - quartz  | 14808-60-7         | ELEC/NATL | INHAL | R2       |
| Simazine  | 122-34-9           | HERB/SYN  | GAV   | HSD      |
| Styrene   | 100-42-5           | RUBR/SYN  | INHAL | R2 M3    |
| Tebufenpyrad  | 119168-77-3        | PEST      | GAV   | HSD      |
| TEF transgenics (PCB 126)   | 57465-28-8         |           | SP    | ME       |
| TEF transgenics (PCB 126 / PECDF mixture)   | TEFTGMIXTURE       |           | SP    | ME       |
| TEF transgenics (PECDF)   | 57117-31-4         |           | SP    | ME       |
| TEF transgenics (TCDD)  | 1746-01-6          |           | SP    | ME       |
| Tetrabromobisphenol A   | 79-94-7            | FLAM      | GAV   | RE       |
| 2,2',4,4'-Tetrabromodiphenyl Ether  | 5436-43-1          | ENVH/SYN  | GAV   | MM MK    |
| 2,2',4,4'-Tetrabromodiphenyl Ether  | 5436-43-1          | ENVH/SYN  | GAV   | RE       |
| 3,3',4,4'-Tetrachloroazobenzene   | 14047-09-7         | PEST/SYN  | GAV   | R8       |
| 1,1,2,2-Tetrachloroethane   | 79-34-5            | SOLV/SYN  | GAV   | R2 M3    |
| Tetradecanoyl phorbol acetate (TPA)   | 16561-29-8         | REAG/NATL | SP    | ME       |
| Tetrahydrofuran   | 109-99-9           | FDPK/SYN  | GAV   | R2 M3    |
| 4,4-Thiobis(6-tert-butyl-m-cresol)  | 96-69-5            | FDPK/SYN  | FEED  | R2 M3    |
| Thiophene   | 110-02-1           | PHAR/N/S  | INHAL | R2 M3    |
| D-alpha-Tocopheryl acetate  | 58-95-7            | DIET/NATL | GAV   | R2 R8    |
| p-Toluidine   | 106-49-0           | INTR/SYN  | GAV   | RD       |
| Toxicogenomics study of allylbenzene & propenylbenzene class flavor constituents (TGMX) | TGMXFLAVCLAS       | FOOD/N/S  | GAV   | RD       |
| Transgenic LECM (1-Chloro-2-propanol, technical)  | 127-00-4           | INTR/SYN  | WATER | MD       |
| Transgenic LECM (1-Chloro-2-propanol, technical)  | 127-00-4           | INTR/SYN  | SP    | ME       |
| Transgenic LECM (Coconut oil acid diethanolamine condensate)                            | 68603-42-9         | TEXTL/N/S | SP    | ME       |
| Transgenic LECM (Coconut oil acid diethanolamine condensate)                            | 68603-42-9         | TEXTL/N/S | SP    | MD       |
| Transgenic LECM (Furfuryl alcohol)  | 98-00-0            | FOOD/N/S  | SP    | ME       |
| Transgenic LECM (Lauric acid diethanolamine condensate)                                 | 120-40-1           | DTRG/SYN  | SP    | MD       |
| Transgenic LECM (Lauric acid diethanolamine condensate)                                 | 120-40-1           | DTRG/SYN  | SP    | ME       |

## Appendix

## Short-Term Studies for Which Toxicity Technical Reports Were Not Prepared

| CHEMICAL NAME  | PRIMARY CAS NUMBER | USE       | ROUTE | SPECIES |
|--|--------------------|-----------|-------|---------|
| Transgenic LECM (Oleic acid diethanolamine condensate)         | 93-83-4            | COSM/SYN  | SP    | MD      |
| Transgenic LECM (Oleic acid diethanolamine condensate)         | 93-83-4            | COSM/SYN  | SP    | ME      |
| Transgenic LECM (Pentachlorophenol)                            | 87-86-5            | PEST/SYN  | FEED  | MD      |
| Transgenic LECM (Pentachlorophenol)                            | 87-86-5            | PEST/SYN  | SP    | ME      |
| Transgenic LECM (Pyridine)                                     | 110-86-1           | SOLV/SYN  | WATER | MD      |
| Transgenic LECM (Pyridine)                                     | 110-86-1           | SOLV/SYN  | SP    | ME      |
| Transgenic LECM (Tetradecanoyl phorbol acetate (TPA))          | 16561-29-8         | NATL/NATL | SP    | MN      |
| Transgenic LEP (p-Anisidine hydrochloride)                     | 20265-97-8         | INTR/SYN  | FEED  | MH MO   |
| Transgenic LEP (Cyclosporin A)                                 | 59865-13-3         | PHAR/NATL | GAV   | MH MO   |
| Transgenic LEP (Melphalan)                                     | 148-82-3           | CMOT/SYN  | GAV   | MO MH   |
| Transgenic LEP (p-Cresidine)                                   | 120-71-8           | DYE       | FEED  | MO MH   |
| Transgenic LEP (Resorcinol)                                    | 108-46-3           | PHAR/SYN  | GAV   | MH MO   |
| Transgenic LEP (Vinyl carbamate)                               | 15805-73-9         | INTR/SYN  | IP/IJ | MH MO   |
| Transgenic model evaluation (p-Anisidine HCl)                  | 20265-97-8         | DYE       | SP    | ME      |
| Transgenic model evaluation (Bromodichloromethane)             | 75-27-4            | INTR/SYN  | GAV   | MP      |
| Transgenic model evaluation (Bromodichloromethane)             | 75-27-4            | INTR/SYN  | WATER | MP      |
| Transgenic model evaluation (Cyclophosphamide monohydrate)     | 6055-19-2          | CMOT/SYN  | SP    | MN MI   |
| Transgenic model evaluation (Cyclophosphamide monohydrate)     | 6055-19-2          | CMOT/SYN  | GAV   | MN MI   |
| Transgenic model evaluation (Cyclosporin A)                    | 59865-13-3         | PHAR/N/S  | GAV   | ME      |
| Transgenic model evaluation (Cyclosporin A)                    | 59865-13-3         | PHAR/N/S  | GAV   | MD      |
| Transgenic model evaluation (DES)                              | 56-53-1            | PHAR/SYN  | SP    | ME      |
| Transgenic model evaluation (DES)                              | 56-53-1            | PHAR/SYN  | SC/IJ | MD      |
| Transgenic model evaluation (DES)                              | 56-53-1            | PHAR/SYN  | SP    | MI MN   |
| Transgenic model evaluation (DES)                              | 56-53-1            | PHAR/SYN  | GAV   | MN MI   |
| Transgenic model evaluation (2,4-Diaminotoluene)               | 95-80-7            | DYE/SYN   | SP    | ME      |
| Transgenic model evaluation (2,4-Diaminotoluene)               | 95-80-7            | DYE/SYN   | FEED  | MD      |
| Transgenic model evaluation (2,6-Diaminotoluene 2HCl)          | 15481-70-6         | SYN       | SP    | ME      |
| Transgenic model evaluation (2,6-Diaminotoluene 2HCl)          | 15481-70-6         | SYN       | FEED  | MD      |
| Transgenic model evaluation (Di(2-ethylhexyl) phthalate)       | 117-81-7           | PLAS/SYN  | SP    | MN      |
| Transgenic model evaluation (Di(2-ethylhexyl) phthalate)       | 117-81-7           | PLAS/SYN  | FEED  | MN      |
| Transgenic model evaluation (Ethinyl estradiol)                | 57-63-6            | PHAR/N/S  | SP    | MI MN   |
| Transgenic model evaluation (Ethinyl estradiol)                | 57-63-6            | PHAR/N/S  | GAV   | MN MI   |
| Transgenic model evaluation (8-Hydroxyquinoline)               | 148-24-3           | GERM/N/S  | SP    | ME      |
| Transgenic model evaluation (8-Hydroxyquinoline)               | 148-24-3           | GERM/N/S  | FEED  | MD      |
| Transgenic model evaluation (Melphalan)                        | 148-82-3           | CMOT/SYN  | SP    | ME      |
| Transgenic model evaluation (Melphalan)                        | 148-82-3           | CMOT/SYN  | IP/IJ | MD      |
| Transgenic model evaluation (Melphalan)                        | 148-82-3           | CMOT/SYN  | SP    | MI MN   |
| Transgenic model evaluation (Melphalan)                        | 148-82-3           | CMOT/SYN  | GAV   | MN MI   |
| Transgenic model evaluation (Melphalan)                        | 148-82-3           | CMOT/SYN  | GAV   | MI      |
| Transgenic model evaluation (N-Methylolacrylamide)             | 924-42-5           | PLAS/SYN  | GAV   | ME      |
| Transgenic model evaluation (N-Methylolacrylamide)             | 924-42-5           | PLAS/SYN  | SP    | ME      |
| Transgenic model evaluation (Methylphenidate hydrochloride)    | 298-59-9           | PHAR/SYN  | FEED  | ME MD   |
| Transgenic model evaluation (Phenolphthalein)                  | 77-09-8            | PHAR/SYN  | FEED  | MD      |
| Transgenic model evaluation (Resorcinol)                       | 108-46-3           | PHAR/SYN  | SP    | ME      |
| Transgenic model evaluation (Resorcinol)                       | 108-46-3           | PHAR/SYN  | GAV   | MD      |
| Transgenic model evaluation (Rotenone)                         | 83-79-4            | PEST/NATL | SP    | ME      |
| Transgenic model evaluation (Rotenone)                         | 83-79-4            | PEST/NATL | FEED  | MD      |
| Transgenic Model Evaluation (2,3,7,8-Tetrachlorodibenzodioxin) | 1746-01-6          | COMT/SYN  | SP    | ME      |
| Transgenic Model Evaluation (2,3,7,8-Tetrachlorodibenzodioxin) | 1746-01-6          | COMT/SYN  | GAV   | MD      |
| Transgenic Model Evaluation (2,3,7,8-Tetrachlorodibenzodioxin) | 1746-01-6          | COMT/SYN  | GAV   | ME      |

## Appendix

## Short-Term Studies for Which Toxicity Technical Reports Were Not Prepared

| CHEMICAL NAME   | PRIMARY CAS NUMBER | USE       | ROUTE | SPECIES |
|---|--------------------|-----------|-------|---------|
| Transgenic Model Evaluation<br>(2,3,7,8-Tetrachlorodibenzodioxin) | 1746-01-6          | COMT/SYN  | SP    | ME      |
| Transgenic model evaluation (WY-14643)                            | 50892-23-4         | PHAR/SYN  | SP    | MN      |
| Transgenic model evaluation (WY-14643)                            | 50892-23-4         | PHAR/SYN  | FEED  | MN      |
| Transgenic LECM (diethanolamine)                                  | 111-42-2           | TEXL/SYN  | SP    | MN      |
| Triamterene   | 396-01-0           | PHAR/SYN  | FEED  | R2 M3   |
| Trichlorfon   | 52-68-6            | PEST/SYN  | FEED  | R2 M3   |
| Trichloroethylene   | 79-01-6            | ADHS/SYN  | FEED  | R2      |
| Trichloroethylene   | 79-01-6            | ADHS/SYN  | GAV   | R2      |
| 1,2,3-Trichloropropane  | 96-18-4            | PNT/SYN   | GAV   | R2 M3   |
| Triclosan   | 3380-34-5          | COSM/SYN  | GAV   | HSD     |
| Tricresyl Phosphate   | 1330-78-5          | FLAM/SYN  | GAV   | HSD     |
| Tricresyl Phosphate   | 1330-78-5          | FLAM/SYN  | GAV   | R2 M3   |
| Triethanolamine   | 102-71-6           | COSM/SYN  | WATER | R2 M3   |
| Triethanolamine   | 102-71-6           | COSM/SYN  | SP    | R2 M3   |
| Triethanolamine   | 102-71-6           | COSM/SYN  | INHAL | R2 M3   |
| Trimellitic anhydride   | 552-30-7           | INTR/SYN  | FEED  | R2 M3   |
| Trimellitic anhydride   | 552-30-7           | INTR/SYN  | GAV   | R2 M3   |
| Tripelennamine hydrochloride                                      | 154-69-8           | PHAR/SYN  | FEED  | R2 M3   |
| Triphenyl Phosphate   | 115-86-6           | FLAM/SYN  | GAV   | HSD     |
| Vincamine   | 1617-90-9          | DIET/NATL | GAV   | M3 HSD  |
| Vinclozolin   | 50471-44-8         | FUNG/SYN  | GAV   | HSD     |
| Vinylidene fluoride   | 75-38-7            | SOLV/SYN  | INHAL | R2 M3   |
| Water disinfection byproducts<br>(Bromodichloroacetic Acid)       | 71133-14-7         | ENVH/NATL | WATER | R2 M3   |
| Water disinfection byproducts<br>(Bromodichloromethane)           | 75-27-4            | FLAM/SYN  | WATER | R2 M3   |
| Water disinfection byproducts<br>(Bromodichloromethane)           | 75-27-4            | FLAM/SYN  | GAV   | R2 M3   |
| Water disinfection byproducts<br>(Dibromoacetic acid)             | 631-64-1           | WATR/SYN  | WATER | R2 M3   |
| Water disinfection byproducts<br>(Dichloroacetic acid)            | 79-43-6            | GERM/SYN  | WATER | R2 M3   |
| Welding fumes   | STEELWELDFUM       | METL      |       |         |
| Wyeth 14,643 (WY)   | 50892-23-4         | PHAR/SYN  | GAV   | HSD     |



| Index of Chemicals by Chemical Abstracts Service<br>Registry Number (CASRN) with Reference Location |  |      |     | Index of Chemicals by Chemical Abstracts Service<br>Registry Number (CASRN) with Reference Location |  |      |     |
|---|--|------|-----|---|--|------|-----|
| CASRN   | CHEMICAL NAME  | PAGE | REF | CASRN   | CHEMICAL NAME  | PAGE | REF |
|   |  |      |     | 57-22-7   | Vincristine  | 50   | 17  |
| 50-00-0   | Formaldehyde   | 52   | *   | 57-41-0   | 5,5-Diphenylhydantoin (phenytoin)  | 43   | 16  |
| 50-00-0   | Formaldehyde   | 52   | *   | 57-63-6   | Endocrine disruptor (Ethinyl estradiol)  | 43   | 16  |
| 50-06-6   | Phenobarbital  | 53   | *   | 57-63-6   | Endocrine disruptor (Ethinyl estradiol)  | 43   | 16  |
| 50-07-7   | Mitomycin C  | 49   | 17  | 57-63-6   | Endocrine disruptor (Ethinyl estradiol)  | 43   | 16  |
| 50-18-0   | Cyclophosphamide   | 49   | 17  | 57-63-6   | Endocrine disruptor (Ethinyl estradiol)  | 43   | 16  |
| 50-29-3   | Dichlorodiphenyltrichloroethane (DDT)  | 42   | 16  | 57-63-6   | Ethinyl estradiol  | 32   | 5   |
| 50-33-9   | Phenylbutazone   | 46   | 16  | 57-63-6   | Transgenic model evaluation (Ethinyl estradiol)                                    | 55   | *   |
| 50-34-0   | Propantheline bromide  | 54   | *   | 57-63-6   | Transgenic model evaluation (Ethinyl estradiol)                                    | 55   | *   |
| 50-44-2   | 6-Mercaptopurine   | 49   | 17  | 57-66-9   | Probenecid   | 46   | 16  |
| 50-55-5   | Reserpine  | 47   | 16  | 57-68-1   | Sulfamethazine   | 47   | 16  |
| 50-55-5   | Reserpine  | 54   | *   | 57-68-1   | Sulfamethazine   | 47   | 16  |
| 50-76-0   | Actinomycin D  | 49   | 17  | 57-74-9   | Chlordane (analytical grade)   | 41   | 16  |
| 50-81-7   | L-Ascorbic acid  | 40   | 16  | @ 57-97-6   | Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG) (Primary CASRN is INIT/PROM) | 44   | 16  |
| 51-03-6   | Piperonyl butoxide   | 46   | 16  | @ 57-97-6   | Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG) (Primary CASRN is INIT/PROM) | 44   | 16  |
| 51-79-6   | Urethane   | 39   | 16  | @ 57-97-6   | Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG) (Primary CASRN is INIT/PROM) | 44   | 16  |
| 51-79-6   | Urethane   | 48   | 16  | @ 57-97-6   | Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG) (Primary CASRN is INIT/PROM) | 44   | 16  |
| @ 51-79-6   | Urethane + ethanol (combination) (Primary CASRN is URETHCOMB)                | 39   | 16  | @ 57-97-6   | Magnetic fields + DMBA initiation promotion (Primary CASRN is EMF+DMBA)            | 38   | 16  |
| @ 51-79-6   | Urethane + ethanol (combination) (Primary CASRN is URETHCOMB)                | 48   | 16  | 58-08-2   | Caffeine   | 51   | *   |
| 52-24-4   | tris(Aziridinyl)-phosphine sulfide (Thio-TEPA)                               | 48   | 16  | @ 58-08-2   | Ephedrine + caffeine combination (Primary CASRN is EPHEDCOMBO)                     | 52   | *   |
| 52-68-6   | Trichlorfon  | 56   | *   | @ 58-08-2   | Ephedrine + caffeine combination (Primary CASRN is EPHEDCOMBO)                     | 52   | *   |
| 53-03-2   | Prednisone   | 50   | 17  | 58-14-0   | Pyrimethamine  | 46   | 16  |
| 53-19-0   | o,p'-DDD   | 49   | 17  | 58-33-3   | Promethazine hydrochloride   | 38   | 16  |
| 54-31-9   | Furosemide   | 43   | 16  | 58-33-3   | Promethazine hydrochloride   | 46   | 16  |
| @ 54-85-3   | AZT + Isoniazid (AIDS Initiative) (Primary CASRN is AZTISONIAZID)            | 36   | 16  | 58-55-9   | Theophylline   | 39   | 16  |
| 55-31-2   | Epinephrine hydrochloride  | 43   | 16  | 58-55-9   | Theophylline   | 39   | 16  |
| 55-38-9   | Fenthion   | 43   | 16  | 58-55-9   | Theophylline   | 47   | 16  |
| 56-23-5   | Carbon tetrachloride   | 49   | 17  | 58-89-9   | Lindane  | 44   | 16  |
| @ 56-23-5   | Chemical mixture - drinking water contaminants (Primary CASRN is CHEMMIXH2O) | 36   | 16  | 58-93-5   | Hydrochlorothiazide  | 44   | 16  |
| 56-38-2   | Parathion  | 46   | 16  | @ 58-95-7   | Arsenic antioxidant mixture (Primary CASRN is ANTIOXCOMBO2)                        | 51   | *   |
| @ 56-40-6   | Benzyl acetate + glycine combination study (Primary CASRN is GLYCINEBENZA)   | 51   | *   | @ 58-95-7   | Arsenic antioxidant mixture (Primary CASRN is ANTIOXCOMBO2)                        | 51   | *   |
| 56-53-1   | Transgenic model evaluation (DES)  | 55   | *   | 58-95-7   | D-alpha-Tocopheryl acetate   | 54   | *   |
| 56-53-1   | Transgenic model evaluation (DES)  | 55   | *   | 59-05-2   | Methotrexate   | 49   | 17  |
| 56-53-1   | Transgenic model evaluation (DES)  | 55   | *   | 59-87-0   | Nitrofurazone  | 45   | 16  |
| 56-53-1   | Transgenic model evaluation (DES)  | 55   | *   | 59-87-0   | Nitrofurazone  | 49   | 17  |
| 56-72-4   | Coumaphos  | 42   | 16  | 60-13-9   | DL-amphetamine sulfate   | 39   | 16  |
| 56-93-9   | Benzyltrimethyl ammonium chloride  | 36   | 16  | 60-51-5   | Dimethoate   | 43   | 16  |
| 56-93-9   | Benzyltrimethyl ammonium chloride  | 51   | *   | 60-57-1   | Dieldrin   | 42   | 16  |
| 56-93-9   | Benzyltrimethyl ammonium chloride  | 36   | 16  | 60-57-1   | Dieldrin   | 42   | 16  |
| 57-06-7   | Allyl isothiocyanate   | 39   | 16  | 61-76-7   | Phenylephrine hydrochloride  | 46   | 16  |
| @ 57-14-7   | Asbestos, chrysotile(IR) + Dimethyl hydrazine (Primary CASRN is 12001-29-5)  | 40   | 16  | 62-23-7   | p-Nitrobenzoic acid  | 38   | 16  |
| @ 57-14-7   | Asbestos, chrysotile(IR) + Dimethyl hydrazine (Primary CASRN is 12001-29-5)  | 40   | 16  | 62-23-7   | p-Nitrobenzoic acid  | 45   | 16  |
| 57-14-7   | Dimethyl hydrazine (DMH)   | 49   | 17  |   |  |      |     |

