Management Status Report
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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 http://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) .

Contents **Number of Chemicals**

Long-term studies = more than 1 year
Short-term studies = 1 year or less

Abbreviations used in this report:

CODE	Route of Administration	CODE	Route of Administration
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/ 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.

CODE	Primary Use Category	CODE	Primary Use Category
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		

CODE	Species: Strain		CODE	Species: Strain
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
	F2	Fish:Guppy (Poecilia reticulata)
	F3	Fish:Zebra (Danio rerio)
	NA	Fish:Not Available
	NA	Frog:Not Available
	NA	Guinea Pigs:Not Available
	O6	Guinea Pigs:Hartley
	H1	Hamsters:Syrian Golden
	NA	Hamsters:Not Available
	129B6TRP53	Mice:Female 129S1.SvlmJ crossed to B6.129-Trp53<tm1Brd> males homozygous for the Trp53 null allele
	60	Mice:NOD. B10Sn-H2(b)/J
	61	Mice:NZO/HiLtJ
	62	Mice:PWK/PhJ
	63	Mice:B6C3F1/J (Jackson)
	AB6TRP53	Mice:Female A/J crossed to B6.129-Trp53<tm1Brd> males homozygous for the Trp53 null allele
	B6129	Mice:B6.129-Trp53<TM1BRD>
	C3B6	Mice:C3B6.129F1-Trp53<TM1BRD>
	C3B6TRP53	Mice:Female C3H/HeJ crossed to B6.129- Trp53<tm1Brd> males homozygous for the Trp53 null allele
	C6N	Mice:C57BL/6N
	CB6TRP53	Mice:Female Balb/c (C) crossed to B6.129-Trp53<tm1Brd> males homozygous for the Trp53 null allele
	D2B6TRP53	Mice:Female DBA2/J (D2) crossed to B6.129-Trp53<tm1Brd> males homozygous for the Trp53 null allele
	DOJ	Mice:Diversity Outbred (Jackson)
	M0	Mice:SKH-1 Hairless (NCTR)
	M1	Mice:C57BL/6
	M11	Mice:CAST/EiJ (M. m. castaneus)
	M14	Mice:WSB/EiJ (M. m. domesticus)
	M15	Mice:C3H/HeJ
	M2	Mice:C3H
	M22	Mice:B6C3F1/N
	M3	Mice:B6C3F1
	M4	Mice:Swiss
	M5	Mice:Swiss CD-1
	M6	Mice:Swiss Webster
	M7	Mice:Sencar
*	M8	Mice:MMTV/RAS (Tg.SH)
*	M9	Mice:MMTV/MYC (Tg.M)
*	MA	Mice:MMTV/NEU (Tg.Nk)
	MB	Mice:NIH Swiss
*	MC	Mice:PIM
	MCBA	Mice:CBA/ Ca Jackson
*	MD	Mice:P53 +/- (C57BL/6)
*	ME	Mice:Tg.AC (FVB/N) Hemizygous
	MF	Mice:A/J
	MG	Mice:B6.SJL-Ptprc[a] Pepc[b]/BoyJ
*	MH	Mice:Tg/RASH2/CB6F1
	MI	Mice:FVB/N
*	MJ	Mice:C3B6F1-+/TRP53<TM1BRD> (NCTR)
*	MK	Mice:CB6F1-Tg(HRAS)2Jic [(BALB/cByJTac x C57BL/6JTac)-Tg(HRAS)2Jic F1
*	MQ	Mice:P16(Ink4a)/(+/-) (C57BL/6)
	MR	Mice:129S1/SvImJ
*	MS	Mice:P53 +/- (FVB/N)
	MT	Mice:SKH-1 Hairless
*	MU	Mice:TRAMP (C57BL/6 PB-TAG TRANSGENE)
	MV	Mice:B6C3F1/NCTR BR (C57BL/6N x C3H/HEN MTV-)
	MW	Mice:BALB/c
*	MX	Mice:AM3 (C57BL/6)
	MY	Mice:CD-1 Reg.[Crl:CD1(ICR)]
	MZ	Mice:C57BL/6J (Jackson)
	NA	Mice:Not Available
	RB6TRP53	Mice:Female BTBR.Tj (R) crossed to B6.129-Trp53<tm1Brd> males homozygous for the Trp53 null allele
	NA	Monkey:Not Available
	RH	Monkey:Rhesus
	44	Rats:Sprague Dawley (NCTR)
	48	Rats:Crl:CD (SD)
	F344	Rats:Fischer 344
	FSAS	Rats:F344/NCrl (SAS FISCH)
	HSD	Rats:Harlan Sprague-Dawley
	HSDD	Rats:Harlan Sprague Dawley (Dublin Facility)
	HSDE	Rats:Hsd:Sprague Dawley SD
	HSDI	Rats:Harlan Sprague Dawley (Indianapolis Facility)
*	ML	Rats:Tg.Lac1/C57BL/6 (Big Blue)
	NA	Rats:Not Available
	R1	Rats:Osborne Mendel
	R10	Rats:F344/N Charles River
	R2	Rats:F344/N
	R3	Rats:ACI
	R4	Rats:August
	R5	Rats:Long-Evans
	R6	Rats:Marshall
	R7	Rats:Sherman
	R8	Rats:Sprague Dawley
	R9	Rats:Wistar
	RA	Rats:CD
	RB	Rats:NCI Black Reiter (NBR)
	RC	Rats:F344 (NCTR)
	RD	Rats:F344/NTac
	RE	Rats:Wistar Han
	ZL	Rats:Zucker - Lean (HsdHlr:ZUCKER-Lepr+)
	ZLC	Rats:Zucker - Lean (Charles River)
	ZO	Rats:Zucker - Obese (HsdHlr:ZUCKER-Leprfa)
	ZOC	Rats:Zucker - Obese (Charles River)
	NA	Rabbit:Not Available
	NA	Rats/Mice:Not Available
	R2	Rats/Mice:F344/N