@ Denotes multiple CASRNs for study -- see following line for primary CASRN

\* See Appendix, Short-Term Studies for Which Toxicity Technical Reports Were Not Prepared

| Index of Chemicals by Chemical Abstracts Service<br>Registry Number (CASRN) with Reference Location |  |      |     | Index of Chemicals by Chemical Abstracts Service<br>Registry Number (CASRN) with Reference Location |  |      |     |
|---|--|------|-----|---|--|------|-----|
| CASRN   | CHEMICAL NAME  | PAGE | REF | CASRN   | CHEMICAL NAME  | PAGE | REF |
| 62-73-7   | Dichlorvos   | 42   | 16  | @ 71-55-6   | Chemical mixture - drinking water<br>contaminants<br>(Primary CASRN is CHEMMIXH20)     | 36   | 16  |
| 62-73-7   | Dichlorvos   | 42   | 16  |   |  |      |     |
| 62-75-9   | N-Nitrosodimethylamine (TGMX rat<br>liver evaluation)                                    | 53   | *   | 71-55-6   | Halogenated ethanes CS<br>(1,1,1-Trichloroethane)                                      | 37   | 16  |
| 63-05-8   | Androstenedione  | 51   | *   | 71-55-6   | 1,1,1-Trichloroethane  | 48   | 16  |
| 63-05-8   | Androstenedione  | 51   | *   | 71-55-6   | 1,1,1-Trichloroethane  | 39   | 16  |
| 63-05-8   | Androstenedione  | 40   | 16  | 72-20-8   | Endrin   | 43   | 16  |
| 63-25-2   | Carbaryl   | 51   | *   | 72-43-5   | Methoxychlor   | 45   | 16  |
| 63-92-3   | Phenoxybenzamine hydrochloride   | 46   | 16  | 72-54-8   | Tetrachlorodiphenylethane  | 47   | 16  |
| 64-17-5   | Ethanol  | 43   | 16  | 72-55-9   | p,p'-Dichlorodiphenyl<br>dichloroethylene  | 42   | 16  |
| @ 64-17-5   | Urethane + ethanol (combination)<br>(Primary CASRN is URETHCOMB)                         | 39   | 16  | 72-56-0   | Di(p-ethylphenyl)dichloroethane  | 42   | 16  |
| @ 64-17-5   | Urethane + ethanol (combination)<br>(Primary CASRN is URETHCOMB)                         | 48   | 16  | 73-22-3   | L-Tryptophan   | 48   | 16  |
| 64-18-6   | Formic acid  | 37   | 16  | 73-31-4   | Melatonin  | 53   | *   |
| 64-75-5   | Tetracycline hydrochloride   | 47   | 16  | 73-31-4   | Melatonin  | 53   | *   |
| 64-77-7   | Tolbutamide  | 48   | 16  | 73-31-4   | Prevention 1 (Melatonin)   | 53   | *   |
| 66-75-1   | Uracil mustard   | 50   | 17  | 73-31-4   | Prevention 2 (Melatonin)   | 53   | *   |
| @ 66-84-2   | Glucosamine Hydrochloride +<br>Chondroitin Sulfate<br>(Primary CASRN is<br>GLUCOSCHONDN) | 52   | *   | @ 73-31-4   | Prevention 2 (Silymarin +<br>melatonin)<br>(Primary CASRN is<br>SILLYMARN+MEL)         | 53   | *   |
| 67-20-9   | Nitrofurantoin   | 45   | 16  | 73-31-4   | Prevention 3 (Melatonin)   | 53   | *   |
| 67-47-0   | 5-(Hydroxymethyl)-2-furfural   | 37   | 16  | @ 73-31-4   | Prevention 1 (Flaxseed oil +<br>melatonin)<br>(Primary CASRN is<br>FLAXSEED+MEL)       | 54   | *   |
| 67-47-0   | 5-(Hydroxymethyl)-2-furfural   | 44   | 16  |   |  |      |     |
| @ 67-56-1   | Crude MCHM<br>(Primary CASRN is CRUDEMCHM)   | 52   | *   | 73-31-4   | Prevention 4 (Melatonin)   | 54   | *   |
| 67-64-1   | Acetone  | 36   | 16  | 73-31-4   | Prevention 5 (Melatonin)   | 54   | *   |
| @ 67-64-1   | Chemical mixture - drinking water<br>contaminants<br>(Primary CASRN is CHEMMIXH20)       | 36   | 16  | @ 73-31-4   | Prevention 4 (Melatonin +<br>curcumin)<br>(Primary CASRN is<br>MEL+CURCUMIN)           | 54   | *   |
| @ 67-66-3   | Chemical mixture - drinking water<br>contaminants<br>(Primary CASRN is CHEMMIXH20)       | 36   | 16  | @ 73-31-4   | Prevention 4 (Melatonin + indole-<br>3-carbinol)<br>(Primary CASRN is<br>MEL+INDOLCAR) | 54   | *   |
| 67-66-3   | Chloroform   | 41   | 16  |   |  |      |     |
| 67-72-1   | Halogenated ethanes CS<br>(Hexachloroethane)   | 37   | 16  | 74-83-9   | Methyl bromide   | 38   | 16  |
| 67-72-1   | Hexachloroethane   | 44   | 16  | 74-83-9   | Methyl bromide   | 45   | 16  |
| 67-72-1   | Hexachloroethane   | 44   | 16  | 74-83-9   | Methyl bromide   | 38   | 16  |
| 68-12-2   | Dimethylformamide  |      | 16  | 74-94-2   | Dimethylamine Borane   | 52   | *   |
| @ 68-26-8   | Retinoid project 1<br>(Primary CASRN is RETINOID1)                                       | 54   | *   | 74-96-4   | Bromoethane (ethyl bromide)  | 40   | 16  |
| 69-65-8   | D-Mannitol   | 44   | 16  | 75-00-3   | Chloroethane   | 41   | 16  |
| @ 70-25-7   | Init/prom comparative mouse study<br>(DMBA/TPA/BPO/MNNG)<br>(Primary CASRN is INIT/PROM) | 44   | 16  | 75-05-8   | Acetonitrile   | 50   | *   |
| @ 70-25-7   | Init/prom comparative mouse study<br>(DMBA/TPA/BPO/MNNG)<br>(Primary CASRN is INIT/PROM) | 44   | 16  | 75-05-8   | Acetonitrile   | 39   | 16  |
| @ 70-25-7   | Init/prom comparative mouse study<br>(DMBA/TPA/BPO/MNNG)<br>(Primary CASRN is INIT/PROM) | 44   | 16  | @ 75-09-2   | Chemical mixture - drinking water<br>contaminants<br>(Primary CASRN is CHEMMIXH20)     | 36   | 16  |
| @ 70-25-7   | Init/prom comparative mouse study<br>(DMBA/TPA/BPO/MNNG)<br>(Primary CASRN is INIT/PROM) | 44   | 16  | 75-09-2   | Methylene chloride   | 45   | 16  |
| 70-30-4   | Hexachlorophene  | 44   | 16  | 75-12-7   | Formamide  | 37   | 16  |
| 70-55-3   | p-Toluenesulfonamide   | 39   | 16  | 75-12-7   | Formamide  | 43   | 16  |
| 71-43-2   | Benzene  | 40   | 16  | 75-15-0   | Carbon disulfide   | 51   | *   |
| @ 71-43-2   | Chemical mixture - drinking water<br>contaminants<br>(Primary CASRN is CHEMMIXH20)       | 36   | 16  | 75-15-0   | Carbon disulfide   | 51   | *   |
| 71-43-2   | Transgenic model evaluation II<br>(Benzene)  | 35   | 16  | 75-15-0   | Carbon disulfide   | 51   | *   |
|   |  |      |     | 75-21-8   | Ethylene oxide   | 43   | 16  |
|   |  |      |     | @ 75-25-2   | Chemical mixture - drinking water<br>contaminants<br>(Primary CASRN is CHEMMIXH20)     | 36   | 16  |
|   |  |      |     | 75-25-2   | Tribromomethane  | 48   | 16  |
|   |  |      |     | 75-27-4   | Bromodichloromethane   | 40   | 16  |

@ Denotes multiple CASRNs for study -- see following line for primary CASRN

\* See Appendix, Short-Term Studies for Which Toxicity Technical Reports Were Not Prepared

| Index of Chemicals by Chemical Abstracts Service<br>Registry Number (CASRN) with Reference Location |  |      |     | Index of Chemicals by Chemical Abstracts Service<br>Registry Number (CASRN) with Reference Location |  |      |     |
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| CASRN   | CHEMICAL NAME  | PAGE | REF | CASRN   | CHEMICAL NAME  | PAGE | REF |
| 75-27-4   | Transgenic model evaluation<br>(Bromodichloromethane)                              | 55   | *   | 77-47-4   | Hexachlorocyclopentadiene  | 44   | 16  |
| 75-27-4   | Transgenic model evaluation<br>(Bromodichloromethane)                              | 55   | *   | 77-65-6   | Carbromal  | 41   | 16  |
| 75-27-4   | Water disinfection byproducts<br>(Bromodichloromethane)                            | 56   | *   | 77-79-2   | 3-Sulfolene  | 47   | 16  |
| 75-27-4   | Water disinfection byproducts<br>(Bromodichloromethane)                            | 56   | *   | 78-11-5   | Pentaerythritol tetranitrate   | 46   | 16  |
| 75-27-4   | Water disinfection byproducts<br>(Bromodichloromethane)                            | 48   | 16  | 78-34-2   | Dioxathion   | 43   | 16  |
| 75-27-4   | Water disinfection model<br>(Bromodichloromethane)                                 | 35   | 16  | 78-42-2   | tris(2-Ethylhexyl)phosphate  | 48   | 16  |
| 75-27-4   | Water disinfection model<br>(Bromodichloromethane)                                 | 35   | 16  | 78-44-4   | Carisoprodol   | 51   | *   |
| 75-27-4   | Water disinfection model<br>(Bromodichloromethane)                                 | 35   | 16  | 78-44-4   | Carisoprodol   | 36   | 16  |
| 75-27-4   | Water disinfection model<br>(Bromodichloromethane)                                 | 35   | 16  | 78-44-4   | Carisoprodol   |      | 16  |
| 75-27-4   | Water disinfection model<br>(Bromodichloromethane)                                 | 35   | 16  | 78-59-1   | Isophorone   | 44   | 16  |
| 75-27-4   | Water disinfection model<br>(Bromodichloromethane)                                 | 35   | 16  | 78-79-5   | Isoprene   | 38   | 16  |
| 75-27-4   | Water disinfection model<br>(Bromodichloromethane)                                 | 35   | 16  | 78-79-5   | Isoprene   | 44   | 16  |
| 75-27-4   | Water disinfection model<br>(Bromodichloromethane)                                 | 35   | 16  | 78-79-5   | Isoprene   |      | 16  |
| 75-27-4   | Water disinfection model<br>(Bromodichloromethane)                                 | 35   | 16  | 78-84-2   | Isobutyraldehyde   | 38   | 16  |
| 75-27-4   | Water disinfection model<br>(Bromodichloromethane)                                 | 35   | 16  | 78-84-2   | Isobutyraldehyde   | 44   | 16  |
| 75-27-4   | Water disinfection model<br>(Bromodichloromethane)                                 | 35   | 16  | 78-87-5   | 1,2-Dichloropropane (propylene<br>dichloride)  | 42   | 16  |
| @ 75-34-3   | Chemical mixture - drinking water<br>contaminants<br>(Primary CASRN is CHEMMIXH20) | 36   | 16  | @ 78-87-5   | Pesticide/fertilizer<br>contamination--mixture 2<br>(Primary CASRN is<br>PESTFERTMIX2) | 38   | 16  |
| 75-34-3   | 1,1-Dichloroethane   | 42   | 16  | 78-88-6   | 2,3-Dichloropropylene  | 52   | *   |
| @ 75-35-4   | Chemical mixture - drinking water<br>contaminants<br>(Primary CASRN is CHEMMIXH20) | 36   | 16  | 78-94-4   | Methyl vinyl ketone  | 53   | *   |
| 75-35-4   | Vinylidene Chloride  | 48   | 16  | 79-00-5   | 1,1,2-Trichloroethane  | 48   | 16  |
| 75-35-4   | Vinylidene Chloride  | 48   | 16  | @ 79-01-6   | Chemical mixture - drinking water<br>contaminants<br>(Primary CASRN is CHEMMIXH20)     | 36   | 16  |
| 75-38-7   | Vinylidene fluoride  | 56   | *   | 79-01-6   | Trichloroethylene  | 48   | 16  |
| 75-47-8   | Iodoform   | 44   | 16  | 79-01-6   | Trichloroethylene  | 48   | 16  |
| 75-52-5   | Fish Project 1 (Nitromethane)  | 43   | 16  | 79-01-6   | Trichloroethylene  | 48   | 16  |
| 75-52-5   | Fish Project 1 (Nitromethane)  | 43   | 16  | 79-01-6   | Trichloroethylene  | 48   | 16  |
| 75-52-5   | Nitromethane   | 45   | 16  | 79-01-6   | Trichloroethylene  | 56   | *   |
| 75-56-9   | 1,2-Propylene oxide  | 46   | 16  | 79-01-6   | Trichloroethylene  | 56   | *   |
| 75-65-0   | tert-Butyl alcohol   | 40   | 16  | 79-06-1   | Acrylamide   | 32   | 5   |
| 75-65-0   | tert-Butyl alcohol   | 36   | 16  | 79-06-1   | Acrylamide   | 39   | 16  |
| 75-69-4   | Trichlorofluoromethane   | 48   | 16  | 79-06-1   | Acrylamide   | 50   | *   |
| 75-91-2   | tert-Butyl hydroperoxide   | 51   | *   | 79-11-8   | Monochloroacetic acid  | 45   | 16  |
| 75-91-2   | tert-Butyl hydroperoxide   | 51   | *   | 79-27-6   | Halogenated ethanes CS<br>(1,1,2,2-Tetrabromoethane)                                   | 37   | 16  |
| 75-95-6   | Halogenated ethanes CS<br>(Pentabromoethane)                                       | 37   | 16  | 79-34-5   | Halogenated ethanes CS<br>(1,1,2,2-Tetrachloroethane)                                  | 37   | 16  |
| 76-01-7   | Halogenated ethanes CS<br>(Pentachloroethane)                                      | 37   | 16  | 79-34-5   | 1,1,2,2-Tetrachloroethane  | 47   | 16  |
| 76-01-7   | Pentachloroethane  | 46   | 16  | 79-34-5   | 1,1,2,2-Tetrachloroethane  | 38   | 16  |
| 76-06-2   | Chloropicrin   | 41   | 16  | 79-34-5   | 1,1,2,2-Tetrachloroethane  | 54   | *   |
| 76-12-0   | Halogenated ethanes CS (1,2-<br>Difluoro-1,1,2,2-<br>tetrachloroethane)            | 37   | 16  | 79-34-5   | 1,1,2,2-Tetrachloroethane  | 39   | 16  |
| 76-22-2   | DL-Camphor   | 51   | *   | 79-43-6   | Water disinfection byproducts<br>(Dichloroacetic acid)                                 | 56   | *   |
| 76-44-8   | Heptachlor   | 44   | 16  | 79-43-6   | Water disinfection model<br>(Dichloroacetic acid)                                      | 35   | 16  |
| 76-57-3   | Codeine  | 36   | 16  | 79-43-6   | Water disinfection model<br>(Dichloroacetic acid)                                      | 35   | 16  |
| 76-57-3   | Codeine  | 42   | 16  | 79-43-6   | Water disinfection model<br>(Dichloroacetic acid)                                      | 35   | 16  |
| 76-87-9   | Triphenyltin hydroxide   | 48   | 16  | 79-44-7   | Dimethylcarbamoyl chloride   | 49   | 17  |
| 77-09-8   | Phenolphthalein  | 38   | 16  | 79-81-2   | All-trans-retinyl palmitate  | 47   | 16  |
| 77-09-8   | Phenolphthalein  | 46   | 16  | 79-94-7   | Tetrabromobisphenol A  | 54   | *   |
| 77-09-8   | Transgenic model evaluation II<br>(Phenolphthalein)                                | 35   | 16  | 79-94-7   | Tetrabromobisphenol A  | 33   | 5   |
| 77-09-8   | Transgenic model evaluation<br>(Phenolphthalein)                                   | 55   | *   |   |  |      |     |

@ Denotes multiple CASRNs for study -- see following line for primary CASRN

\* See Appendix, Short-Term Studies for Which Toxicity Technical Reports Were Not Prepared

| Index of Chemicals by Chemical Abstracts Service<br>Registry Number (CASRN) with Reference Location |  |      |     | Index of Chemicals by Chemical Abstracts Service<br>Registry Number (CASRN) with Reference Location |   |      |     |
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| CASRN   | CHEMICAL NAME  | PAGE | REF | CASRN   | CHEMICAL NAME   | PAGE | REF |
| 79-94-7   | Tetrabromobisphenol A  | 47   | 16  | 88-72-2   | o-Nitrotoluene  | 38   | 16  |
| 80-05-7   | Bisphenol A  | 35   | 14  | 88-72-2   | o-Nitrotoluene  | 45   | 16  |
| 80-05-7   | Bisphenol A  | 36   | 16  | 88-73-3   | 2-Chloronitrobenzene  | 36   | 16  |
| 80-05-7   | Bisphenol A  | 36   | 16  | 88-96-0   | Phthalamide   | 46   | 16  |
| 80-05-7   | Bisphenol A  | 40   | 16  | 89-25-8   | 1-Phenyl-3-methyl-5-pyrazolone  | 46   | 16  |
| 80-07-9   | p,p'-Dichlorodiphenyl sulfone  |      | 16  | 89-63-4   | 4-Chloro-2-nitroaniline   | 51   | *   |
| 80-07-9   | p,p'-Dichlorodiphenyl sulfone  | 42   | 16  | @ 89-78-1   | DL-menthol<br>(Primary CASRN is 15356-70-4)   | 44   | 16  |
| 80-08-0   | 4,4'-Sulfonyldianiline (Dapsone)   | 47   | 16  |   |   |      |     |
| 80-09-1   | Bisphenol S  | 51   | *   | 89-82-7   | Pulegone  | 33   | 5   |
| 80-15-9   | Cumene hydroperoxide   | 52   | *   | 89-82-7   | Pulegone  | 46   | 16  |
| 80-56-8   | alpha-Pinene   | 36   | 16  | 90-43-7   | o-Phenylphenol  | 46   | 16  |
| 80-56-8   | alpha-Pinene   | 33   | 7   | 90-94-8   | Michler's ketone  | 45   | 16  |
| 80-62-6   | Methyl methacrylate  | 45   | 16  | 91-17-8   | Decalin   | 42   | 16  |
| 81-49-2   | 1-Amino-2,4-dibromoanthraquinone   | 39   | 16  | 91-20-3   | Naphthalene   | 45   | 16  |
| 82-28-0   | 1-Amino-2-methylanthraquinone  | 39   | 16  | 91-20-3   | Naphthalene   | 45   | 16  |
| 82-68-8   | Pentachloronitrobenzene  | 46   | 16  | 91-23-6   | o-Nitroanisole  |      | 16  |
| 82-68-8   | Pentachloronitrobenzene  | 46   | 16  | 91-23-6   | o-Nitroanisole  | 45   | 16  |
| 83-79-4   | Rotenone   | 50   | 17  | 91-53-2   | Ethoxyquin  | 52   | *   |
| 83-79-4   | Rotenone   | 47   | 16  | 91-64-5   | Coumarin  | 36   | 16  |
| 83-79-4   | Transgenic model evaluation<br>(Rotenone)                                      | 55   | *   | 91-64-5   | Coumarin  | 42   | 16  |
| 83-79-4   | Transgenic model evaluation<br>(Rotenone)                                      | 55   | *   | 91-64-5   | Coumarin  | 32   | 5   |
| 84-65-1   | Anthraquinone  | 40   | 16  | 91-84-9   | Pyrimidine  | 46   | 16  |
| 84-66-2   | Diethyl phthalate  | 42   | 16  | 91-93-0   | 3,3'-Dimethoxybenzidine-4,4'-<br>diisocyanate   | 43   | 16  |
| @ 84-66-2   | Diethyl phthalate/dimethyl<br>phthalate<br>(Primary CASRN is DIETH/<br>DIMETH) | 42   | 16  | 92-36-4   | 4-(6-Methyl-2-benzothiazolyl)-<br>benzenamine   | 53   | *   |
| 84-74-2   | Dibutyl Phthalate  | 42   | 16  | 92-48-8   | Methyl coumarin   | 53   | *   |
| 84-74-2   | Dibutyl Phthalate  | 37   | 16  | 93-15-2   | Methyleugenol   | 33   | 5   |
| 84-74-2   | Dibutyl Phthalate  | 37   | 16  | 93-15-2   | Methyleugenol   | 38   | 16  |
| 84-74-2   | Peroxisome project (Dibutyl<br>phthalate)                                      | 53   | *   | 93-15-2   | Methyleugenol   | 45   | 16  |
| 85-44-9   | Phthalic anhydride   | 46   | 16  | 93-15-2   | Methyleugenol (TGMX rat liver<br>evaluation)  | 53   | *   |
| 85-68-7   | Butyl benzyl phthalate   | 41   | 16  | @ 93-15-2   | Toxicogenomics study of<br>allylbenzene & propenylbenzene<br>class flavor constituents (TGMX)<br>(Primary CASRN is<br>TGMXFLAVCLAS) | 54   | *   |
| 85-68-7   | Butyl benzyl phthalate   | 36   | 16  | 93-83-4   | Oleic acid diethanolamine<br>condensate   | 46   | 16  |
| 85-68-7   | Butyl benzyl phthalate   | 41   | 16  | 93-83-4   | Transgenic LECM (Oleic acid<br>diethanolamine condensate)   | 55   | *   |
| 86-30-6   | N-Nitrosodiphenylamine   | 45   | 16  | 93-83-4   | Transgenic LECM (Oleic acid<br>diethanolamine condensate)   | 55   | *   |
| 86-50-0   | Azinphosmethyl   | 40   | 16  | 94-13-3   | Propyl-4-hydroxybenzoate  | 32   | 2   |
| 86-57-7   | 1-Nitronaphthalene   | 45   | 16  | 94-20-2   | Chlorpropamide  | 41   | 16  |
| 87-29-6   | Cinnamyl anthranilate  | 41   | 16  | @ 94-36-0   | Init/prom comparative mouse study<br>(DMBA/TPA/BPO/MNNG)<br>(Primary CASRN is INIT/PROM)  | 44   | 16  |
| 87-62-7   | 2,6-Xylidine   | 48   | 16  |   |   |      |     |
| 87-66-1   | Pyrogallol   | 46   | 16  | @ 94-36-0   | Init/prom comparative mouse study<br>(DMBA/TPA/BPO/MNNG)<br>(Primary CASRN is INIT/PROM)  | 44   | 16  |
| 87-68-3   | Hexachloro-1,3-butadiene   | 37   | 16  |   |   |      |     |
| 87-86-5   | Pentachlorophenol, Dowicide EC-7   | 46   | 16  | @ 94-36-0   | Init/prom comparative mouse study<br>(DMBA/TPA/BPO/MNNG)<br>(Primary CASRN is INIT/PROM)  | 44   | 16  |
| 87-86-5   | Pentachlorophenol, DP-2  | 38   | 16  |   |   |      |     |
| 87-86-5   | Pentachlorophenol, purified  | 38   | 16  | @ 94-36-0   | Init/prom comparative mouse study<br>(DMBA/TPA/BPO/MNNG)<br>(Primary CASRN is INIT/PROM)  | 44   | 16  |
| 87-86-5   | Pentachlorophenol, purified  | 46   | 16  |   |   |      |     |
| 87-86-5   | Pentachlorophenol, technical   | 46   | 16  | @ 94-36-0   | Init/prom comparative mouse study<br>(DMBA/TPA/BPO/MNNG)<br>(Primary CASRN is INIT/PROM)  | 44   | 16  |
| 87-86-5   | Transgenic LECM<br>(Pentachlorophenol)   | 55   | *   | 94-52-0   | 6-Nitrobenzimidazole  | 45   | 16  |
| 87-86-5   | Transgenic LECM<br>(Pentachlorophenol)   | 55   | *   | @ 94-59-7   | Toxicogenomics study of<br>allylbenzene & propenylbenzene<br>class flavor constituents (TGMX)<br>(Primary CASRN is<br>TGMXFLAVCLAS) | 54   | *   |
| 88-06-2   | 2,4,6-Trichlorophenol  | 48   | 16  |   |   |      |     |
| 88-72-2   | o-Nitrotoluene   | 38   | 16  |   |   |      |     |

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| Index of Chemicals by Chemical Abstracts Service<br>Registry Number (CASRN) with Reference Location |   |      |     | Index of Chemicals by Chemical Abstracts Service<br>Registry Number (CASRN) with Reference Location |   |      |     |
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| CASRN   | CHEMICAL NAME   | PAGE | REF | CASRN   | CHEMICAL NAME   | PAGE | REF |
| @ 94-60-0   | Crude MCHM<br>(Primary CASRN is CRUDEMCHM)  | 52   | *   | 98-01-1   | Furfural  | 43   | 16  |
| 94-75-7   | Peroxisome project<br>(2,4-Dichlorophenoxyacetic acid)  | 53   | *   | 98-29-3   | p-tert-Butylcatechol  | 36   | 16  |
| 95-06-7   | Sulfallate  | 47   | 16  | 98-29-3   | p-tert-Butylcatechol  | 36   | 16  |
| 95-14-7   | 1,2,3-Benzotriazole   | 40   | 16  | 98-56-6   | p-Chloro-a,a,a-trifluorotoluene   | 34   | 12  |
| 95-48-7   | o-Cresol  | 36   | 16  | 98-56-6   | p-Chloro-a,a,a-trifluorotoluene   | 41   | 16  |
| 95-50-1   | 1,2-Dichlorobenzene<br>(o-dichlorobenzene)  | 42   | 16  | 98-56-6   | p-Chloro-a,a,a-trifluorotoluene   | 36   | 16  |
| 95-51-2   | o-Chloroaniline   | 36   | 16  | 98-82-8   | Cumene  | 52   | *   |
| 95-63-6   | 1,2,4-trimethylbenzene  | 33   | 5   | 98-82-8   | Cumene  | 42   | 16  |
| 95-74-9   | 3-Chloro-p-toluidine  | 41   | 16  | 98-83-9   | alpha-Methylstyrene   | 53   | *   |
| 95-79-4   | 5-Chloro-o-toluidine  | 41   | 16  | 98-83-9   | alpha-Methylstyrene   | 45   | 16  |
| 95-80-7   | 2,4-Diaminotoluene (2,4-toluene<br>diamine)   | 42   | 16  | 98-85-1   | alpha-Methylbenzyl alcohol  | 45   | 16  |
| 95-80-7   | Transgenic model evaluation<br>(2,4-Diaminotoluene)   | 55   | *   | 98-95-3   | Nitrobenzene  | 53   | *   |
| 95-80-7   | Transgenic model evaluation<br>(2,4-Diaminotoluene)   | 55   | *   | @ 98-96-4   | AZT + Pyrazinamide combination<br>(AIDS Initiative)<br>(Primary CASRN is AZTZINAMIDE) | 36   | 16  |
| 95-83-0   | 4-Chloro-o-phenylenediamine   | 41   | 16  | 98-96-4   | Pyrazinamide  | 46   | 16  |
| 95-94-3   | 1,2,4,5-Tetrachlorobenzene  | 38   | 16  | 99-08-1   | m-Nitrotoluene  | 38   | 16  |
| 96-09-3   | Styrene oxide   | 50   | 17  | 99-55-8   | 5-Nitro-o-toluidine   | 46   | 16  |
| 96-12-8   | 1,2-Dibromo-3-chloropropane   | 42   | 16  | 99-56-9   | 4-Nitro-o-phenylenediamine  | 45   | 16  |
| 96-12-8   | 1,2-Dibromo-3-chloropropane   | 42   | 16  | 99-57-0   | 2-Amino-4-nitrophenol   | 39   | 16  |
| @ 96-12-8   | Pesticide/fertilizer<br>contamination--mixture 2<br>(Primary CASRN is<br>PESTFERTMIX2)  | 38   | 16  | 99-59-2   | 5-Nitro-o-anisidine   | 45   | 16  |
| 96-13-9   | 2,3-Dibromo-1-propanol  | 42   | 16  | 99-97-8   | N,N-Dimethyl-p-toluidine  | 52   | *   |
| 96-18-4   | Fish project 1<br>(1,2,3-Trichloropropane)  | 43   | 16  | 99-97-8   | N,N-Dimethyl-p-toluidine  | 52   | *   |
| 96-18-4   | Fish project 1<br>(1,2,3-Trichloropropane)  | 43   | 16  | 99-97-8   | N,N-Dimethyl-p-toluidine  | 43   | 16  |
| 96-18-4   | 1,2,3-Trichloropropane  | 56   | *   | 99-99-0   | p-Nitrotoluene  | 53   | *   |
| 96-18-4   | 1,2,3-Trichloropropane  | 48   | 16  | 99-99-0   | p-Nitrotoluene  | 38   | 16  |
| 96-29-7   | Methyl ethyl ketoxime   | 38   | 16  | 99-99-0   | p-Nitrotoluene  | 46   | 16  |
| 96-45-7   | Ethylene thiourea (ETU)   | 43   | 16  | 100-00-5  | 4-Chloronitrobenzene  | 36   | 16  |
| 96-48-0   | gamma-Butyrolactone   | 41   | 16  | 100-01-6  | p-Nitroaniline  |      | 16  |
| 96-69-5   | 4,4-Thiobis(6-tert-butyl-m-<br>cresol)  | 54   | *   | 100-01-6  | p-Nitroaniline  | 45   | 16  |
| 96-69-5   | 4,4-Thiobis(6-tert-butyl-m-<br>cresol)  | 47   | 16  | 100-02-7  | p-Nitrophenol   | 45   | 16  |
| 97-52-9   | 2-Methoxy-4-nitroaniline  | 53   | *   | 100-40-3  | 4-Vinylcyclohexene  | 48   | 16  |
| 97-53-0   | Eugenol   | 43   | 16  | @ 100-41-4  | Chemical mixture - drinking water<br>contaminants<br>(Primary CASRN is CHEMMIXH20)    | 36   | 16  |
| @ 97-53-0   | Toxicogenomics study of<br>allylbenzene & propenylbenzene<br>class flavor constituents (TGMX)<br>(Primary CASRN is<br>TGMXFLAVCLAS) | 54   | *   | 100-41-4  | Ethylbenzene  | 37   | 16  |
| 97-54-1   | Isoeugenol  | 44   | 16  | 100-41-4  | Ethylbenzene  | 43   | 16  |
| @ 97-54-1   | Toxicogenomics study of<br>allylbenzene & propenylbenzene<br>class flavor constituents (TGMX)<br>(Primary CASRN is<br>TGMXFLAVCLAS) | 54   | *   | 100-42-5  | Styrene   | 47   | 16  |
| 97-77-8   | Tetraethylthiuram disulfide   | 47   | 16  | 100-42-5  | Styrene   | 54   | *   |
| 98-00-0   | Furfuryl alcohol  | 37   | 16  | 100-44-7  | Benzyl chloride   | 49   | 17  |
| 98-00-0   | Furfuryl alcohol  | 43   | 16  | 100-47-0  | Benzonitrile  | 51   | *   |
| 98-00-0   | Transgenic LECM (Furfuryl<br>alcohol)   | 54   | *   | 100-51-6  | Benzyl alcohol  | 40   | 16  |
|   |   |      |     | 100-52-7  | Benzaldehyde  | 40   | 16  |
|   |   |      |     | 100-64-1  | Cyclohexanone oxime   | 36   | 16  |
|   |   |      |     | 101-05-3  | Anilazine   | 40   | 16  |
|   |   |      |     | 101-20-2  | Triclocarban  | 32   | 2   |
|   |   |      |     | 101-54-2  | N-Phenyl-p-phenylenediamine   | 46   | 16  |
|   |   |      |     | 101-61-1  | 4,4'-Methylenebis(N,N-<br>dimethyl)benzenamine  | 45   | 16  |
|   |   |      |     | 101-80-4  | 4,4'-Oxydianiline   | 46   | 16  |
|   |   |      |     | 101-90-6  | Diglycidyl resorcinol ether<br>(DGRE)   | 42   | 16  |
|   |   |      |     | 102-06-7  | 1,3-Diphenylguanidine   |      | 16  |
|   |   |      |     | 102-50-1  | m-Cresidine   | 42   | 16  |
|   |   |      |     | 102-54-5  | Ferrocene   | 52   | *   |

@ Denotes multiple CASRNs for study -- see following line for primary CASRN

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| 102-71-6  | Triethanolamine   | 56   | *   | 107-06-2  | 1,2-Dichloroethane   |      | 16  |
| 102-71-6  | Triethanolamine   | 56   | *   | 107-07-3  | 2-Chloroethanol (ethylene chlorohydrin)  | 41   | 16  |
| 102-71-6  | Triethanolamine   | 56   | *   | 107-13-1  | Acrylonitrile  | 39   | 16  |
| 102-71-6  | Triethanolamine   | 48   | 16  | 107-18-6  | Allyl alcohol  | 36   | 16  |
| 102-71-6  | Triethanolamine   | 48   | 16  | 107-19-7  | Propargyl alcohol  | 46   | 16  |
| 102-96-5  | beta-Nitrostyrene   | 45   | 16  | 107-21-1  | Ethylene glycol  | 43   | 16  |
| 103-23-1  | Di(2-ethylhexyl)adipate   | 42   | 16  | 107-22-2  | Glyoxal  | 52   | *   |
| 103-33-3  | Azobenzene  | 40   | 16  | 107-30-2  | Chloromethyl methyl ether  | 49   | 17  |
| 103-85-5  | 1-Phenyl-2-thiourea   | 46   | 16  | 108-10-1  | Methyl isobutyl ketone   | 45   | 16  |
| 103-90-2  | Acetaminophen<br>(4-hydroxyacetanilide)   | 32   | 2   | 108-30-5  | Succinic anhydride   | 47   | 16  |
| 103-90-2  | Acetaminophen<br>(4-hydroxyacetanilide)   | 39   | 16  | 108-39-4  | m-Cresol   | 36   | 16  |
| 103-90-2  | Acetaminophen<br>(4-hydroxyacetanilide)   | 50   | *   | 108-42-9  | m-Chloroaniline  | 36   | 16  |
| @ 104-46-1  | Toxicogenomics study of<br>allylbenzene & propenylbenzene<br>class flavor constituents (TGMX)<br>(Primary CASRN is<br>TGMXFLAVCLAS) | 54   | *   | 108-46-3  | Resorcinol   | 47   | 16  |
| 104-55-2  | Cinnamaldehyde  | 51   | *   | 108-46-3  | Transgenic LEP (Resorcinol)  | 55   | *   |
| @ 105-08-8  | Crude MCHM<br>(Primary CASRN is CRUDEMCHM)  | 52   | *   | 108-46-3  | Transgenic model evaluation<br>(Resorcinol)  | 55   | *   |
| 105-11-3  | p-Benzoquinone dioxime  | 40   | 16  | 108-46-3  | Transgenic model evaluation<br>(Resorcinol)  | 55   | *   |
| 105-55-5  | N,N'-Diethylthiourea  | 42   | 16  | 108-60-1  | bis(2-Chloro-1-methylethyl) ether  | 40   | 16  |
| 105-60-2  | Caprolactam   | 41   | 16  | 108-60-1  | bis(2-Chloro-1-methylethyl) ether  | 40   | 16  |
| 105-87-3  | Geranyl acetate   | 43   | 16  | 108-78-1  | Melamine   | 44   | 16  |
| 106-44-5  | p-Cresol  | 36   | 16  | @ 108-78-1  | Melamine + Cyanuric Acid<br>combination<br>(Primary CASRN is MELCYANCOMB)          | 33   | 5   |
| 106-46-7  | 1,4-Dichlorobenzene<br>(p-dichlorobenzene)  | 42   | 16  | @ 108-78-1  | Melamine + Cyanuric Acid<br>combination<br>(Primary CASRN is MELCYANCOMB)          | 53   | *   |
| 106-47-8  | p-Chloroaniline   | 41   | 16  | @ 108-78-1  | Melamine + Cyanuric Acid<br>combination<br>(Primary CASRN is MELCYANCOMB)          | 33   | 5   |
| 106-49-0  | p-Toluidine   | 54   | *   | @ 108-78-1  | Melamine + Cyanuric Acid<br>combination<br>(Primary CASRN is MELCYANCOMB)          | 32   | 4   |
| 106-87-6  | 4-Vinyl-1-cyclohexene diepoxide   | 48   | 16  | @ 108-80-5  | Melamine + Cyanuric Acid<br>combination<br>(Primary CASRN is MELCYANCOMB)          | 33   | 5   |
| 106-88-7  | 1,2-Epoxybutane   | 43   | 16  | @ 108-80-5  | Melamine + Cyanuric Acid<br>combination<br>(Primary CASRN is MELCYANCOMB)          | 53   | *   |
| 106-89-8  | Epichlorhydrin  | 49   | 17  | @ 108-80-5  | Melamine + Cyanuric Acid<br>combination<br>(Primary CASRN is MELCYANCOMB)          | 33   | 5   |
| 106-92-3  | Allyl glycidyl ether  | 39   | 16  | @ 108-80-5  | Melamine + Cyanuric Acid<br>combination<br>(Primary CASRN is MELCYANCOMB)          | 32   | 4   |
| 106-93-4  | 1,2-Dibromoethane   | 42   | 16  | @ 108-80-5  | Melamine + Cyanuric Acid<br>combination<br>(Primary CASRN is MELCYANCOMB)          | 32   | 4   |
| 106-93-4  | 1,2-Dibromoethane   | 42   | 16  | @ 108-86-1  | Bromobenzene   | 51   | *   |
| @ 106-93-4  | Pesticide/fertilizer<br>contamination--mixture 2<br>(Primary CASRN is<br>PESTFERTMIX2)  | 38   | 16  | 108-86-1  | Bromobenzene   | 51   | *   |
| 106-94-5  | 1-Bromopropane  | 40   | 16  | @ 108-88-3  | Chemical mixture - drinking water<br>contaminants<br>(Primary CASRN is CHEMMIXH2O) | 36   | 16  |
| 106-95-6  | Allyl bromide   | 35   | 16  | 108-88-3  | Toluene  | 48   | 16  |
| 106-95-6  | Allyl bromide   | 50   | *   | 108-88-3  | Toluene  | 39   | 16  |
| 106-95-6  | Allyl bromide   | 35   | 16  | @ 108-90-7  | Chemical mixture - drinking water<br>contaminants<br>(Primary CASRN is CHEMMIXH2O) | 36   | 16  |
| 106-99-0  | 1,3-Butadiene   | 40   | 16  | 108-90-7  | Chlorobenzene  | 41   | 16  |
| 106-99-0  | 1,3-Butadiene   | 51   | *   | 108-94-1  | Cyclohexanone  | 49   | 17  |
| 106-99-0  | 1,3-Butadiene   | 40   | 16  | @ 108-95-2  | Chemical mixture - drinking water<br>contaminants<br>(Primary CASRN is CHEMMIXH2O) | 36   | 16  |
| 106-99-0  | 1,3-Butadiene   | 49   | 17  |   |  |      |     |
| 107-02-8  | Acrolein  | 36   | 16  |   |  |      |     |
| 107-05-1  | Allyl chloride  | 39   | 16  |   |  |      |     |
| @ 107-06-2  | Chemical mixture - drinking water<br>contaminants<br>(Primary CASRN is CHEMMIXH2O)  | 36   | 16  |   |  |      |     |
| 107-06-2  | 1,2-Dichloroethane  | 42   | 16  |   |  |      |     |
| 107-06-2  | 1,2-Dichloroethane  | 37   | 16  |   |  |      |     |
| 107-06-2  | 1,2-Dichloroethane  |      | 16  |   |  |      |     |

@ Denotes multiple CASRNs for study -- see following line for primary CASRN

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| 108-99-6 | beta-Picoline                                     | 46   | 16  |
| 109-09-1 | o-Chloropyridine                                  | 51   | *   |
| 109-09-1 | o-Chloropyridine                                  | 36   | 16  |
| 109-69-3 | n-Butyl chloride                                  | 41   | 16  |
| 109-86-4 | Ethylene Glycol Monomethyl Ether (EGMME)          | 37   | 16  |
| 109-86-4 | Ethylene Glycol Monomethyl Ether (EGMME)          | 37   | 16  |
| 109-89-7 | Diethylamine                                      | 42   | 16  |
| 109-99-9 | Tetrahydrofuran                                   | 54   | *   |
| 109-99-9 | Tetrahydrofuran                                   | 39   | 16  |
| 109-99-9 | Tetrahydrofuran                                   | 47   | 16  |
| 110-00-9 | Furan   | 35   | 14  |
| 110-00-9 | Furan   | 32   | 5   |
| 110-00-9 | Furan   | 43   | 16  |
| 110-02-1 | Thiophene   | 54   | *   |
| 110-54-3 | n-Hexane  | 37   | 16  |
| 110-63-4 | 1,4-Butanediol                                    |      | 16  |
| 110-69-0 | Butanal oxime                                     | 36   | 16  |
| 110-80-5 | Ethylene glycol monoethyl ether (EGMEE)           | 37   | 16  |
| 110-80-5 | Ethylene glycol monoethyl ether (EGMEE)           | 37   | 16  |
| 110-86-1 | Pyridine  | 54   | *   |
| 110-86-1 | Pyridine  | 46   | 16  |
| 110-86-1 | Pyridine  | 46   | 16  |
| 110-86-1 | Transgenic LECM (Pyridine)                        | 55   | *   |
| 110-86-1 | Transgenic LECM (Pyridine)                        | 55   | *   |
| 111-30-8 | Glutaraldehyde                                    | 37   | 16  |
| 111-30-8 | Glutaraldehyde                                    | 44   | 16  |
| 111-42-2 | Diethanolamine                                    | 37   | 16  |
| 111-42-2 | Diethanolamine                                    | 37   | 16  |
| 111-42-2 | Diethanolamine                                    | 42   | 16  |
| 111-42-2 | Transgenic LECM (diethanolamine)                  | 56   | *   |
| 111-76-2 | 2-Butoxyethanol (ethylene glycol monobutyl ether) | 36   | 16  |
| 111-76-2 | 2-Butoxyethanol (ethylene glycol monobutyl ether) | 36   | 16  |
| 111-76-2 | 2-Butoxyethanol (ethylene glycol monobutyl ether) | 40   | 16  |
| 111-91-1 | bis(2-Chloroethoxy)methane                        | 41   | 16  |
| 111-91-1 | bis(2-Chloroethoxy)methane                        | 51   | *   |
| 111-91-1 | bis(2-Chloroethoxy)methane                        | 51   | *   |
| 113-92-8 | Chlorpheniramine maleate                          | 41   | 16  |
| 115-07-1 | Propylene   | 46   | 16  |
| 115-11-7 | Isobutene   | 44   | 16  |
| 115-28-6 | Chlorendic acid                                   | 41   | 16  |
| 115-29-7 | Endosulfan  | 43   | 16  |
| 115-32-2 | Dicofol   | 42   | 16  |
| 115-86-6 | Triphenyl Phosphate                               | 56   | *   |
| 115-86-6 | Triphenyl Phosphate                               | 33   | 5   |
| 115-96-8 | Tris(2-Chloroethyl) Phosphate                     | 48   | 16  |
| 116-06-3 | Aldicarb  | 39   | 16  |