* 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 chemicallyrelated 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

CHEMICAL NAME	CASRN	PAGE	REF
Abrasive Blasting Agents: Blasting Sand	BLASTINGSAND	35	14
Abrasive blasting agents (coal slag)	COALSLAG	51	*
Abrasive blasting agents (crushed glass)	CRUSHEDGLASS	51	*
Abrasive blasting agents (garnet)	GARNET	51	*
Abrasive Blasting Agents: Specular Hematite	HEMATITESPEC	35	14
@ Acesulfame Potassium Transgenic Model Evaluation II (Listed As: Transgenic Model Evaluation II (Acesulfame Potassium))	55589-62-3	36	16
Acetaminophen (4-hydroxyacetanilide)	103-90-2	40	16
Acetaminophen (4-hydroxyacetanilide)	103-90-2	51	*
Acetochlor	34256-82-1	51	*
Acetohexamide	968-81-0	40	16
Acetoin	513-86-0	35	14
Acetone	67-64-1	37	16
Acetonitrile	75-05-8	51	*
Acetonitrile	75-05-8	40	16
Acrolein	107-02-8	37	16
Acronycine	7008-42-6	40	16
Acrylamide	79-06-1	32	5
Acrylamide	79-06-1	40	16
Acrylamide	79-06-1	51	*
@ Acryl Brilliant Green (Listed As: Malachite green)	569-64-2	45	16
@ Acryl Brilliant Green (Listed As: Malachite green)	569-64-2	38	16
Acrylonitrile	107-13-1	40	16
Actinomycin D	50-76-0	49	17
Adeno-associated viral vector (hEPO)	AAVIRVECEPO	51	*
Adenoviral vector (hGH)	ADNVIRVECHGH	51	*
Adenoviral Vector (AdhAQP1)	ADNVIRVECAQP	51	*
Aflatoxin B1 (TGMX)	1162-65-8	32	5
Agar	9002-18-0	40	16
Agaritine	2757-90-6	49	17
Aging Cohort Study: 129/SvlmJ mouse	MOUSEPHENO1	34	10
Aging Cohort Study: B6C3F1J mouse	MOUSEPHENO6	34	10
Aging Cohort Study: C3H/HeJ mouse	MOUSEPHENO3	34	10
Aging Cohort Study: C57/BL/6J mouse	MOUSEPHENO4	34	10
Aging Cohort Study: CAST/EiJ mouse	MOUSEPHENO5	34	10
Aging Cohort Study: NZO/HiLtJ mouse	MOUSEPHENO10	34	10
Aging Cohort Study: PWK/PhJ mouse	MOUSEPHENO8	34	10
Aging Cohort Study: WSB/EIJ mouse	MOUSEPHENO9	34	10
Aging Cohort Study: A/J mouse	MOUSEPHENO2	34	10
Aging Cohort Study: NOD. B10Sn-H2(b)/J	MOUSEPHENO7	34	10
@ Aizen Malachite Green (Listed As: Malachite green)	569-64-2	45	16