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| @ 116-06-3 | Pesticide/fertilizer contamination--mixture 2 (Primary CASRN is PESTFERTMIX2)   | 38   | 16  |
| 116-14-3   | Tetrafluoroethylene   | 39   | 16  |
| 116-14-3   | Tetrafluoroethylene   | 47   | 16  |
| 117-08-8   | Tetrachlorophthalic anhydride   | 39   | 16  |
| 117-39-5   | Quercetin   | 46   | 16  |
| 117-79-3   | 2-Aminoanthraquinone  | 39   | 16  |
| @ 117-81-7 | Chemical mixture - drinking water contaminants (Primary CASRN is CHEMMIXH20)  | 36   | 16  |
| 117-81-7   | Di(2-ethylhexyl) Phthalate  | 34   | 10  |
| 117-81-7   | Di(2-ethylhexyl) Phthalate  | 42   | 16  |
| 117-81-7   | Di(2-ethylhexyl) Phthalate  | 52   | *   |
| 117-81-7   | Di(2-ethylhexyl) Phthalate  | 32   | 5   |
| 117-81-7   | Di(2-ethylhexyl) Phthalate  | 52   | *   |
| 117-81-7   | Di(2-ethylhexyl) Phthalate  | 42   | 16  |
| 117-81-7   | Transgenic model evaluation (Di(2-ethylhexyl) phthalate)  | 55   | *   |
| 117-81-7   | Transgenic model evaluation (Di(2-ethylhexyl) phthalate)  | 55   | *   |
| 118-74-1   | Hexachlorobenzene   | 32   | 5   |
| 118-74-1   | Hexachlorobenzene   | 34   | 14  |
| 118-92-3   | o-Anthranilic acid  | 40   | 16  |
| 119-34-6   | 4-Amino-2-nitrophenol   | 39   | 16  |
| 119-53-9   | Benzoin   | 40   | 16  |
| 119-61-9   | Benzophenone  | 36   | 16  |
| 119-61-9   | Benzophenone  | 40   | 16  |
| 119-64-2   | Tetralin  | 47   | 16  |
| 119-84-6   | 3,4-Dihydrocoumarin   | 37   | 16  |
| 119-84-6   | 3,4-Dihydrocoumarin   | 42   | 16  |
| 120-32-1   | o-Benzyl-p-chlorophenol   | 36   | 16  |
| 120-32-1   | o-Benzyl-p-chlorophenol   | 40   | 16  |
| 120-32-1   | o-Benzyl-p-chlorophenol   | 40   | 16  |
| 120-40-1   | Lauric acid diethanolamine condensate   | 44   | 16  |
| 120-40-1   | Transgenic LECM (Lauric acid diethanolamine condensate)   | 54   | *   |
| 120-40-1   | Transgenic LECM (Lauric acid diethanolamine condensate)   | 54   | *   |
| @ 120-58-1 | Toxicogenomics study of allylbenzene & propenylbenzene class flavor constituents (TGMX) (Primary CASRN is TGMXFLAVCLAS) | 54   | *   |
| 120-61-6   | Dimethyl terephthalate  | 43   | 16  |
| 120-62-7   | Piperonyl sulfoxide   | 46   | 16  |
| 120-71-8   | p-Cresidine   | 42   | 16  |
| 120-71-8   | p-Cresidine   | 51   | *   |
| 120-71-8   | Transgenic LEP (p-Cresidine)  | 55   | *   |
| 120-83-2   | 2,4-Dichlorophenol  | 42   | 16  |
| 121-14-2   | 2,4-Dinitrotoluene  | 43   | 16  |
| 121-19-7   | Roxarsone   | 47   | 16  |
| 121-44-8   | Triethylamine   |      | 16  |
| 121-54-0   | Benzethonium chloride   | 36   | 16  |
| 121-54-0   | Benzethonium chloride   | 40   | 16  |
| 121-66-4   | 2-Amino-5-nitrothiazole   | 39   | 16  |

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| 121-69-7  | N,N-Dimethylaniline  | 43   | 16  | 130-17-6  | 2-(4-Aminophenyl)-6-methyl-7-benzothiazole sulfonic acid   | 51   | *   |
| 121-75-5  | Malathion  | 44   | 16  |   |  |      |     |
| 121-75-5  | Malathion  | 44   | 16  | @ 131-11-3  | Diethyl phthalate/dimethyl phthalate<br>(Primary CASRN is DIETH/DIMETH)  | 42   | 16  |
| 121-79-9  | Propyl gallate   | 46   | 16  |   |  |      |     |
| 121-88-0  | 2-Amino-5-nitrophenol  | 39   | 16  |   |  |      |     |
| 121-92-6  | m-Nitrobenzoic acid  | 53   | *   | 131-17-9  | Diallyl phthalate  | 42   | 16  |
| @ 122-34-9  | Pesticide/fertilizer contamination--mixture 2<br>(Primary CASRN is PESTFERTMIX2) | 38   | 16  | 131-17-9  | Diallyl phthalate  | 42   | 16  |
|   |  |      |     | 131-57-7  | 2-Hydroxy-4-methoxybenzophenone  | 35   | 14  |
|   |  |      |     | 131-57-7  | 2-Hydroxy-4-methoxybenzophenone  | 37   | 16  |
| 122-34-9  | Simazine   | 54   | *   | 131-57-7  | 2-Hydroxy-4-methoxybenzophenone  | 37   | 16  |
| 122-66-7  | Hydrazobenzene   | 44   | 16  | 131-57-7  | 2-Hydroxy-4-methoxybenzophenone  | 37   | 16  |
| 123-31-9  | Hydroquinone   | 44   | 16  | 132-32-1  | 3-Amino-9-ethylcarbazole   | 49   | 17  |
| 123-35-3  | beta-Myrcene   | 45   | 16  | 132-98-9  | Penicillin VK  | 46   | 16  |
| 123-72-8  | Butyraldehyde  | 51   | *   | 133-06-2  | Captan   | 41   | 16  |
| 123-77-3  | Azodicarbonamide   | 51   | *   | 133-90-4  | Chloramben   | 41   | 16  |
| 123-91-1  | 1,4-Dioxane  | 43   | 16  | 134-29-2  | o-Anisidine hydrochloride  | 40   | 16  |
| 124-48-1  | Chlorodibromomethane   | 41   | 16  | 134-50-9  | 9-Aminoacridine hydrochloride  | 51   | *   |
| 124-64-1  | Tetrakis(hydroxymethyl)phosphonium chloride                                      | 47   | 16  | 134-50-9  | 9-Aminoacridine hydrochloride  | 51   | *   |
|   |  |      |     | 134-72-5  | Ephedrine sulfate  | 43   | 16  |
| 125-33-7  | Primidone (primaclone)   | 46   | 16  | 135-20-6  | Cupferron  | 42   | 16  |
| 126-33-0  | Sulfolane  | 33   | 6   | 135-23-9  | Methapyrilene hydrochloride  | 49   | 17  |
| 126-33-0  | Sulfolane  | 33   | 5   | 135-23-9  | Methapyrilene hydrochloride  | 53   | *   |
| 126-72-7  | tris(2,3-Dibromopropyl) phosphate  | 48   | 16  | 135-23-9  | Methapyrilene hydrochloride  | 38   | 16  |
| 126-98-7  | Methacrylonitrile  |      | 16  | 135-88-6  | N-Phenyl-2-naphthylamine   | 46   | 16  |
| 126-98-7  | Methacrylonitrile  | 45   | 16  | 136-35-6  | Diazoaminobenzene  | 36   | 16  |
| 126-99-8  | Chloroprene  | 36   | 16  | 136-40-3  | Phenazopyridine hydrochloride  | 46   | 16  |
| 126-99-8  | Chloroprene  | 41   | 16  | 136-45-8  | 2,5-Pyridinedicarboxylic Acid, Dipropyl Ester  | 54   | *   |
| 126-99-8  | Chloroprene  | 51   | *   |   |  |      |     |
| 126-99-8  | Chloroprene  | 51   | *   | 136-77-6  | 4-Hexylresorcinol  | 44   | 16  |
| 127-00-4  | 1-Chloro-2-propanol, technical   | 36   | 16  | 137-09-7  | 2,4-Diaminophenol dihydrochloride  | 42   | 16  |
| 127-00-4  | 1-Chloro-2-propanol, technical   | 51   | *   | 137-17-7  | 2,4,5-Trimethylaniline   | 48   | 16  |
| 127-00-4  | 1-Chloro-2-propanol, technical   | 41   | 16  | 137-30-4  | Ziram  | 49   | 16  |
| 127-00-4  | Transgenic LECM<br>(1-Chloro-2-propanol, technical)                              | 54   | *   | 139-13-9  | Nitrilotriacetic acid (NTA)  | 45   | 16  |
|   |  |      |     | 139-65-1  | 4,4'-Thiodianiline   | 47   | 16  |
| 127-00-4  | Transgenic LECM<br>(1-Chloro-2-propanol, technical)                              | 54   | *   | 139-94-6  | Nithiazide   | 45   | 16  |
|   |  |      |     | 140-11-4  | Benzyl acetate   | 40   | 16  |
| 127-07-1  | Hydroxyurea  | 49   | 17  | 140-11-4  | Benzyl acetate   | 40   | 16  |
| @ 127-18-4  | Chemical mixture - drinking water contaminants<br>(Primary CASRN is CHEMMIXH20)  | 36   | 16  | @ 140-11-4  | Benzyl acetate + glycine combination study<br>(Primary CASRN is GLYCINEBENZA)  | 51   | *   |
| 127-18-4  | Tetrachloroethylene  | 47   | 16  |   |  |      |     |
| 127-18-4  | Tetrachloroethylene  | 47   | 16  | 140-49-8  | 4-(Chloroacetyl)acetanilide  | 41   | 16  |
| @ 127-47-9  | Retinoid project 1<br>(Primary CASRN is RETINOID1)                               | 54   | *   | 140-56-7  | Formulated fenaminosulf  | 43   | 16  |
|   |  |      |     | 140-67-0  | Estragole  | 52   | *   |
| 127-47-9  | Retinoid project 3 (Retinol acetate)   | 54   | *   | 140-67-0  | Estragole  | 37   | 16  |
|   |  |      |     | @ 140-67-0  | Toxicogenomics study of allylbenzene & propenylbenzene class flavor constituents (TGMX)<br>(Primary CASRN is TGMXFLAVCLAS) | 54   | *   |
| 127-69-5  | Sulfisoxazole  | 47   | 16  |   |  |      |     |
| 128-37-0  | Butylated hydroxytoluene   | 40   | 16  | 140-88-5  | Ethyl acrylate   | 43   | 16  |
| 128-66-5  | C.I. Vat Yellow 4  | 41   | 16  | 142-04-1  | Aniline hydrochloride  | 40   | 16  |
| 129-15-7  | 2-Methyl-1-nitroanthraquinone  | 45   | 16  | 142-46-1  | 2,5-Dithiobiurea   | 43   | 16  |
| 129-15-7  | 2-Methyl-1-nitroanthraquinone  | 49   | 17  | 142-83-6  | 2,4-Hexadienal   | 37   | 16  |
| 129-73-7  | Leucomalachite green   | 44   | 16  | 142-83-6  | 2,4-Hexadienal   | 44   | 16  |
| 129-73-7  | Leucomalachite green   | 38   | 16  |   |  |      |     |
| 129-79-3  | 2,4,7-Trinitro-fluoren-9-one   | 39   | 16  | 142-83-6  | 2,4-Hexadienal   | 44   | 16  |
| 129-79-3  | 2,4,7-Trinitro-fluoren-9-one   | 39   | 16  | 143-33-9  | Sodium cyanide   |      | 16  |

@ Denotes multiple CASRNs for study -- see following line for primary CASRN

\* See Appendix, Short-Term Studies for Which Toxicity Technical Reports Were Not Prepared



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| CASRN   | CHEMICAL NAME  | PAGE | REF | CASRN   | CHEMICAL NAME   | PAGE | REF |
| 143-50-0  | Chlordecone  | 41   | 16  | @ 299-42-3  | Ephedrine + caffeine combination<br>(Primary CASRN is EPHEDCOMBO)                           | 52   | *   |
| 147-24-0  | Diphenhydramine hydrochloride  | 43   | 16  | @ 301-04-2  | Chemical mixture - drinking water<br>contaminants<br>(Primary CASRN is CHEMMIXH2O)          | 36   | 16  |
| 147-47-7  | 1,2-Dihydro-2,2,4-<br>trimethylquinoline (monomer)                                 | 37   | 16  | 301-04-2  | Lead(2+) acetate  | 52   | *   |
| 147-47-7  | 1,2-Dihydro-2,2,4-<br>trimethylquinoline (monomer)                                 | 42   | 16  | @ 301-04-2  | Lead contaminated soil<br>(Primary CASRN is<br>PBCONTAMSOIL)                                | 52   | *   |
| 147-47-7  | 1,2-Dihydro-2,2,4-<br>trimethylquinoline (monomer)                                 | 37   | 16  | 302-17-0  | Chloral hydrate   | 41   | 16  |
| 147-47-7  | 1,2-Dihydro-2,2,4-<br>trimethylquinoline (monomer)                                 | 43   | 16  | 302-17-0  | Chloral hydrate   | 36   | 16  |
| 147-94-4  | Cytarabine   | 49   | 17  | 302-17-0  | Chloral hydrate   | 41   | 16  |
| 148-18-5  | Sodium diethyldithiocarbamate  | 47   | 16  | 303-34-4  | Lasiocarpine  | 44   | 16  |
| 148-24-3  | 8-Hydroxyquinoline   | 44   | 16  | 303-47-9  | Ochratoxin A  | 46   | 16  |
| 148-24-3  | Transgenic model evaluation<br>(8-Hydroxyquinoline)                                | 55   | *   | 305-03-3  | Chlorambucil  | 49   | 17  |
| 148-24-3  | Transgenic model evaluation<br>(8-Hydroxyquinoline)                                | 55   | *   | 306-37-6  | 1,2-Dimethylhydrazine 2HCl  | 49   | 17  |
| 148-82-3  | Melphalan  | 49   | 17  | 307-24-4  | Perfluorohexanoic acid (PFHXA)  | 38   | 16  |
| 148-82-3  | Transgenic LEP (Melphalan)   | 55   | *   | 309-00-2  | Aldrin  | 39   | 16  |
| 148-82-3  | Transgenic model evaluation<br>(Melphalan)   | 55   | *   | 315-18-4  | Mexacarbate   | 45   | 16  |
| 148-82-3  | Transgenic model evaluation<br>(Melphalan)   | 55   | *   | 316-42-7  | Emetine hydrochloride   | 43   | 16  |
| 148-82-3  | Transgenic model evaluation<br>(Melphalan)   | 55   | *   | 320-67-2  | 5-Azacytidine   | 40   | 16  |
| 148-82-3  | Transgenic model evaluation<br>(Melphalan)   | 55   | *   | 333-41-5  | Diazinon  | 42   | 16  |
| 148-82-3  | Transgenic model evaluation<br>(Melphalan)   | 55   | *   | 335-67-1  | Perfluorooctanoic Acid  | 35   | 14  |
| 148-82-3  | Transgenic model evaluation<br>(Melphalan)   | 55   | *   | 335-67-1  | Perfluorooctanoic Acid  | 34   | 13  |
| 148-82-3  | Transgenic model evaluation<br>(Melphalan)   | 55   | *   | 335-67-1  | Perfluorooctanoic Acid  | 53   | *   |
| 148-82-3  | Transgenic model evaluation<br>(Melphalan)   | 55   | *   | 335-67-1  | Perfluorooctanoic Acid  | 38   | 16  |
| 149-30-4  | 2-Mercaptobenzothiazole  | 45   | 16  | 335-67-1  | Perfluorooctanoic Acid  | 33   | 5   |
| 150-38-9  | Trisodium<br>ethylenediaminetetraacetate<br>trihydrate (EDTA)                      | 48   | 16  | 335-76-2  | Perfluorodecanoic Acid  | 38   | 16  |
| 150-68-5  | Monuron  | 45   | 16  | 342-69-8  | 6-Methylmercaptapurine<br>ribonucleoside  | 49   | 17  |
| 154-69-8  | Tripelennamine hydrochloride   | 56   | *   | 354-58-5  | Halogenated ethanes CS (1,1,1-<br>Trichloro-2,2,2-trifluoroethane)                          | 37   | 16  |
| 154-93-8  | 1,3-bis(Chloroethyl)-1-<br>nitrosourea   | 49   | 17  | 366-70-1  | Procarbazine hydrochloride  | 50   | 17  |
| 156-10-5  | p-Nitrosodiphenylamine   | 45   | 16  | 366-70-1  | Procarbazine hydrochloride  | 46   | 16  |
| 156-59-2  | cis-1,2-Dichloroethylene   | 52   | *   | 367-51-1  | Sodium thioglycolate  | 38   | 16  |
| @ 156-60-5  | Chemical mixture - drinking water<br>contaminants<br>(Primary CASRN is CHEMMIXH2O) | 36   | 16  | 375-73-5  | Perfluorobutane sulfonate (PFBS)  | 38   | 16  |
| 156-60-5  | trans-1,2-Dichloroethylene   | 52   | *   | 375-95-1  | Perfluorononanoic Acid  | 38   | 16  |
| 156-60-5  | trans-1,2-Dichloroethylene   | 52   | *   | 389-08-2  | Nalidixic acid  | 45   | 16  |
| 156-60-5  | trans-1,2-Dichloroethylene   | 37   | 16  | 396-01-0  | Triamterene   | 56   | *   |
| 156-62-7  | Calcium cyanamide  | 41   | 16  | 396-01-0  | Triamterene   | 48   | 16  |
| 262-12-4  | Dibenzo-p-dioxin   | 42   | 16  | 431-03-8  | 2,3-Butanedione   | 35   | 14  |
| 271-89-6  | Benzofuran   | 40   | 16  | 434-07-1  | Oxymetholone  | 53   | *   |
| 286-20-4  | Cyclohexene oxide  | 52   | *   | 434-07-1  | Oxymetholone  | 46   | 16  |
| 286-20-4  | Cyclohexene oxide  | 52   | *   | 434-13-9  | Lithocholic acid  | 44   | 16  |
| 286-20-4  | Cyclohexene oxide  | 52   | *   | 446-72-0  | Endocrine disruptor (Genistein)   | 43   | 16  |
| 298-00-0  | Methyl parathion   | 45   | 16  | 446-86-6  | Azathioprine  | 49   | 17  |
| 298-59-9  | Methylphenidate hydrochloride  | 38   | 16  | 458-37-7  | Prevention 4 (Curcumin)   | 53   | *   |
| 298-59-9  | Methylphenidate hydrochloride  | 45   | 16  | @ 458-37-7  | Prevention 4 (Melatonin +<br>curcumin)<br>(Primary CASRN is<br>MEL+CURCUMIN)                | 54   | *   |
| 298-59-9  | Transgenic model evaluation<br>(Methylphenidate hydrochloride)                     | 55   | *   | 462-08-8  | 3-Aminopyridine   | 51   | *   |
| 298-81-7  | 8-Methoxypsoralen  | 45   | 16  | @ 462-08-8  | Comparison study of<br>Aminopyridines/Troponin levels<br>(Primary CASRN is<br>AMINOPYRCOMP) | 51   | *   |
| @ 299-42-3  | Ephedrine + caffeine combination<br>(Primary CASRN is EPHEDCOMBO)                  | 52   | *   | 469-21-6  | Doxylamine  | 43   | 16  |
|   |  |      |     | 470-82-6  | 1,8-Cineol  | 51   | *   |

@ Denotes multiple CASRNs for study -- see following line for primary CASRN

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| 470-82-6   | 1,8-Cineol  | 51   | *   |
| @ 471-15-8 | alpha/beta Thujone mixture<br>(Primary CASRN is 76231-76-0)                                 | 33   | 5   |
| @ 471-15-8 | alpha/beta Thujone mixture<br>(Primary CASRN is 76231-76-0)                                 | 39   | 16  |
| @ 471-15-8 | alpha/beta Thujone mixture<br>(Primary CASRN is 76231-76-0)                                 | 47   | 16  |
| 481-72-1   | Aloe-emodin   | 39   | 16  |
| 486-12-4   | Triprolidine  | 48   | 16  |
| 488-41-5   | Dibromomannitol   | 49   | 17  |
| 501-36-0   | Resveratrol   | 33   | 7   |
| 504-24-5   | 4-Aminopyridine   | 51   | *   |
| @ 504-24-5 | Comparison study of<br>Aminopyridines/Troponin levels<br>(Primary CASRN is<br>AMINOPYRCOMP) | 51   | *   |
| 504-29-0   | 2-Aminopyridine   | 51   | *   |
| @ 504-29-0 | Comparison study of<br>Aminopyridines/Troponin levels<br>(Primary CASRN is<br>AMINOPYRCOMP) | 51   | *   |
| 504-88-1   | 3-Nitropropionic acid   | 45   | 16  |
| 509-14-8   | Tetranitromethane   | 47   | 16  |
| 510-15-6   | Chlorobenzilate   | 41   | 16  |
| 512-56-1   | Trimethylphosphate  | 48   | 16  |
| 513-37-1   | Dimethylvinyl chloride (DMVC)   | 43   | 16  |
| 513-86-0   | Acetoin   | 34   | 14  |
| @ 514-78-3 | Retinoid project 1<br>(Primary CASRN is RETINOID1)  | 54   | *   |
| 518-82-1   | Emodin  | 43   | 16  |
| 528-74-5   | Dichloromethotrexate  | 49   | 17  |
| 531-76-0   | Merphalan   | 49   | 17  |
| 531-85-1   | Benzidine dihydrochloride   | 51   | *   |
| 532-27-4   | 2-Chloroacetophenone (CN)   | 41   | 16  |
| 536-33-4   | Ethionamide   | 43   | 16  |
| 538-23-8   | Tricaprylin   | 48   | 16  |
| 538-75-0   | Dicyclohexylcarbodiimide  | 35   | 16  |
| 538-75-0   | Dicyclohexylcarbodiimide  | 35   | 16  |
| 538-75-0   | Dicyclohexylcarbodiimide  | 35   | 16  |
| 540-59-0   | cis & trans 1,2-Dichloroethylene  | 52   | *   |
| 542-56-3   | Isobutyl nitrite  | 44   | 16  |
| 542-75-6   | 1,3-Dichloropropene (Telone II)   | 42   | 16  |
| 542-88-1   | bis(Chloromethyl) ether   | 49   | 17  |
| 546-80-5   | alpha-Thujone   | 39   | 16  |
| @ 546-80-5 | alpha/beta Thujone mixture<br>(Primary CASRN is 76231-76-0)                                 | 33   | 5   |
| @ 546-80-5 | alpha/beta Thujone mixture<br>(Primary CASRN is 76231-76-0)                                 | 39   | 16  |
| @ 546-80-5 | alpha/beta Thujone mixture<br>(Primary CASRN is 76231-76-0)                                 | 47   | 16  |
| 548-62-9   | Hexamethyl-p-rosaniline chloride  | 44   | 16  |
| 548-62-9   | Hexamethyl-p-rosaniline chloride  | 44   | 16  |
| 552-30-7   | Trimellitic anhydride   | 56   | *   |
| 552-30-7   | Trimellitic anhydride   | 56   | *   |
| 556-52-5   | Glycidol  | 44   | 16  |
| 556-52-5   | Transgenic model evaluation II<br>(Glycidol)  | 35   | 16  |
| 563-47-3   | 3-Chloro-2-methylpropene  | 41   | 16  |

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| 569-61-9   | C.I. Basic Red 9<br>Monohydrochloride   | 41   | 16  |
| 569-64-2   | Malachite green   | 44   | 16  |
| 569-64-2   | Malachite green   | 38   | 16  |
| 583-39-1   | 2-Mercaptobenzimidazole   | 53   | *   |
| 583-39-1   | 2-Mercaptobenzimidazole   | 53   | *   |
| 591-87-7   | Allyl acetate   | 36   | 16  |
| 597-25-1   | Dimethyl<br>morpholinophosphoramidate   | 43   | 16  |
| 598-55-0   | Methyl carbamate  | 45   | 16  |
| 599-79-1   | Salicylazosulfapyridine   | 38   | 16  |
| 599-79-1   | Salicylazosulfapyridine   | 47   | 16  |
| 600-14-6   | 2,3-Pentanedione  | 34   | 14  |
| 602-87-9   | 5-Nitroacenaphthene   | 45   | 16  |
| 604-75-1   | Oxazepam  | 46   | 16  |
| 604-75-1   | Oxazepam  | 46   | 16  |
| 607-91-0   | Myristicin  | 34   | 14  |
| @ 607-91-0 | Toxicogenomics study of<br>allylbenzene & propenylbenzene<br>class flavor constituents (TGMX)<br>(Primary CASRN is<br>TGMXFLAVCLAS) | 54   | *   |
| 608-93-5   | Pentachlorobenzene  | 38   | 16  |
| 609-20-1   | 2,6-Dichloro-p-phenylenediamine   | 42   | 16  |
| 611-14-3   | 2-ethyltoluene  | 52   | *   |
| 611-14-3   | 2-ethyltoluene  | 32   | 5   |
| 612-82-8   | 3,3'-Dimethylbenzidine<br>dihydrochloride   | 43   | 16  |
| 614-45-9   | tert-Butyl perbenzoate  | 36   | 16  |
| 616-91-1   | Antioxidant model (TRAMP) -<br>N-acetylcysteine   | 51   | *   |
| 619-17-0   | 4-Nitroanthranilic acid   | 45   | 16  |
| 620-14-4   | 3-ethyltoluene  | 52   | *   |
| 622-51-5   | p-Tolylurea   | 50   | 17  |
| 622-96-8   | 4-ethyltoluene  | 52   | *   |
| 624-18-0   | p-Phenylenediamine<br>dihydrochloride   | 46   | 16  |
| 624-83-9   | Methyl isocyanate   | 49   | 17  |
| 628-02-4   | Hexanamide  | 49   | 17  |
| 630-16-0   | Halogenated ethanes CS<br>(1,1,1,2-Tetrabromoethane)  | 37   | 16  |
| 630-20-6   | Halogenated ethanes CS<br>(1,1,1,2-Tetrachloroethane)   | 37   | 16  |
| 630-20-6   | 1,1,1,2-Tetrachloroethane   | 47   | 16  |
| 631-64-1   | Water disinfection byproducts<br>(Dibromoacetic acid)   | 56   | *   |
| 631-64-1   | Water disinfection byproducts<br>(Dibromoacetic acid)   | 48   | 16  |
| 636-21-5   | o-Toluidine hydrochloride   | 48   | 16  |
| 636-21-5   | o-Toluidine hydrochloride   | 39   | 16  |
| 643-22-1   | Erythromycin stearate   | 43   | 16  |
| 643-79-8   | ortho-Phthalaldehyde  | 38   | 16  |
| 678-39-7   | Fluorotelomer Alcohol 8+2   | 32   | 3   |
| 693-13-0   | Diisopropylcarbodiimide   | 37   | 16  |
| 693-13-0   | Diisopropylcarbodiimide   | 35   | 16  |
| 693-13-0   | Diisopropylcarbodiimide   | 35   | 16  |
| 693-13-0   | Diisopropylcarbodiimide   | 43   | 16  |
| 693-98-1   | 2-Methylimidazole   | 38   | 16  |

@ Denotes multiple CASRNs for study -- see following line for primary CASRN

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| 693-98-1  | 2-Methylimidazole   | 45   | 16  | 1162-65-8   | Aflatoxin B1 (TGMX)   | 32   | 5   |
| 700-06-1  | Indole-3-carbinol   | 37   | 16  | 1163-19-5   | Decabromodiphenyl Ether   | 32   | 5   |
| 700-06-1  | Indole-3-carbinol   | 44   | 16  | 1163-19-5   | Decabromodiphenyl Ether   | 42   | 16  |
| 700-06-1  | Prevention 4 (Indole-3-carbinol)  | 54   | *   | 1212-29-9   | N,N'-Dicyclohexylthiourea   | 42   | 16  |
| @ 700-06-1  | Prevention 4 (Melatonin + indole-3-carbinol)<br>(Primary CASRN is MEL+INDOLCAR) | 54   | *   | 1241-94-7   | 2-Ethylhexyl Diphenyl Phosphate   | 52   | *   |
| @ 723-46-6  | AZT + TMP/SMX (mixture) combination<br>(Primary CASRN is AZTTMPSMX)             | 51   | *   | 1271-19-8   | Titanocene dichloride   | 47   | 16  |
| @ 723-46-6  | AZT + TMP/SMX (mixture) combination<br>(Primary CASRN is AZTTMPSMX)             | 51   | *   | 1300-72-7   | Sodium xylenesulfonate  | 38   | 16  |
| @ 738-70-5  | AZT + TMP/SMX (mixture) combination<br>(Primary CASRN is AZTTMPSMX)             | 51   | *   | 1300-72-7   | Sodium xylenesulfonate  | 47   | 16  |
| @ 738-70-5  | AZT + TMP/SMX (mixture) combination<br>(Primary CASRN is AZTTMPSMX)             | 51   | *   | 1303-00-0   | Gallium arsenide  | 37   | 16  |
| 756-79-6  | Dimethyl methylphosphonate  | 43   | 16  | 1303-00-0   | Gallium arsenide  | 43   | 16  |
| 770-35-4  | Propylene glycol phenyl ether   | 38   | 16  | 1306-19-0   | Cadmium oxide   | 36   | 16  |
| 789-61-7  | beta-Thioguanidine deoxyriboside  | 47   | 16  | 1306-19-0   | Cadmium oxide   | 36   | 16  |
| 822-36-6  | 4-Methylimidazole   | 38   | 16  | 1309-64-4   | Antimony Trioxide   | 40   | 16  |
| 822-36-6  | 4-Methylimidazole   | 45   | 16  | 1313-27-5   | Molybdenum trioxide   | 38   | 16  |
| 828-00-2  | Dimethoxane   | 43   | 16  | 1313-27-5   | Molybdenum trioxide   | 45   | 16  |
| 834-12-8  | Ametryn   | 50   | *   | 1313-99-1   | Nickel (II) oxide   | 45   | 16  |
| 834-28-6  | Phenformin hydrochloride  | 46   | 16  | 1314-62-1   | Vanadium pentoxide  | 39   | 16  |
| 842-07-9  | C.I. Solvent Yellow 14  | 41   | 16  | 1314-62-1   | Vanadium pentoxide  | 48   | 16  |
| 865-21-4  | Vinblastine   | 50   | 17  | @ 1314-87-0   | Lead contaminated soil<br>(Primary CASRN is PBCONTAMSOIL)                       | 52   | *   |
| 868-85-9  | Dimethyl hydrogen phosphite   | 43   | 16  | 1314-87-0   | Lead sulfide  | 52   | *   |
| 924-42-5  | N-Methylolacrylamide  | 45   | 16  | 1314-87-0   | Lead sulfide  | 52   | *   |
| 924-42-5  | Transgenic model evaluation (N-Methylolacrylamide)                              | 55   | *   | 1317-36-8   | Lead oxide  | 52   | *   |
| 924-42-5  | Transgenic model evaluation (N-Methylolacrylamide)                              | 55   | *   | 1317-80-2   | Nanoscale material (Rutile titanium dioxide)                                    | 53   | *   |
| 930-68-7  | 2-Cyclohexen-1-one  | 52   | *   | 1319-77-3   | Cresols   | 36   | 16  |
| 952-23-8  | Proflavin hydrochloride   | 46   | 16  | 1319-77-3   | Cresols   | 42   | 16  |
| 959-24-0  | QT drugs (sotalol hydrochloride)  | 54   | *   | 1321-74-0   | Divinylbenzene  | 52   | *   |
| 961-11-5  | Tetrachlorvinphos   | 47   | 16  | 1321-74-0   | Divinylbenzene  | 43   | 16  |
| 968-81-0  | Acetohexamide   | 39   | 16  | @ 1327-53-3   | Chemical mixture - drinking water contaminants<br>(Primary CASRN is CHEMMIXH2O) | 36   | 16  |
| 982-57-0  | Chloramphenicol sodium succinate  | 51   | *   | 1328-53-6   | C.I. Phthalocyanine green   | 51   | *   |
| 989-38-8  | Rhodamine 6G  | 47   | 16  | @ 1330-20-7   | Chemical mixture - drinking water contaminants<br>(Primary CASRN is CHEMMIXH2O) | 36   | 16  |
| 989-51-5  | Antioxidant model (TRAMP) - Epigallocatechin gallate                            | 51   | *   | 1330-20-7   | Xylenes (mixed)   | 48   | 16  |
| 999-81-5  | 2-Chloroethyltrimethylammonium chloride   | 41   | 16  | 1330-78-5   | Tricresyl Phosphate   | 56   | *   |
| 1067-33-0   | Dibutyltin diacetate  | 42   | 16  | 1330-78-5   | Tricresyl Phosphate   | 56   | *   |
| 1071-83-6   | Glyphosate  | 37   | 16  | 1330-78-5   | Tricresyl Phosphate   | 48   | 16  |
| 1071-83-6   | Glyphosate  | 37   | 16  | @ 1333-82-0   | Chemical mixture - drinking water contaminants<br>(Primary CASRN is CHEMMIXH2O) | 36   | 16  |
| @ 1095-90-5   | AZT + Methadone HCl (AIDS)<br>(Primary CASRN is AZTMETHCOMB)                    | 51   | *   | 1338-23-4   | Methyl ethyl ketone peroxide  | 38   | 16  |
| 1116-54-7   | N-Nitrosodiethanolamine   | 53   | *   | 1415-73-2   | Aloin   | 50   | *   |
| 1124-64-7   | Ionic Liquid: N-Butylpyridinium Chloride  | 37   | 16  | 1420-04-8   | Clonitralid   | 41   | 16  |
| @ 1124-64-7   | Ionic liquid Toxicity<br>(Primary CASRN is IONICLIQUIDS)                        | 52   | *   | 1455-77-2   | Guanazole   | 49   | 17  |
| 1156-19-0   | Tolazamide  | 47   | 16  | 1465-25-4   | N-(1-Naphthyl)ethylenediamine dihydrochloride                                   | 45   | 16  |
|   |   |      |     | 1478-61-1   | Bisphenol AF  | 32   | 5   |
|   |   |      |     | 1582-09-8   | Trifluralin   | 48   | 16  |
|   |   |      |     | 1596-84-5   | Daminozide  | 42   | 16  |
|   |   |      |     | 1617-90-9   | Vincamine   | 56   | *   |
|   |   |      |     | 1629-58-9   | Ethyl vinyl ketone  | 52   | *   |
|   |   |      |     | 1634-78-2   | Malaoxon  | 44   | 16  |

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| @ 1646-87-3   | Pesticide/fertilizer contamination--mixture 2 (Primary CASRN is PESTFERTMIX2)        | 38   | 16  | 2164-17-2   | Fluometuron   | 43   | 16  |
| @ 1646-88-4   | Pesticide/fertilizer contamination--mixture 2 (Primary CASRN is PESTFERTMIX2)        | 38   | 16  | 2185-92-4   | 2-Biphenylamine hydrochloride   | 40   | 16  |
| 1649-08-7   | Halogenated ethanes CS (1,2-Dichloro-1,1-difluoroethane)                             | 37   | 16  | 2243-62-1   | 1,5-Naphthalenediamine  | 45   | 16  |
| 1746-01-6   | Toxic equivalency factor evaluation (TCDD)   | 47   | 16  | 2244-16-8   | D-Carvone   | 41   | 16  |
| 1746-01-6   | TEF transgenics (TCDD)   | 54   | *   | 2385-85-5   | Mirex   | 45   | 16  |
| 1746-01-6   | 2,3,7,8-Tetrachlorodibenzo-p-dioxin  | 47   | 16  | 2425-85-6   | C.I. Pigment Red 3  | 41   | 16  |
| 1746-01-6   | 2,3,7,8-Tetrachlorodibenzo-p-dioxin  | 47   | 16  | 2426-08-6   | n-Butyl Glycidyl Ether  | 51   | *   |
| @ 1746-01-6   | Toxic equivalency factor evaluation (Dioxin mixture) (Primary CASRN is TEFDIOXINMIX) | 48   | 16  | 2429-74-5   | C.I. Direct Blue 15   | 41   | 16  |
| 1746-01-6   | Transgenic Model Evaluation (2,3,7,8-Tetrachlorodibenzodioxin)                       | 55   | *   | 2432-99-7   | 11-Aminoundecanoic acid   | 39   | 16  |
| 1746-01-6   | Transgenic Model Evaluation (2,3,7,8-Tetrachlorodibenzodioxin)                       | 55   | *   | 2438-88-2   | 2,3,5,6-Tetrachloro-4-nitroanisole                                      | 47   | 16  |
| 1746-01-6   | Transgenic Model Evaluation (2,3,7,8-Tetrachlorodibenzodioxin)                       | 55   | *   | 2440-22-4   | Phenolic Benzotriazoles (Drometrizole)                                  | 32   | 5   |
| 1746-01-6   | Transgenic Model Evaluation (2,3,7,8-Tetrachlorodibenzodioxin)                       | 56   | *   | 2475-45-8   | C.I. Disperse Blue 1  | 41   | 16  |
| 1747-60-0   | 6-Methoxy-2-benzothiazolamine  | 53   | *   | 2489-77-2   | Trimethylthiourea   | 48   | 16  |
| 1763-23-1   | Perfluorooctane Sulfonate  | 38   | 16  | 2602-46-2   | C.I. Direct Blue 6  | 36   | 16  |
| 1777-84-0   | 3-Nitro-p-acetophenetide   | 45   | 16  | 2602-46-2   | C.I. Direct Blue 6  | 51   | *   |
| 1825-21-4   | Pentachloroanisole   | 46   | 16  | 2608-48-2   | 5-(4-Nitrophenyl)-2,4-pentadien-1-al (NPPD)                             | 53   | *   |
| 1836-75-5   | Nitrofen   | 45   | 16  | 2608-48-2   | 5-(4-Nitrophenyl)-2,4-pentadien-1-al (NPPD)                             | 53   | *   |
| 1836-75-5   | Nitrofen   | 45   | 16  | 2698-41-1   | o-Chlorobenzalmalononitrile (CS)  | 41   | 16  |
| 1896-62-4   | Methyl trans-styryl ketone   | 53   | *   | 2757-90-6   | Agaritine   | 49   | 17  |
| 1896-62-4   | Methyl trans-styryl ketone   | 53   | *   | 2783-94-0   | FD & C Yellow No. 6   | 43   | 16  |
| 1896-62-4   | Methyl trans-styryl ketone   | 45   | 16  | 2784-94-3   | HC Blue 1   | 44   | 16  |
| 1897-45-6   | Chlorothalonil   | 41   | 16  | 2832-40-8   | C.I. Disperse Yellow 3  | 41   | 16  |
| @ 1912-24-9   | Pesticide/fertilizer contamination--mixture 2 (Primary CASRN is PESTFERTMIX2)        | 38   | 16  | 2835-39-4   | Allyl isovalerate   | 39   | 16  |
| @ 1912-24-9   | Pesticide/fertilizer contamination--mixture 3 (Primary CASRN is PESTFERTMIX3)        | 38   | 16  | 2835-95-2   | 5-Amino-o-cresol  | 36   | 16  |
| 1918-02-1   | Picloram   | 46   | 16  | 2871-01-4   | HC Red 3  | 44   | 16  |
| 1936-15-8   | C.I. Acid Orange 10  | 41   | 16  | 3147-75-9   | Phenolic Benzotriazoles (Octrizole)                                     | 33   | 5   |
| 1937-37-7   | C.I. Direct Black 38   | 36   | 16  | 3147-76-0   | Phenolic Benzotriazoles (2-(2H-Benzotriazol-2-yl)-4-tert-butylphenol)   | 32   | 5   |
| 1948-33-0   | t-Butylhydroquinone  | 41   | 16  | 3165-93-3   | 4-Chloro-o-toluidine hydrochloride                                      | 41   | 16  |
| 1955-45-9   | Pivalolactone  | 46   | 16  | 3252-43-5   | Water disinfection byproducts (Dibromoacetonitrile)                     | 48   | 16  |
| 1972-08-3   | 1-trans-delta-9-Tetrahydrocannabinol   | 39   | 16  | 3296-90-0   | 2,2-bis(Bromomethyl)-1,3-propanediol                                    | 51   | *   |
| 1972-08-3   | 1-trans-delta-9-Tetrahydrocannabinol   | 47   | 16  | 3296-90-0   | 2,2-bis(Bromomethyl)-1,3-propanediol                                    | 36   | 16  |
| 1982-37-2   | Methdilazine   | 53   | *   | 3296-90-0   | 2,2-bis(Bromomethyl)-1,3-propanediol                                    | 40   | 16  |
| 2058-46-0   | Oxytetracycline hydrochloride  | 46   | 16  | 3296-90-0   | Fish project 1 (2,2-bis(Bromomethyl)-1,3-propanediol)                   | 43   | 16  |
|   |  |      |     | 3296-90-0   | Fish project 1 (2,2-bis(Bromomethyl)-1,3-propanediol)                   | 43   | 16  |
|   |  |      |     | 3380-34-5   | Triclosan   | 56   | *   |
|   |  |      |     | 3380-34-5   | Triclosan   | 48   | 16  |
|   |  |      |     | 3380-34-5   | Triclosan   | 33   | 5   |
|   |  |      |     | 3416-24-8   | Glucosamine   | 52   | *   |
|   |  |      |     | 3458-22-8   | IPD (3,3'-iminobis-1-propanol dimethanesulfonate (ester) hydrochloride) | 44   | 16  |
|   |  |      |     | 3524-68-3   | Pentaerythritol triacrylate   | 35   | 16  |
|   |  |      |     | 3524-68-3   | Pentaerythritol triacrylate   | 35   | 16  |
|   |  |      |     | 3546-10-9   | Phenesterin   | 46   | 16  |
|   |  |      |     | 3567-69-9   | C.I. Acid Red 14  | 41   | 16  |

@ Denotes multiple CASRNs for study -- see following line for primary CASRN

\* See Appendix, Short-Term Studies for Which Toxicity Technical Reports Were Not Prepared

| Index of Chemicals by Chemical Abstracts Service<br>Registry Number (CASRN) with Reference Location |  |      |     | Index of Chemicals by Chemical Abstracts Service<br>Registry Number (CASRN) with Reference Location |  |      |     |
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| CASRN   | CHEMICAL NAME  | PAGE | REF | CASRN   | CHEMICAL NAME  | PAGE | REF |
| 3622-84-2   | N-Butylbenzenesulfonamide  | 32   | 5   | @ 6484-52-2   | Pesticide/fertilizer<br>contamination--mixture 2<br>(Primary CASRN is<br>PESTFERTMIX2)   | 38   | 16  |
| 3622-84-2   | N-Butylbenzenesulfonamide  | 32   | 3   |   |  |      |     |
| 3778-73-2   | Isophosphamide   | 44   | 16  |   |  |      |     |
| 3864-99-1   | Phenolic Benzotriazoles (2-(5-Chloro-2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl)phenol) | 33   | 5   | @ 6484-52-2   | Pesticide/fertilizer<br>contamination--mixture 3<br>(Primary CASRN is<br>PESTFERTMIX3)   | 38   | 16  |
| 3871-99-6   | Perfluorohexane sulfonate<br>potassium salt (PFHKSlt)  | 38   | 16  | 6533-68-2   | Scopolamine hydrobromide<br>trihydrate   | 38   | 16  |
| 3896-11-5   | Phenolic Benzotriazoles<br>(Bumetrizole)   | 33   | 5   | 6533-68-2   | Scopolamine hydrobromide<br>trihydrate   | 54   | *   |
| 4170-30-3   | Crotonaldehyde   | 52   | *   | 6533-68-2   | Scopolamine hydrobromide<br>trihydrate   | 47   | 16  |
| 4320-30-3   | L-Arginine Glutamate   | 49   | 17  | 6959-47-3   | 2-Chloromethylpyridine<br>hydrochloride  | 41   | 16  |
| 4342-03-4   | Dacarbazine  | 49   | 17  | 6959-48-4   | 3-Chloromethylpyridine<br>hydrochloride  | 41   | 16  |
| 4465-94-5   | Cytoxal alcohol  | 49   | 17  | 7008-42-6   | Acronycine   | 39   | 16  |
| 5131-60-2   | 4-Chloro-m-phenylenediamine  | 41   | 16  | 7166-19-0   | beta-Bromo-beta-nitrostyrene   | 36   | 16  |
| 5160-02-1   | D&C Red No. 9  | 42   | 16  | 7177-48-2   | Ampicillin trihydrate  | 39   | 16  |
| 5263-02-5   | Zinc Carbonate, Basic  | 48   | 16  | 7220-79-3   | Methylene blue trihydrate  | 53   | *   |
| 5307-14-2   | 2-Nitro-p-phenylenediamine   | 45   | 16  | 7220-79-3   | Methylene blue trihydrate  | 53   | *   |
| 5392-40-5   | Citral   | 41   | 16  | 7220-79-3   | Methylene blue trihydrate  | 45   | 16  |
| 5392-40-5   | Citral   | 51   | *   | 7336-20-1   | 4,4'-Diamino-2,2'-<br>stilbenedisulfonic acid, disodium<br>salt                          | 42   | 16  |
| 5392-40-5   | Citral   | 51   | *   | @ 7439-92-1   | Lead contaminated soil<br>(Primary CASRN is<br>PBCONTAMSOIL)                             | 52   | *   |
| 5407-04-5   | Dimethylaminopropyl chloride,<br>hydrochloride   | 52   | *   | 7440-22-4   | Nanoscale Silver   | 53   | *   |
| 5407-04-5   | Dimethylaminopropyl chloride,<br>hydrochloride   | 37   | 16  | 7440-47-3   | Chromium   | 49   | 17  |
| 5436-43-1   | 2,2',4,4'-Tetrabromodiphenyl<br>Ether  | 54   | *   | 7440-48-4   | Cobalt   | 42   | 16  |
| 5436-43-1   | 2,2',4,4'-Tetrabromodiphenyl<br>Ether  | 54   | *   | 7446-18-6   | Thallium (I) sulfate   | 33   | 6   |
| 5436-43-1   | 2,2',4,4'-Tetrabromodiphenyl<br>Ether  | 33   | 5   | 7446-34-6   | Selenium sulfide   | 47   | 16  |
| 5522-43-0   | 1-Nitropyrene  | 38   | 16  | 7446-34-6   | Selenium sulfide   | 47   | 16  |
| 5589-96-8   | Water disinfection byproducts<br>(Bromochloroacetic acid)                                    | 48   | 16  | @ 7481-89-2   | 3'-Azido-3'-deoxythymidine and<br>2',3'-Dideoxycytidine<br>(Primary CASRN is AZTDDCCOMB) | 51   | *   |
| 5634-39-9   | Iodinated glycerol   | 44   | 16  | 7481-89-2   | 2',3'-Dideoxycytidine  | 52   | *   |
| 5694-00-8   | Glycidamide  | 44   | 16  | 7481-89-2   | 2',3'-Dideoxycytidine  | 52   | *   |
| @ 5743-04-4   | Chemical mixture - drinking water<br>contaminants<br>(Primary CASRN is CHEMMIXH2O)           | 36   | 16  | 7481-89-2   | 2',3'-Dideoxycytidine  | 52   | *   |
| 5989-27-5   | D-Limonene   | 44   | 16  | @ 7481-89-2   | Interferon AD + ddC (AIDS<br>Initiative)<br>(Primary CASRN is INTDDCCOMB)                | 52   | *   |
| @ 6018-89-9   | Chemical mixture - drinking water<br>contaminants<br>(Primary CASRN is CHEMMIXH2O)           | 36   | 16  | @ 7487-94-7   | Chemical mixture - drinking water<br>contaminants<br>(Primary CASRN is CHEMMIXH2O)       | 36   | 16  |
| 6055-19-2   | Transgenic model evaluation<br>(Cyclophosphamide monohydrate)                                | 55   | *   | 7487-94-7   | Mercuric chloride  | 45   | 16  |
| 6055-19-2   | Transgenic model evaluation<br>(Cyclophosphamide monohydrate)                                | 55   | *   | 7562-61-0   | (+)-Usnic Acid   | 34   | 14  |
| 6055-52-3   | 1,6-Hexanediamine dihydrochloride  | 37   | 16  | 7632-00-0   | Sodium nitrite   | 38   | 16  |
| 6055-52-3   | 1,6-Hexanediamine dihydrochloride  | 37   | 16  | 7632-00-0   | Sodium nitrite   | 47   | 16  |
| 6109-97-3   | 3-Amino-9-ethylcarbazole HCl   | 39   | 16  | 7681-49-4   | Sodium Fluoride  | 47   | 16  |
| 6317-18-6   | Methylene bis(thiocyanate)   | 38   | 16  | 7681-49-4   | Sodium Fluoride  | 50   | 17  |
| 6358-85-6   | Diarylanilide yellow   | 42   | 16  | @ 7681-52-9   | Chloraminated water<br>(Primary CASRN is<br>CHLORAMINEMX)                                | 41   | 16  |
| 6369-59-1   | 2,5-Toluenediamine sulfate   | 48   | 16  | @ 7681-52-9   | Chlorinated water<br>(Primary CASRN is<br>CHLORWATERMX)                                  | 41   | 16  |
| 6373-74-6   | C.I. Acid Orange 3   | 41   | 16  | 7758-99-8   | Cupric sulfate   | 36   | 16  |
| 6425-39-4   | 2,2'-Dimorpholinodiethyl Ether   | 32   | 5   |   |  |      |     |
| 6459-94-5   | C.I. Acid Red 114  | 41   | 16  |   |  |      |     |
| 6471-49-4   | C.I. Pigment Red 23  | 41   | 16  |   |  |      |     |

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| Index of Chemicals by Chemical Abstracts Service<br>Registry Number (CASRN) with Reference Location |  |      |     | Index of Chemicals by Chemical Abstracts Service<br>Registry Number (CASRN) with Reference Location |  |      |     |
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| CASRN   | CHEMICAL NAME  | PAGE | REF | CASRN   | CHEMICAL NAME  | PAGE | REF |
| 7758-99-8   | Cupric sulfate   | 36   | 16  | 9012-76-4   | Chitosan   | 36   | 16  |
| 7772-99-8   | Stannous chloride  | 47   | 16  | 10026-24-1  | Cobalt sulfate heptahydrate  |      | 16  |
| 7775-09-9   | Water disinfection byproducts<br>(Sodium chlorate)                                       | 48   | 16  | 10026-24-1  | Cobalt sulfate heptahydrate  | 42   | 16  |
| @ 7782-50-5   | Chlorinated water<br>(Primary CASRN is<br>CHLORWATERMX)                                  | 41   | 16  | 10028-15-6  | Ozone  | 46   | 16  |
| 7784-42-1   | Arsine   | 51   | *   | 10028-15-6  | Ozone  | 46   | 16  |
| @ 7784-46-5   | Arsenic antioxidant mixture<br>(Primary CASRN is<br>ANTIOXCOMBO2)                        | 51   | *   | @ 10028-15-6  | Ozone/NNK<br>(Primary CASRN is OZONNNKCOMB)  | 46   | 16  |
| @ 7784-46-5   | Arsenic antioxidant mixture<br>(Primary CASRN is<br>ANTIOXCOMBO2)                        | 51   | *   | 10034-96-5  | Manganese sulfate monohydrate  | 38   | 16  |
| @ 7786-81-4   | Chemical mixture - drinking water<br>contaminants<br>(Primary CASRN is CHEMMIXH2O)       | 36   | 16  | 10034-96-5  | Manganese sulfate monohydrate  | 44   | 16  |
| 7789-12-0   | Sodium dichromate dihydrate (VI)   | 47   | 16  | 10043-35-3  | Boric acid   | 40   | 16  |
| 7789-12-0   | Sodium dichromate dihydrate (VI)   | 38   | 16  | @ 10060-12-5  | Chemical mixture - drinking water<br>contaminants<br>(Primary CASRN is CHEMMIXH2O) | 36   | 16  |
| 7789-38-0   | Water disinfection model (Sodium<br>bromate)   | 35   | 16  | 10096-91-0  | Phenolic Benzotriazoles<br>(2-(2H-Benzotriazol-2-yl)phenol)                        | 33   | 5   |
| 7789-38-0   | Water disinfection model (Sodium<br>bromate)   | 35   | 16  | 10101-97-0  | Nickel sulfate hexahydrate   | 45   | 16  |
| 7789-38-0   | Water disinfection model (Sodium<br>bromate)   | 35   | 16  | 10102-18-8  | Sodium selenite  | 38   | 16  |
| 7803-51-2   | Phosphine  | 53   | *   | @ 10108-64-2  | Chemical mixture - drinking water<br>contaminants<br>(Primary CASRN is CHEMMIXH2O) | 36   | 16  |
| 8000-27-9   | Cedarwood oil  | 36   | 16  | 10213-10-2  | Sodium Tungstate Dihydrate   | 35   | 14  |
| 8001-23-8   | Safflower oil  | 47   | 16  | 10318-26-0  | Dibromodulcitol  | 49   | 17  |
| 8001-26-1   | Prevention 1 (Flaxseed oil)  | 53   | *   | 10326-27-9  | Barium chloride dihydrate  | 36   | 16  |
| @ 8001-26-1   | Prevention 1 (Flaxseed oil +<br>melatonin)<br>(Primary CASRN is<br>FLAXSEED+MEL)         | 54   | *   | 10326-27-9  | Barium chloride dihydrate  | 40   | 16  |
| 8001-30-7   | Corn oil   | 42   | 16  | @ 10599-90-3  | Chloraminated water<br>(Primary CASRN is<br>CHLORAMINEMX)                          | 41   | 16  |
| 8001-35-2   | Toxaphene  | 48   | 16  | @ 11084-85-8  | Chlorinated trisodium phosphate<br>(Primary CASRN is 56802-99-4)                   | 41   | 16  |
| 8001-79-4   | Castor oil   | 36   | 16  | @ 11096-82-5  | Chemical mixture - drinking water<br>contaminants<br>(Primary CASRN is CHEMMIXH2O) | 36   | 16  |
| 8001-97-6   | Aloe vera gel  | 39   | 16  | 11097-69-1  | Aroclor 1254   | 40   | 16  |
| 8003-03-0   | Aspirin, phenacetin, and caffeine  | 40   | 16  | 12001-28-4  | Asbestos, crocidolite  | 40   | 16  |
| 8003-22-3   | D&C Yellow No. 11  | 36   | 16  | 12001-29-5  | Asbestos, chrysotile(IR)   | 40   | 16  |
| 8003-22-3   | D&C Yellow No. 11  | 42   | 16  | 12001-29-5  | Asbestos, chrysotile(IR)   | 40   | 16  |
| 8008-20-6   | Navy fuels JP-5  | 45   | 16  | 12001-29-5  | Asbestos, chrysotile(IR) +<br>Dimethyl hydrazine                                   | 40   | 16  |
| 8013-11-4   | Senna (powdered)   | 38   | 16  | 12001-29-5  | Asbestos, chrysotile(IR) +<br>Dimethyl hydrazine                                   | 40   | 16  |
| 8013-11-4   | Senna (powdered)   | 38   | 16  | 12001-29-5  | Asbestos, chrysotile(SR)   | 40   | 16  |
| 8016-94-2   | Brominated Vegetable Oil   | 32   | 5   | 12001-29-5  | Asbestos, chrysotile(SR)   | 40   | 16  |
| 8024-37-1   | Turmeric, oleoresin (curcumin)   | 48   | 16  | 12024-21-4  | Gallium oxide  | 52   | *   |
| 8057-49-6   | Valerian (Valeriana officinalis<br>L.) root extract                                      | 33   | 5   | 12035-72-2  | Nickel subsulfide  | 45   | 16  |
| 9000-01-5   | Gum Arabic   | 44   | 16  | 12172-73-5  | Asbestos, amosite  | 40   | 16  |
| 9000-30-0   | Guar gum   | 44   | 16  | 12172-73-5  | Asbestos, amosite  | 40   | 16  |
| 9000-38-8   | Kava kava extract  | 44   | 16  | 12172-73-5  | Asbestos, amosite + Dimethyl<br>hydrazine  | 40   | 16  |
| 9000-40-2   | Locust bean gum  | 44   | 16  | 13010-47-4  | Lomustine  | 49   | 17  |
| 9002-18-0   | Agar   | 39   | 16  | 13171-21-6  | Phosphamidon   | 46   | 16  |
| 9002-89-5   | Polyvinyl alcohol  | 46   | 16  | @ 13292-46-1  | AZT + Rifampin (AIDS Initiative)<br>(Primary CASRN is AZTRIFAMPIN)                 | 36   | 16  |
| 9005-65-6   | Polysorbate 80 (glycol)  | 46   | 16  | 13311-84-7  | Flutamide  | 52   | *   |
| @ 9007-28-7   | Glucosamine Hydrochloride +<br>Chondroitin Sulfate<br>(Primary CASRN is<br>GLUCOSCHONDN) | 52   | *   | 13366-73-9  | Photodioldrin  | 46   | 16  |
| 9009-54-5   | Polyurethane   | 50   | 17  | 13410-01-0  | Sodium selenate  | 38   | 16  |
|   |  |      |     | 13463-67-7  | Titanium dioxide   | 47   | 16  |
|   |  |      |     | 13552-44-8  | 4,4'-Methylenedianiline<br>dihydrochloride   | 45   | 16  |

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| Index of Chemicals by Chemical Abstracts Service<br>Registry Number (CASRN) with Reference Location |  |      |     | Index of Chemicals by Chemical Abstracts Service<br>Registry Number (CASRN) with Reference Location |  |      |     |
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| CASRN   | CHEMICAL NAME  | PAGE | REF | CASRN   | CHEMICAL NAME  | PAGE | REF |
| 13674-84-5  | Tris(Chloropropyl)phosphate  | 33   | 5   | 18662-53-8  | Nitrilotriacetic acid trisodium monohydrate  | 45   | 16  |
| 13674-84-5  | Tris(Chloropropyl)phosphate  | 33   | 7   | 18883-66-4  | Streptozotocin   | 50   | 17  |
| 13718-26-8  | Sodium Metavanadate  | 33   | 5   | 19010-66-3  | Lead dimethyldithiocarbamate   | 44   | 16  |
| 13765-19-0  | Calcium chromate   | 49   | 17  | 20265-96-7  | p-Chloroaniline hydrochloride  | 41   | 16  |
| 13909-09-6  | Methyl CCNU  | 49   | 17  | 20265-97-8  | p-Anisidine hydrochloride  | 40   | 16  |
| 13983-17-0  | Wollastonite calcium silicates   | 50   | 17  | 20265-97-8  | Transgenic LEP (p-Anisidine hydrochloride)   | 55   | *   |
| 14047-09-7  | 3,3',4,4'-Tetrachloroazobenzene  | 54   | *   | 20265-97-8  | Transgenic model evaluation (p-Anisidine HCl)  | 55   | *   |
| 14047-09-7  | 3,3',4,4'-Tetrachloroazobenzene  | 38   | 16  | 20325-40-0  | 3,3'-Dimethoxybenzidine dihydrochloride  | 43   | 16  |
| 14047-09-7  | 3,3',4,4'-Tetrachloroazobenzene  | 38   | 16  | 20830-81-3  | Daunomycin   | 49   | 17  |
| 14047-09-7  | 3,3',4,4'-Tetrachloroazobenzene  | 47   | 16  | 20941-65-5  | Ethyl tellurac   | 43   | 16  |
| 14047-09-7  | 3,3',4,4'-Tetrachloroazobenzene  | 33   | 5   | @ 21087-64-9  | Pesticide/fertilizer contamination--mixture 3 (Primary CASRN is PESTFERTMIX3)        | 38   | 16  |
| 14371-10-9  | trans-Cinnamaldehyde   | 41   | 16  | 21232-47-3  | 3,3',4,4'-Tetrachloroazoxybenzene  | 38   | 16  |
| 14371-10-9  | trans-Cinnamaldehyde   | 51   | *   | @ 21416-67-1  | ICRF-159 (Primary CASRN is 21416-87-5)   | 44   | 16  |
| 14567-73-8  | Tremolite  | 48   | 16  | 21416-87-5  | ICRF-159   | 44   | 16  |
| 14807-96-6  | Talc   | 47   | 16  | @ 21725-46-2  | Pesticide/fertilizer contamination--mixture 3 (Primary CASRN is PESTFERTMIX3)        | 38   | 16  |
| 14808-60-7  | Silica, crystalline - quartz   | 54   | *   | 21739-91-3  | Cytembena  | 42   | 16  |
| 14808-60-7  | Silica, crystalline - quartz   | 54   | *   | 21850-44-2  | Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)                                   | 38   | 16  |
| 14808-60-7  | Silica, crystalline - quartz   | 54   | *   | 22398-80-7  | Indium phosphide   | 44   | 16  |
| 15356-70-4  | DL-menthol   | 44   | 16  | 22839-47-0  | Transgenic model evaluation II (Aspartame)   | 35   | 16  |
| 15481-70-6  | 2,6-Toluenediamine dihydrochloride (2,6-diaminotoluene dihydrochloride)            | 48   | 16  | 22839-47-0  | Transgenic model evaluation II (Aspartame)   | 35   | 16  |
| 15481-70-6  | Transgenic model evaluation (2,6-Diaminotoluene 2HCl)                              | 55   | *   | 22966-79-6  | Estradiol mustard  | 43   | 16  |
| 15481-70-6  | Transgenic model evaluation (2,6-Diaminotoluene 2HCl)                              | 55   | *   | 23246-96-0  | Riddelliine  | 38   | 16  |
| 15625-89-5  | Trimethylolpropane triacrylate   | 35   | 16  | 23246-96-0  | Riddelliine  | 47   | 16  |
| 15625-89-5  | Trimethylolpropane triacrylate   | 35   | 16  | 24072-75-1  | 5,6-Dichloro-2-benzothiazolamine   | 52   | *   |
| 15625-89-5  | Trimethylolpropane triacrylate   | 48   | 16  | 24382-04-5  | Malonaldehyde, sodium salt   | 44   | 16  |
| 15805-73-9  | Transgenic LEP (Vinyl carbamate)   | 55   | *   | 25013-15-4  | Vinyl toluene  | 48   | 16  |
| @ 15972-60-8  | Pesticide/fertilizer contamination--mixture 3 (Primary CASRN is PESTFERTMIX3)      | 38   | 16  | 25152-84-5  | 2,4-Decadienal   | 52   | *   |
| 16071-86-6  | C.I. Direct Brown 95   | 36   | 16  | 25152-84-5  | 2,4-Decadienal   | 36   | 16  |
| @ 16561-29-8  | Arsenic antioxidant mixture (Primary CASRN is ANTIOXCOMBO2)                        | 51   | *   | 25265-71-8  | Dipropylene glycol   | 37   | 16  |
| @ 16561-29-8  | Arsenic antioxidant mixture (Primary CASRN is ANTIOXCOMBO2)                        | 51   | *   | 25265-71-8  | Dipropylene glycol   | 43   | 16  |
| @ 16561-29-8  | Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG) (Primary CASRN is INIT/PROM) | 44   | 16  | 25637-99-4  | 1,3,5,7,9,11-Hexabromocyclododecane  | 32   | 5   |
| @ 16561-29-8  | Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG) (Primary CASRN is INIT/PROM) | 44   | 16  | 25812-30-0  | Peroxisome project (Gemfibrozil)   | 53   | *   |
| @ 16561-29-8  | Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG) (Primary CASRN is INIT/PROM) | 44   | 16  | 25973-55-1  | Phenolic Benzotriazoles (2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylpropyl)phenol) | 33   | 5   |
| 16561-29-8  | Tetradecanoyl phorbol acetate (TPA)  | 54   | *   | 26040-51-7  | Bis(2-ethylhexyl) tetrabromophthalate  | 33   | 5   |
| 16561-29-8  | Transgenic LECM (Tetradecanoyl phorbol acetate (TPA))                              | 55   | *   | 26471-62-5  | 2,4- & 2,6-Toluene diisocyanate  | 48   | 16  |
| 17026-81-2  | 3-Amino-4-ethoxyacetanilide  | 39   | 16  | 26628-22-8  | Sodium azide   | 47   | 16  |
| 17924-92-4  | Zearalenone  | 48   | 16  | 26780-96-1  | 1,2-Dihydro-2,2,4-trimethylquinoline (polymer)                                       | 52   | *   |
| 18107-18-1  | Trimethylsilyldiazomethane (TMSD)  | 33   | 5   | 27774-13-6  | Vanadyl sulfate  | 33   | 5   |
| 18662-53-8  | Nitrilotriacetic acid trisodium monohydrate  | 45   | 16  | 27882-76-4  | Chromium picolinate monohydrate  | 41   | 16  |
|   |  |      |     | 28300-74-5  | Antimony potassium tartrate  |      | 16  |

@ Denotes multiple CASRN for study -- see following line for primary CASRN

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| Index of Chemicals by Chemical Abstracts Service<br>Registry Number (CASRN) with Reference Location |   |      |     | Index of Chemicals by Chemical Abstracts Service<br>Registry Number (CASRN) with Reference Location |   |      |     |
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| 28407-37-6  | C.I. Direct Blue 218  | 36   | 16  | 32534-81-9  | Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]  | 33   | 5   |
| 28407-37-6  | C.I. Direct Blue 218  | 41   | 16  |   |   |      |     |
| 29761-21-5  | Isodecyl Diphenyl Phosphate   | 52   | *   | 33229-34-4  | HC Blue 2   | 44   | 16  |
| 30516-87-1  | 3'-Azido-3'-deoxythymidine (AIDS)   | 40   | 16  | 33286-22-5  | QT drugs (diltiazem hydrochloride)  | 54   | *   |
| 30516-87-1  | 3'-Azido-3'-deoxythymidine (AIDS)   | 40   | 16  | 33857-26-0  | 2,7-Dichlorodibenzo-p-dioxin  | 42   | 16  |
| 30516-87-1  | 3'-Azido-3'-deoxythymidine (AIDS)   | 40   | 16  | 34256-82-1  | Acetochlor  | 50   | *   |
| 30516-87-1  | 3'-Azido-3'-deoxythymidine (AIDS)   | 40   | 16  | @ 34885-03-5  | Crude MCHM (Primary CASRN is CRUDEMCHM)   | 52   | *   |
| 30516-87-1  | 3'-Azido-3'-deoxythymidine (AIDS)   | 40   | 16  | 34885-03-5  | 4-Methylcyclohexanemethanol   | 38   | 16  |
| 30516-87-1  | 3'-Azido-3'-deoxythymidine (AIDS)   | 40   | 16  | @ 35065-27-1  | Toxic equivalency factor evaluation (Binary mixture; PCB 126/PCB 153) (Primary CASRN is TEFBINARYMIX) | 47   | 16  |
| 30516-87-1  | 3'-Azido-3'-deoxythymidine (AIDS)   | 40   | 16  |   |   |      |     |
| 30516-87-1  | 3'-Azido-3'-deoxythymidine (AIDS)   | 40   | 16  | 35065-27-1  | Toxic equivalency factor evaluation (PCB 153- 2,2'-4,4',5,5'-hexachlorobiphenyl)                      | 48   | 16  |
| @ 30516-87-1  | 3'-Azido-3'-deoxythymidine and 2',3'-Dideoxycytidine (Primary CASRN is AZTDDCCOMB)                  | 51   | *   | 35691-65-7  | 1,2-Dibromo-2,4-dicyanobutane   | 52   | *   |
| @ 30516-87-1  | 3'-Azido-3'-deoxythymidine and 2',3'-Dideoxyinosine (AIDS initiative) (Primary CASRN is AZTDDICOMB) | 51   | *   | 35691-65-7  | 1,2-Dibromo-2,4-dicyanobutane   | 52   | *   |
|   |   |      |     | 35691-65-7  | 1,2-Dibromo-2,4-dicyanobutane   | 37   | 16  |
|   |   |      |     | 35691-65-7  | 1,2-Dibromo-2,4-dicyanobutane   | 42   | 16  |
| @ 30516-87-1  | AZT+3TC+NVP combination (Primary CASRN is AZT3TCCOMBO)  | 40   | 16  | 37319-17-8  | Elmiron (sodium pentosanpolysulfate)  | 43   | 16  |
| @ 30516-87-1  | AZT/Drug Combinations Transplacental/Neonatal Study (Primary CASRN is AIDS DRUGSNEO)                | 51   | *   | 37319-17-8  | Elmiron (sodium pentosanpolysulfate)  | 37   | 16  |
|   |   |      |     | 37853-59-1  | 1,2-Bis(2,4,6-tribromophenoxy)ethane  | 32   | 5   |
| @ 30516-87-1  | AZT + Isoniazid (AIDS Initiative) (Primary CASRN is AZTISONIAZID)                                   | 36   | 16  | 39156-41-7  | 2,4-Diaminoanisole sulfate  | 42   | 16  |
|   |   |      |     | 39300-88-4  | Tara gum  | 47   | 16  |
| @ 30516-87-1  | AZT + Methadone HCl (AIDS) (Primary CASRN is AZTMETHCOMB)   | 51   | *   | 41372-08-1  | Methyldopa sesquihydrate  | 45   | 16  |
|   |   |      |     | 49562-28-9  | Fenofibrate   | 32   | 5   |
| @ 30516-87-1  | AZT + Nitazoxanide (AIDS Initiative) (Primary CASRN is AZT+NITAZOX)                                 | 51   | *   | 50471-44-8  | Vinclozolin   | 56   | *   |
|   |   |      |     | 50647-08-0  | Ginseng   | 43   | 16  |
| @ 30516-87-1  | AZT + Pyrazinamide combination (AIDS Initiative) (Primary CASRN is AZTZINAMIDE)                     | 36   | 16  | 50647-08-0  | Ginseng   | 32   | 5   |
|   |   |      |     | 50679-08-8  | QT drugs (terfenadine)  | 54   | *   |
| @ 30516-87-1  | AZT + Rifampin (AIDS Initiative) (Primary CASRN is AZTRIFAMPIN)                                     | 36   | 16  | 50892-23-4  | Peroxisome project (WY-14643)   | 38   | 16  |
|   |   |      |     | 50892-23-4  | Transgenic model evaluation (WY-14643)  | 56   | *   |
| @ 30516-87-1  | AZT + TMP/SMX (mixture) combination (Primary CASRN is AZTTMPMSX)                                    | 51   | *   | 50892-23-4  | Transgenic model evaluation (WY-14643)  | 56   | *   |
|   |   |      |     | 50892-23-4  | Wyeth 14,643 (WY)   | 39   | 16  |
| @ 30516-87-1  | AZT + TMP/SMX (mixture) combination (Primary CASRN is AZTTMPMSX)                                    | 51   | *   | 50892-23-4  | Wyeth 14,643 (WY)   | 56   | *   |
|   |   |      |     | @ 51181-40-9  | Crude MCHM (Primary CASRN is CRUDEMCHM)   | 52   | *   |
| 30516-87-1  | AZT transplacental carcinogenesis study   | 40   | 16  | @ 51218-45-2  | Pesticide/fertilizer contamination--mixture 3 (Primary CASRN is PESTFERTMIX3)                         | 38   | 16  |
| @ 30516-87-1  | Interferon AD + 3'-azido-3'-deoxythymidine (AIDS Initiative) (Primary CASRN is INTAZTCOMB)          | 44   | 16  |   |   |      |     |
| 31508-00-6  | Toxic equivalency factor evaluation (PCB 118)   | 47   | 16  | 51264-14-3  | Amsacrine   | 49   | 17  |
|   |   |      |     | 51481-10-8  | Deoxynivalenol  | 32   | 2   |
| @ 31508-00-6  | Toxic equivalency factor evaluation (PCB Mixture; PCB 126/PCB 118) (Primary CASRN is TEFPCBMIX)     | 47   | 16  | 51936-55-1  | Hexachlorocyclopentadienyl-dibromocyclooctane   | 32   | 5   |
|   |   |      |     | 54150-69-5  | 2,4-Dimethoxyaniline hydrochloride  | 43   | 16  |
| 32534-81-9  | Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]  | 46   | 16  | 54464-57-2  | Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super@; OTNE)      | 37   | 16  |
| 32534-81-9  | Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]  | 53   | *   |   |   |      |     |
| 32534-81-9  | Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]  | 53   | *   | 55566-30-8  | Tetrakis(hydroxymethyl)phosphonium sulfate  | 47   | 16  |

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| Index of Chemicals by Chemical Abstracts Service<br>Registry Number (CASRN) with Reference Location |   |      |     | Index of Chemicals by Chemical Abstracts Service<br>Registry Number (CASRN) with Reference Location |  |      |     |
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| 55589-62-3  | Transgenic Model Evaluation II<br>(Acesulfame Potassium)  | 35   | 16  | 64742-88-7  | Stoddard solvent (type 11C)  | 47   | 16  |
| @ 55981-09-4  | AZT + Nitazoxanide (AIDS<br>Initiative)<br>(Primary CASRN is AZT+NITAZOX)   | 51   | *   | 65039-09-0  | Ionic Liquid:<br>1-Ethyl-3-methylimidazolium<br>Chloride   | 37   | 16  |
| 56802-99-4  | Chlorinated trisodium phosphate   | 41   | 16  | @ 65039-09-0  | Ionic liquid Toxicity<br>(Primary CASRN is<br>IONICLIQUIDS)  | 52   | *   |
| 56803-37-3  | tert-Butylphenyl Diphenyl<br>Phosphate  | 51   | *   | 65646-68-6  | Retinoid project 2<br>(4-(Hydroxyphenyl)retinamide)  | 54   | *   |
| 57018-52-7  | Propylene glycol mono-t-butyl<br>ether  | 46   | 16  | @ 65646-68-6  | Retinoid project 1<br>(Primary CASRN is RETINOID1)   | 54   | *   |
| 57117-31-4  | Toxic equivalency<br>factor evaluation (PECDF<br>(Pentachlorodibenzofuran))                                       | 47   | 16  | 65646-68-6  | Retinoid project 4<br>(4-(Hydroxyphenyl)retinamide)  | 54   | *   |
| @ 57117-31-4  | TEF transgenics (PCB 126 / PECDF<br>mixture)<br>(Primary CASRN is<br>TEFTGMIXTURE)                                | 54   | *   | 65646-68-6  | Retinoid project 5<br>(4-(Hydroxyphenyl)retinamide)  | 54   | *   |
| 57117-31-4  | TEF transgenics (PECDF)   | 54   | *   | 65646-68-6  | Retinoid project 6 (4-HPR)   | 54   | *   |
| @ 57117-31-4  | Toxic equivalency factor<br>evaluation (Dioxin mixture)<br>(Primary CASRN is<br>TEFDIOXINMIX)                     | 48   | 16  | @ 65666-07-1  | Prevention 2 (Silymarin)   | 53   | *   |
| 57465-28-8  | 3,3,4,4,5-Pentachlorobiphenyl<br>(PCB 126)  | 53   | *   | @ 65666-07-1  | Prevention 2 (Silymarin +<br>melatonin)<br>(Primary CASRN is<br>SILYMARN+MEL)                                | 53   | *   |
| @ 57465-28-8  | Toxic equivalency factor<br>evaluation (Binary mixture; PCB<br>126/PCB 153)<br>(Primary CASRN is<br>TEFBINARYMIX) | 47   | 16  | 67774-32-7  | Polybrominated biphenyl mixture<br>(Firemaster FF-1)   | 46   | 16  |
| @ 57465-28-8  | Toxic equivalency factor<br>evaluation (PCB Mixture; PCB 126/<br>PCB 118)<br>(Primary CASRN is TEFPCEMIX)         | 47   | 16  | 67774-32-7  | Polybrominated biphenyl mixture<br>(Firemaster FF-1)   | 46   | 16  |
| 57465-28-8  | TEF transgenics (PCB 126)   | 54   | *   | 68359-37-5  | Cyfluthrin   | 52   | *   |
| @ 57465-28-8  | TEF transgenics (PCB 126 / PECDF<br>mixture)<br>(Primary CASRN is<br>TEFTGMIXTURE)                                | 54   | *   | 68603-42-9  | Coconut oil acid diethanolamine<br>condensate  | 42   | 16  |
| @ 57465-28-8  | Toxic equivalency factor<br>evaluation (Dioxin mixture)<br>(Primary CASRN is<br>TEFDIOXINMIX)                     | 48   | 16  | 68603-42-9  | Transgenic LECM (Coconut oil acid<br>diethanolamine condensate)  | 54   | *   |
| 57465-28-8  | Toxic equivalency factor<br>evaluation ((PCB 126)<br>3,3',4,4',5-pentachlorobiphenyl)                             | 48   | 16  | 68603-42-9  | Transgenic LECM (Coconut oil acid<br>diethanolamine condensate)  | 54   | *   |
| 57653-85-7  | 1,2,3,6,7,8-Hexachlorodibenzo-p-<br>dioxin  | 44   | 16  | 68937-41-7  | Isopropylated Phenol Phosphate   | 32   | 5   |
| 57653-85-7  | 1,2,3,6,7,8-Hexachlorodibenzo-p-<br>dioxin  | 44   | 16  | 68937-41-7  | Isopropylated Phenol Phosphate   | 52   | *   |
| 59820-43-8  | HC Yellow 4   | 44   | 16  | @ 69655-05-6  | 3'-Azido-3'-deoxythymidine<br>and 2',3'-Dideoxyinosine (AIDS<br>initiative)<br>(Primary CASRN is AZTDDICOMB) | 51   | *   |
| 59865-13-3  | Transgenic LEP (Cyclosporin A)  | 55   | *   | 70321-86-7  | Phenolic Benzotriazoles (2-(2H-<br>benzotriazol-2-yl)-4,6-bis(1-<br>methyl-1-phenylethyl)phenol)             | 33   | 5   |
| 59865-13-3  | Transgenic model evaluation<br>(Cyclosporin A)  | 55   | *   | 71133-14-7  | Water disinfection byproducts<br>(Bromodichloroacetic Acid)  | 33   | 5   |
| 59865-13-3  | Transgenic model evaluation<br>(Cyclosporin A)  | 55   | *   | 71133-14-7  | Water disinfection byproducts<br>(Bromodichloroacetic Acid)  | 56   | *   |
| 61702-44-1  | 2-Chloro-p-phenylenediamine<br>sulfate  | 41   | 16  | 71133-14-7  | Water disinfection byproducts<br>(Bromodichloroacetic Acid)  | 48   | 16  |
| @ 63449-39-8  | Chlorinated paraffins: C12, 60%<br>chlorine<br>(Primary CASRN is 108171-26-2)                                     | 41   | 16  | 74764-40-2  | QT drugs (bepiridil hydrochloride)   | 54   | *   |
| @ 63449-39-8  | Chlorinated paraffins: C23, 43%<br>chlorine<br>(Primary CASRN is 108171-27-3)                                     | 41   | 16  | 75330-75-5  | QT drugs (Lovastatin)  | 54   | *   |
| @ 64091-91-4  | Ozone/NNK<br>(Primary CASRN is OZONNNKCOMB)   | 46   | 16  | 76231-76-0  | alpha/beta Thujone mixture   | 33   | 5   |
|   |   |      |     | 76231-76-0  | alpha/beta Thujone mixture   | 39   | 16  |
|   |   |      |     | 76231-76-0  | alpha/beta Thujone mixture   | 47   | 16  |
|   |   |      |     | 76543-88-9  | Interferon A (AIDS Initiative)   | 44   | 16  |
|   |   |      |     | 77439-76-0  | 3-Chloro-4-(dichloromethyl)-5-<br>hydroxy-2(5H)-furanone(MX)   | 51   | *   |
|   |   |      |     | 79794-75-5  | QT drugs (Loratadine)  | 54   | *   |
|   |   |      |     | 79917-90-1  | Ionic Liquid:<br>1-Butyl-3-methylimidazolium<br>Chloride   | 52   | *   |
|   |   |      |     | @ 79917-90-1  | Ionic liquid Toxicity<br>(Primary CASRN is<br>IONICLIQUIDS)  | 52   | *   |

@ Denotes multiple CASRN for study -- see following line for primary CASRN

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| 84268-23-5  | Phenolic Benzotriazoles (3-(2H-Benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxybenzenepropanoic acid, octyl ester) | 49   | 17  | @ 159989-65-8   | AZT/Drug Combinations<br>Transplacental/Neonatal Study<br>(Primary CASRN is<br>AIDSDRUGSNEO)      | 51   | *   |
| 84603-60-1  | Goldenseal extract   | 52   | *   | 173584-44-6   | Indoxacarb  | 52   | *   |
| 84604-20-6  | Milk thistle extract   | 45   | 16  | 183658-27-7   | 2-ethylhexyl-2,3,4,5-tetrabromobenzoate   | 33   | 5   |
| 84604-20-6  | Milk thistle extract   | 33   | 5   | 299184-76-2   | Dong quai (Angelica sinensis root extract)  | 32   | 2   |
| 84776-26-1  | Black Cohosh   | 51   | *   | 479500-35-1   | Ionic Liquid:<br>1-Butyl-1-methylpyrrolidinium Chloride   | 52   | *   |
| 84776-26-1  | Black Cohosh   | 32   | 5   | @ 479500-35-1   | Ionic liquid Toxicity<br>(Primary CASRN is<br>IONICLIQUIDS)                                       | 52   | *   |
| 84776-26-1  | Black Cohosh   | 51   | *   | @ 103-90-2  | Rat feed study (TGMX rat liver evaluation)  | 54   | *   |
| 84776-26-1  | Black Cohosh   | 33   | 6   | (Primary CASRN is<br>TGMXRALVFEEED)   |   |      |     |
| 84776-26-1  | Black Cohosh   | 51   | *   | @ 103426-96-6   | PCN 66/67 comparison study<br>(Primary CASRN is<br>PCNCOMPARISN)                                  | 34   | 14  |
| 84852-53-9  | 1,2-bis(pentabromophenyl)ethane  | 32   | 5   | @ 103426-97-7   | PCN 66/67 comparison study<br>(Primary CASRN is<br>PCNCOMPARISN)                                  | 34   | 14  |
| 85509-19-9  | Flusilazole  | 52   | *   | @ 1162-65-8   | Rat feed study (TGMX rat liver evaluation)  | 54   | *   |
| 90045-23-1  | Garcinia Cambogia Extract  | 52   | *   | (Primary CASRN is<br>TGMXRALVFEEED)   |   |      |     |
| 90045-36-6  | Ginkgo biloba extract  | 43   | 16  | @ 1746-01-6   | PCN 66/67 comparison study<br>(Primary CASRN is<br>PCNCOMPARISN)                                  | 34   | 14  |
| 90045-36-6  | Ginkgo biloba extract  | 52   | *   | @ 50-81-7   | Rat feed study (TGMX rat liver evaluation)  | 54   | *   |
| 96180-79-9  | Microcystin-LA (TGMX)  | 53   | *   | (Primary CASRN is<br>TGMXRALVFEEED)   |   |      |     |
| @ 96180-79-9  | Microcystin mixture (TGMX)<br>(Primary CASRN is<br>MICROCYSTNMX)   | 53   | *   | @ 69-72-7   | alpha/beta Hydroxy acids<br>(glycolic acid, salicylic acid)<br>(Primary CASRN is<br>HYDROXGLYSAL) | 39   | 16  |
| @ 98955-27-2  | Crude MCHM<br>(Primary CASRN is CRUDEMCHM)   | 52   | *   | @ 73-22-3   | Rat feed study (TGMX rat liver evaluation)  | 54   | *   |
| 99685-96-8  | Nanoscale material (Fullerene-C60 1 micron)  | 34   | 14  | (Primary CASRN is<br>TGMXRALVFEEED)   |   |      |     |
| 99685-96-8  | Nanoscale material (Fullerene-C60 50 nanometers)   | 34   | 14  | @ 79-14-1   | alpha/beta Hydroxy acids<br>(glycolic acid, salicylic acid)<br>(Primary CASRN is<br>HYDROXGLYSAL) | 39   | 16  |
| 101043-37-2   | Microcystin-LR (TGMX)  | 53   | *   | @ 81-49-2   | Rat feed study (TGMX rat liver evaluation)  | 54   | *   |
| @ 101043-37-2   | Microcystin mixture (TGMX)<br>(Primary CASRN is<br>MICROCYSTNMX)   | 53   | *   | (Primary CASRN is<br>TGMXRALVFEEED)   |   |      |     |
| 108171-26-2   | Chlorinated paraffins: C12, 60% chlorine   | 41   | 16  | AAV2HAQP1   | Serotype 2 Adeno-associated Viral Vector hAQP1 (rAAV2hAQP1)                                       | 38   | 16  |
| 108171-27-3   | Chlorinated paraffins: C23, 43% chlorine   | 41   | 16  | AAVIRAAPHVEPO   | Serotype 2 Adeno-associated Viral Vector rAAV2rapahEpo  | 34   | 14  |
| 113136-77-9   | Cyclanilide  | 52   | *   | AAVIRVECEPO   | Adeno-associated viral vector (hEPO)  | 50   | *   |
| 116355-83-0   | Fumonisin B1   |      | 16  | ADNVIRVECAQP  | Adenoviral Vector (AdhAQP1)   | 50   | *   |
| 116355-83-0   | Fumonisin B1   | 43   | 16  | ADNVIRVECHGH  | Adenoviral vector (hGH)   | 50   | *   |
| 119168-77-3   | Tebufenpyrad   | 54   | *   | AIDSDRUGSNEO  | AZT/Drug Combinations<br>Transplacental/Neonatal Study  | 51   | *   |
| 121552-61-2   | Cyprodinil   | 52   | *   | AIDSTHERAPEU  | AZT/Drug Combinations<br>Transplacental Carcinogenesis Study                                      | 40   | 16  |
| 125533-88-2   | Retinoid project 6 (Arotinoid)   | 54   | *   | AIRLUNGINT  | Air-Lung Interface Model  | 32   | 4   |
| 125533-88-2   | Retinoid project 3 (Arotinoid)   | 54   | *   |   |   |      |     |
| 125533-88-2   | Retinoid project 5 (Arotinoid)   | 54   | *   |   |   |      |     |
| @ 129618-40-2   | AZT+3TC+NVP combination<br>(Primary CASRN is AZT3TCCOMBO)  | 40   | 16  |   |   |      |     |
| @ 129618-40-2   | AZT/Drug Combinations<br>Transplacental/Neonatal Study<br>(Primary CASRN is<br>AIDSDRUGSNEO)                         | 51   | *   |   |   |      |     |
| @ 134678-17-4   | AZT+3TC+NVP combination<br>(Primary CASRN is AZT3TCCOMBO)  | 40   | 16  |   |   |      |     |
| @ 134678-17-4   | AZT/Drug Combinations<br>Transplacental/Neonatal Study<br>(Primary CASRN is<br>AIDSDRUGSNEO)                         | 51   | *   |   |   |      |     |
| @ 154598-52-4   | AZT/Drug Combinations<br>Transplacental/Neonatal Study<br>(Primary CASRN is<br>AIDSDRUGSNEO)                         | 51   | *   |   |   |      |     |

@ Denotes multiple CASRNs for study -- see following line for primary CASRN

\* See Appendix, Short-Term Studies for Which Toxicity Technical Reports Were Not Prepared

| Index of Chemicals by Chemical Abstracts Service<br>Registry Number (CASRN) with Reference Location |  |      |     | Index of Chemicals by Chemical Abstracts Service<br>Registry Number (CASRN) with Reference Location |   |      |     |
|---|--|------|-----|---|---|------|-----|
| CASRN   | CHEMICAL NAME  | PAGE | REF | CASRN   | CHEMICAL NAME   | PAGE | REF |
| ALOEPHOTOTOX  | Aloe phototoxicity studies   | 39   | 16  | @ BENZOTRIAZOLE   | Phenolic Benzotriazoles<br>(Bumetrizole)<br>(Primary CASRN is 3896-11-5)              | 33   | 5   |
| ALOEVFILTER   | Aloe vera charcoal filtered whole<br>leaf extract  | 39   | 16  | BLASTINGSAND  | Abrasive Blasting Agents:<br>Blasting Sand  | 34   | 14  |
| ALOEVLEAFEXT  | Aloe vera whole leaf extract<br>(native)   | 39   | 16  | CARDIOGENEVL  | Cardio Transmitter Gene<br>Evaluation   | 51   | *   |
| ALOEVLEAFEXT  | Aloe vera whole leaf extract<br>(native)   | 39   | 16  | CELLPRADCDMA  | Cell Phone Radiation: CDMA  | 35   | 14  |
| ALTERNARIA  | Alternaria alternata mold  | 32   | 3   | CELLPRADGSM   | Cell Phone Radiation: GSM   | 35   | 14  |
| AMINOPYRCOMP  | Comparison study of<br>Aminopyridines/Troponin levels  | 51   | *   | CELLULOSEINS  | Cellulose insulation  | 36   | 16  |
| ANTIOXCOMBO2  | Arsenic antioxidant mixture  | 51   | *   | CHEMMIXH2O  | Chemical mixture - drinking water<br>contaminants                                     | 36   | 16  |
| ANTIOXCOMBO2  | Arsenic antioxidant mixture  | 51   | *   | CHLORAMINEMX  | Chloraminated water   | 41   | 16  |
| @ ANTIOXMODEL   | Antioxidant model (TRAMP) -<br>Epigallocatechin gallate<br>(Primary CASRN is 989-51-5)   | 51   | *   | CHLORWATERMX  | Chlorinated water   | 41   | 16  |
| ASPERGILLUS   | Aspergillus fumigatus mold   | 33   | 6   | CIMSTAR3800   | Metal Working Fluids: CIMSTAR<br>3800   | 45   | 16  |
| AZT+NITAZOX   | AZT + Nitazoxanide (AIDS<br>Initiative)  | 51   | *   | COALSLAG  | Abrasive blasting agents (coal<br>slag)   | 50   | *   |
| AZT3TCCOMBO   | AZT+3TC+NVP combination  | 40   | 16  | CRUDEMCHM   | Crude MCHM  | 52   | *   |
| AZTDDCCOMB  | 3'-Azido-3'-deoxythymidine and<br>2',3'-Dideoxycytidine  | 51   | *   | CRUMBRUBBERVARIOUS  | Crumb rubber various  | 36   | 16  |
| AZTDDICOMB  | 3'-Azido-3'-deoxythymidine<br>and 2',3'-Dideoxyinosine (AIDS<br>initiative)  | 51   | *   | CRUSHEDGLASS  | Abrasive blasting agents (crushed<br>glass)   | 50   | *   |
| AZTISONIAZID  | AZT + Isoniazid (AIDS Initiative)  | 36   | 16  | DAMPBLDGMOLD  | Damp Building Mold Mixture  | 32   | 3   |
| AZTMETHCOMB   | AZT + Methadone HCl (AIDS)   | 51   | *   | DIESELFUEL  | Diesel fuel marine  | 42   | 16  |
| AZTRIFAMPIN   | AZT + Rifampin (AIDS Initiative)   | 36   | 16  | DIET2000  | NTP-2000 diet   | 53   | *   |
| AZTTMPSMX   | AZT + TMP/SMX (mixture)<br>combination   | 51   | *   | DIET88+EGMBE  | NTP-88 diet study (EGMBE)   | 53   | *   |
| AZTTMPSMX   | AZT + TMP/SMX (mixture)<br>combination   | 51   | *   | DIET88+EGMEE  | NTP-88 diet study (EGMEE)   | 53   | *   |
| AZTZINAMIDE   | AZT + Pyrazinamide combination<br>(AIDS Initiative)  | 36   | 16  | DIET88+EGMME  | NTP-88 diet study (EGMME)   | 53   | *   |
| @ BENZOTRIAZOLE   | Phenolic Benzotriazoles (2-<br>(2H-Benzotriazol-2-yl)-4-tert-<br>butylphenol)<br>(Primary CASRN is 3147-76-0)  | 32   | 5   | DIET88+MNITR  | NTP-88 diet study<br>(m-Nitrotoluene)   | 53   | *   |
| @ BENZOTRIAZOLE   | Phenolic Benzotriazoles<br>(Drometrizole)<br>(Primary CASRN is 2440-22-4)  | 32   | 5   | DIET88+ONITR  | NTP-88 diet study<br>(o-Nitrotoluene)   | 53   | *   |
| @ BENZOTRIAZOLE   | Phenolic Benzotriazoles (3-<br>(2H-Benzotriazol-2-yl)-<br>5-(1,1-dimethylethyl)-4-<br>hydroxybenzenepropanoic acid,<br>octyl ester)<br>(Primary CASRN is 84268-23-5) | 49   | 17  | DIET88+PNITR  | NTP-88 diet study<br>(p-Nitrotoluene)   | 53   | *   |
| @ BENZOTRIAZOLE   | Phenolic Benzotriazoles<br>(Octrizole)<br>(Primary CASRN is 3147-75-9)   | 33   | 5   | DIET90  | NTP 90 diet study   | 49   | 17  |
| @ BENZOTRIAZOLE   | Phenolic Benzotriazoles (2-(2H-<br>Benzotriazol-2-yl)phenol)<br>(Primary CASRN is 10096-91-0)  | 33   | 5   | DIET9192  | NTP 91/92 diet study  | 49   | 17  |
| @ BENZOTRIAZOLE   | Phenolic Benzotriazoles (2-(2H-<br>benzotriazol-2-yl)-4,6-bis(1,1-<br>dimethylpropyl)phenol)<br>(Primary CASRN is 25973-55-1)  | 33   | 5   | DIETEVAL  | Diet Evaluation Study   | 52   | *   |
| @ BENZOTRIAZOLE   | Phenolic Benzotriazoles (2-(2H-<br>benzotriazol-2-yl)-4,6-bis(1-<br>methyl-1-phenylethyl)phenol)<br>(Primary CASRN is 70321-86-7)                                    | 33   | 5   | DIETH/DIMETH  | Diethyl phthalate/dimethyl<br>phthalate   | 42   | 16  |
| @ BENZOTRIAZOLE   | Phenolic Benzotriazoles (2-(5-<br>Chloro-2H-benzotriazol-2-yl)-4,6-<br>bis(1,1-dimethylethyl)phenol)<br>(Primary CASRN is 3864-99-1)                                 | 33   | 5   | ECOLI_LPS   | Lipopolysaccharides from<br>Escherichia coli  | 52   | *   |
|   |  |      |     | @ EFSSINVECTOR  | Insertional Mutagenesis -<br>Definitive Vector Study<br>(Primary CASRN is INSERTMUT3) | 34   | 8   |
|   |  |      |     | @ EFSSINVECTOR  | Insertional Mutagenesis -<br>Definitive Vector Study<br>(Primary CASRN is INSERTMUT3) | 33   | 7   |
|   |  |      |     | ELECTROMAG  | Magnetic fields (EMF)   | 44   | 16  |
|   |  |      |     | ELECTROMAG  | Magnetic fields (EMF)   | 53   | *   |
|   |  |      |     | ELECTROMAG  | Magnetic fields (EMF)   | 38   | 16  |
|   |  |      |     | @ ELECTROMAG  | Magnetic fields + DMBA initiation<br>promotion<br>(Primary CASRN is EMF+DMBA)         | 38   | 16  |
|   |  |      |     | EMF+DMBA  | Magnetic fields + DMBA initiation<br>promotion  | 38   | 16  |
|   |  |      |     | @ EMTDP-33  | Diesel fuel marine<br>(Primary CASRN is DIESELFUEL)                                   | 42   | 16  |
|   |  |      |     | @ EMTDP-71  | Chlorinated paraffins: C23, 43%<br>chlorine<br>(Primary CASRN is 108171-27-3)         | 41   | 16  |
|   |  |      |     | EMTDP-74  | Selsun  | 47   | 16  |

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| Index of Chemicals by Chemical Abstracts Service<br>Registry Number (CASRN) with Reference Location |   |      |     | Index of Chemicals by Chemical Abstracts Service<br>Registry Number (CASRN) with Reference Location |   |      |     |
|---|---|------|-----|---|---|------|-----|
| CASRN   | CHEMICAL NAME   | PAGE | REF | CASRN   | CHEMICAL NAME   | PAGE | REF |
| EMTDP-75  | Black newsprint ink   | 36   | 16  | INTERFERONAD  | Interferon AD (AIDS Initiative)   | 44   | 16  |
| EMTDP-76  | 3-Methyl-6-methoxy-2-amino-benzothiazolium chloride                                   | 53   | *   | @ INTERFERONAD  | Interferon AD + 3'-azido-3'-deoxythymidine (AIDS Initiative)<br>(Primary CASRN is INTAZTCOMB) | 44   | 16  |
| EMTDP-76  | 3-Methyl-6-methoxy-2-amino-benzothiazolium chloride                                   | 53   | *   | @ INTERFERONAD  | Interferon AD + ddC (AIDS Initiative)<br>(Primary CASRN is INTDDCCOMB)                        | 52   | *   |
| @ EMTDP-86  | 3'-Azido-3'-deoxythymidine and 2',3'-Dideoxycytidine<br>(Primary CASRN is AZTDDCCOMB) | 51   | *   | IONICLIQUIDS  | Ionic liquid Toxicity   | 52   | *   |
| @ EMTDP-92  | Pesticide/fertilizer contamination--mixture 2<br>(Primary CASRN is PESTFERTMIX2)      | 38   | 16  | ISOFLAVCONCN  | Prevention 6 (isoflavone concentrate)   | 54   | *   |
| @ EMTDP-93  | Pesticide/fertilizer contamination--mixture 3<br>(Primary CASRN is PESTFERTMIX3)      | 38   | 16  | ISOFLAVSOYPT  | Prevention 6 (low isoflavone soy protein powder)  | 53   | *   |
| @ EMTDP-99  | Urethane + ethanol (combination)<br>(Primary CASRN is URETHCOMB)                      | 39   | 16  | LA2007  | Libby Amphibole 2007  | 32   | 2   |
| @ EMTDP-99  | Urethane + ethanol (combination)<br>(Primary CASRN is URETHCOMB)                      | 48   | 16  | LEADORES  | Lead ores   | 52   | *   |
| EPHEDCOMBO  | Ephedrine + caffeine combination  | 52   | *   | L-MWNT-1020   | 1020 Long Multiwalled Carbon Nanotube   | 34   | 14  |
| EPHEDCOMBO  | Ephedrine + caffeine combination  | 52   | *   | L-MWNT-1020   | 1020 Long Multiwalled Carbon Nanotube   | 32   | 5   |
| FEEDRESTRICT  | Feed restriction studies  | 43   | 16  | @ LTRVECTOR   | Insertional Mutagenesis - Definitive Vector Study<br>(Primary CASRN is INSERTMUT3)            | 34   | 8   |
| FLAXSEED+MEL  | Prevention 1 (Flaxseed oil + melatonin)   | 54   | *   | @ LTRVECTOR   | Insertional Mutagenesis - Definitive Vector Study<br>(Primary CASRN is INSERTMUT3)            | 33   | 7   |
| GARNET  | Abrasive blasting agents (garnet)   | 50   | *   | MEL+CURCUMIN  | Prevention 4 (Melatonin + curcumin)   | 54   | *   |
| GLUCOSCHONDN  | Glucosamine Hydrochloride + Chondroitin Sulfate                                       | 52   | *   | MEL+INDOLCAR  | Prevention 4 (Melatonin + indole-3-carbinol)  | 54   | *   |
| GLYCINEBENZA  | Benzyl acetate + glycine combination study  | 51   | *   | MELCYANCOMB   | Melamine + Cyanuric Acid combination  | 33   | 5   |
| GOLDENSEALRT  | Goldenseal root powder  | 37   | 16  | MELCYANCOMB   | Melamine + Cyanuric Acid combination  | 53   | *   |
| GOLDENSEALRT  | Goldenseal root powder  | 44   | 16  | MELCYANCOMB   | Melamine + Cyanuric Acid combination  | 33   | 5   |
| GREENTEAEXTR  | Green Tea Extract   | 32   | 5   | MELCYANCOMB   | Melamine + Cyanuric Acid combination  | 32   | 4   |
| GREENTEAEXTR  | Green Tea Extract   | 44   | 16  | MELCYANCOMB   | Melamine + Cyanuric Acid combination  | 32   | 4   |
| GUMGUGGULEXT  | Gum Guggul Extract  | 34   | 14  | MICROBIOME  | Microbiome  | 33   | 6   |
| H2ODAMAGEMLD  | Water Damaged Building Mold Mixture   | 32   | 3   | MICROCYSTNMX  | Microcystin mixture (TGMX)  | 53   | *   |
| HEMATITESPEC  | Abrasive Blasting Agents: Specular Hematite   | 34   | 14  | MOUSEAGE  | Mouse ageing study  | 49   | 17  |
| HYDROXYGLYSAL   | alpha/beta Hydroxy acids (glycolic acid, salicylic acid)                              | 39   | 16  | MOUSEPHENO1   | Ageing Cohort Study: 12951/SvlmJ mouse  | 34   | 11  |
| INIT/PROM   | Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)                                 | 44   | 16  | MOUSEPHENO10  | Ageing Cohort Study: NZO/HiLtJ mouse  | 34   | 11  |
| INIT/PROM   | Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)                                 | 44   | 16  | MOUSEPHENO2   | Ageing Cohort Study: A/J mouse  | 34   | 11  |
| INIT/PROM   | Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)                                 | 44   | 16  | MOUSEPHENO3   | Ageing Cohort Study: C3H/HeJ mouse  | 34   | 11  |
| INIT/PROM   | Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)                                 | 44   | 16  | MOUSEPHENO4   | Ageing Cohort Study: C57/BL/6J mouse  | 34   | 11  |
| INSERTMUT   | Insertional mutagenesis (LTR/SIN vectors)   | 52   | *   | MOUSEPHENO5   | Ageing Cohort Study: CAST/EiJ mouse   | 34   | 11  |
| INSERTMUT2  | Insertional mutagenesis II (SIN vector)   | 52   | *   | MOUSEPHENO6   | Ageing Cohort Study: B6C3F1J mouse  | 34   | 11  |
| INSERTMUT3  | Insertional Mutagenesis - Definitive Vector Study                                     | 34   | 8   | MOUSEPHENO7   | Ageing Cohort Study: NOD. B10Sn-H2(b)/J   | 34   | 11  |
| INSERTMUT3  | Insertional Mutagenesis - Definitive Vector Study                                     | 33   | 7   | MOUSEPHENO8   | Ageing Cohort Study: PWK/PhJ mouse  | 34   | 11  |
| INSERTMUTRAD  | Insertional mutagenesis (Radiation Levels)  | 52   | *   | MOUSEPHENO9   | Ageing Cohort Study: WSB/EiJ mouse  | 34   | 11  |
| INTAZTCOMB  | Interferon AD + 3'-azido-3'-deoxythymidine (AIDS Initiative)                          | 44   | 16  | @ NAOSPINEXTR   | Arsenic antioxidant mixture (Primary CASRN is ANTIOXCOMBO2)                                   | 51   | *   |
| INTDDCCOMB  | Interferon AD + ddC (AIDS Initiative)   | 52   | *   | @ NAOSPINEXTR   | Arsenic antioxidant mixture (Primary CASRN is ANTIOXCOMBO2)                                   | 51   | *   |
|   |   |      |     | NAOSPINEXTR   | Antioxidant model (TRAMP) - NAO (spinach extract)   | 51   | *   |

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|---|--|------|-----|---|---|------|-----|
| CASRN   | CHEMICAL NAME  | PAGE | REF | CASRN   | CHEMICAL NAME   | PAGE | REF |
| NCTSTANDARD   | NCT/DERT standardization experiment (APAP & AMAP)                                      | 53   | *   | TGMXFLAVCLAS  | Toxicogenomics study of allylbenzene & propenylbenzene class flavor constituents (TGMX) | 54   | *   |
| @ NTPMOCKVEC  | Insertional Mutagenesis - Definitive Vector Study<br>(Primary CASRN is INSERTMUT3)     | 34   | 8   | TGMXRALVFEEED   | Rat feed study (TGMX rat liver evaluation)  | 54   | *   |
| @ NTPMOCKVEC  | Insertional Mutagenesis - Definitive Vector Study<br>(Primary CASRN is INSERTMUT3)     | 33   | 7   | @ THUJONEMIXAB  | alpha/beta Thujone mixture<br>(Primary CASRN is 76231-76-0)                             | 33   | 5   |
| OZONNNKCOMB   | Ozone/NNK  | 46   | 16  | @ THUJONEMIXAB  | alpha/beta Thujone mixture<br>(Primary CASRN is 76231-76-0)                             | 39   | 16  |
| PBCONTAMSOIL  | Lead contaminated soil   | 52   | *   | @ THUJONEMIXAB  | alpha/beta Thujone mixture<br>(Primary CASRN is 76231-76-0)                             | 47   | 16  |
| PCNCOMPARISN  | PCN 66/67 comparison study   | 34   | 14  | @ TMPSMXMIXNTP  | AZT + TMP/SMX (mixture)<br>combination<br>(Primary CASRN is AZTTMPMSMX)                 | 51   | *   |
| PESTFERTMIX2  | Pesticide/fertilizer contamination--mixture 2  | 38   | 16  | @ TMPSMXMIXNTP  | AZT + TMP/SMX (mixture)<br>combination<br>(Primary CASRN is AZTTMPMSMX)                 | 51   | *   |
| PESTFERTMIX3  | Pesticide/fertilizer contamination--mixture 3  | 38   | 16  | TRIMSC210   | Metal working fluids (Trim SC210)   | 53   | *   |
| PREGRATECOMP  | Pregnancy Rate Comparison Study  | 53   | *   | TRIMVX  | Metal Working Fluids: TRIM® VX  | 45   | 16  |
| PREVENTION10  | Prevention 10 (Soy isoflavone concentrate)   | 54   | *   | @ UORFLTRVECTOR   | Insertional Mutagenesis - Definitive Vector Study<br>(Primary CASRN is INSERTMUT3)      | 34   | 8   |
| PREVENTION7   | Prevention 7 (feed controls)   | 53   | *   | @ UORFLTRVECTOR   | Insertional Mutagenesis - Definitive Vector Study<br>(Primary CASRN is INSERTMUT3)      | 33   | 7   |
| @ PSINVECTOR  | Insertional Mutagenesis - Definitive Vector Study<br>(Primary CASRN is INSERTMUT3)     | 34   | 8   | URETHCOMB   | Urethane + ethanol (combination)  | 39   | 16  |
| @ PSINVECTOR  | Insertional Mutagenesis - Definitive Vector Study<br>(Primary CASRN is INSERTMUT3)     | 33   | 7   | URETHCOMB   | Urethane + ethanol (combination)  | 48   | 16  |
| QUANTUMDOTS   | Nanoscale material (Quantum dots)  | 53   | *   | USNEALICHEN   | Usnea Lichen  | 34   | 14  |
| RAV5SCTLA4IG  | Serotype 5 Adeno-associated Viral Vector (rAAV5SCTLA4:Ig)                              | 34   | 14  |   |   |      |     |
| RETINOID1   | Retinoid project 1   | 54   | *   |   |   |      |     |
| RETROVIRVECT  | Retroviral vectors   | 54   | *   |   |   |      |     |
| RETROVIRVECT  | Retroviral vectors   | 54   | *   |   |   |      |     |
| RETROVIRVECT  | Retroviral vectors   | 54   | *   |   |   |      |     |
| RETROVIRVECT  | Retroviral vectors   | 54   | *   |   |   |      |     |
| SANTRIMER2  | Styrene-acrylonitrile trimer   | 47   | 16  |   |   |      |     |
| SILYMARN+MEL  | Prevention 2 (Silymarin + melatonin)   | 53   | *   |   |   |      |     |
| @ SINVECTOR   | Insertional Mutagenesis - Definitive Vector Study<br>(Primary CASRN is INSERTMUT3)     | 34   | 8   |   |   |      |     |
| @ SINVECTOR   | Insertional Mutagenesis - Definitive Vector Study<br>(Primary CASRN is INSERTMUT3)     | 33   | 7   |   |   |      |     |
| STACHYSTRN1   | Stachybotrys chartarum strain 1 mold (macrocytic trichothecene chemotype)              | 32   | 3   |   |   |      |     |
| STACHYSTRN2   | Stachybotrys chartarum strain 2 mold (atranone chemotype)                              | 32   | 3   |   |   |      |     |
| STEELWELDFUM  | Welding fumes  | 56   | *   |   |   |      |     |
| SYNTILO1023   | Metal working fluids (Syntilo 1023)  | 53   | *   |   |   |      |     |
| TEFBINARYMIX  | Toxic equivalency factor evaluation (Binary mixture; PCB 126/PCB 153)                  | 47   | 16  |   |   |      |     |
| TEFDIOXINMIX  | Toxic equivalency factor evaluation (Dioxin mixture)                                   | 48   | 16  |   |   |      |     |
| TEFPCEBMIX  | Toxic equivalency factor evaluation (PCB Mixture; PCB 126/PCB 118)                     | 47   | 16  |   |   |      |     |
| TEFTGMIXTURE  | TEF transgenics (PCB 126 / PECDF mixture)  | 54   | *   |   |   |      |     |
| @ TGMODELEVAL   | Transgenic Model Evaluation II (Acesulfame Potassium)<br>(Primary CASRN is 55589-62-3) | 35   | 16  |   |   |      |     |

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