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CHEMICAL NAME	CASRN	PAGE	REF
@ Aizen Malachite Green (Listed As: Malachite green)	569-64-2	38	16
Aldicarb	116-06-3	40	16
Aldrin	309-00-2	40	16
Allyl acetate	591-87-7	37	16
Allyl alcohol	107-18-6	37	16
Allyl bromide	106-95-6	36	16
Allyl bromide	106-95-6	51	*
Allyl bromide	106-95-6	36	16
Allyl chloride	107-05-1	40	16
Allyl glycidyl ether	106-92-3	40	16
Allyl isothiocyanate	57-06-7	40	16
Allyl isovalerate	2835-39-4	40	16
Aloe-emodin	481-72-1	40	16
Aloe phototoxicity studies	ALOEPHOTOTOX	40	16
Aloe vera charcoal filtered whole leaf extract	ALOEVFILTER	40	16
Aloe vera gel	8001-97-6	40	16
Aloe vera whole leaf extract (native)	ALOEVLEAFEXT	40	16
Aloe vera whole leaf extract (native)	ALOEVLEAFEXT	40	16
Aloin	1415-73-2	32	5
alpha/beta Hydroxy acids (glycolic acid, salicylic acid)	HYDROXGLYSAL	40	16
alpha-Pinene	80-56-8	37	16
alpha-Pinene	80-56-8	34	8
Alternaria alternata mold	ALTERNARIA	32	3
Ametryn	834-12-8	51	*
9-Aminoacridine hydrochloride	134-50-9	51	*
9-Aminoacridine hydrochloride	134-50-9	51	*
2-Aminoanthraquinone	117-79-3	40	16
5-Amino-o-cresol	2835-95-2	37	16
1-Amino-2,4-dibromoanthraquinone	81-49-2	40	16
3-Amino-4-ethoxyacetanilide	17026-81-2	40	16
3-Amino-9-ethylcarbazole	132-32-1	49	17
3-Amino-9-ethylcarbazole HCl	6109-97-3	40	16
1-Amino-2-methylanthraquinone	82-28-0	40	16
2-Amino-4-nitrophenol	99-57-0	40	16
2-Amino-5-nitrophenol	121-88-0	40	16
4-Amino-2-nitrophenol	119-34-6	40	16
2-Amino-5-nitrothiazole	121-66-4	40	16
2-(4-Aminophenyl)-6-methyl-7-benzothiazole sulfonic acid	130-17-6	51	*
3-Aminopyridine	462-08-8	51	*
2-Aminopyridine	504-29-0	51	*
4-Aminopyridine	504-24-5	51	*
Comparison study of Aminopyridines/Troponin levels	AMINOPYRCOMP	51	*
11-Aminoundecanoic acid	2432-99-7	40	16
DL-amphetamine sulfate	60-13-9	40	16
Ampicillin trihydrate	7177-48-2	40	16
Amsacrine	51264-14-3	49	17
@ AN (Listed As: Acrylonitrile)	107-13-1	40	16
Androstenedione	63-05-8	51	*
Androstenedione	63-05-8	51	*

@ 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

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CHEMICAL NAME	CASRN	PAGE	REF
@ C9 Alkylbenzenes (Listed As: 3-ethyltoluene)	620-14-4	33	5
@ C9 Alkylbenzenes (Listed As: 4-ethyltoluene)	622-96-8	33	5
Cadmium oxide	1306-19-0	37	16
Cadmium oxide	1306-19-0	37	16
@ Cadox TBH (Listed As: tert-Butyl hydroperoxide)	75-91-2	51	*
@ Cadox TBH (Listed As: tert-Butyl hydroperoxide)	75-91-2	52	*
Caffeine	58-08-2	52	*
Calcium chromate	13765-19-0	49	17
Calcium cyanamide	156-62-7	41	16
DL-Camphor	76-22-2	52	*
Caprolactam	105-60-2	41	16
Captan	133-06-2	41	16
Carbaryl	63-25-2	52	*
Carbon disulfide	75-15-0	52	*
Carbon disulfide	75-15-0	52	*
Carbon disulfide	75-15-0	52	*
Carbon tetrachloride	56-23-5	49	17
Carbromal	77-65-6	41	16
Cardio Transmitter Gene Evaluation	CARDIOGENEVL	52	*
Carisoprodol	78-44-4	52	*
Carisoprodol	78-44-4	37	16
Carisoprodol	78-44-4		16
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Castor oil	8001-79-4	37	16
Cedarwood oil	8000-27-9	35	14
Cell Phone Radiation: CDMA	CELLPRADCDMA	34	10
Cell Phone Radiation: GSM	CELLPRADGSM	34	10
Cellulose insulation	CELLULOSEINS	37	16
@ CEM (Listed As: bis(2-Chloroethoxy)methane)	111-91-1	32	2
@ CEM (Listed As: bis(2-Chloroethoxy)methane)	111-91-1	41	16
@ CEM (Listed As: bis(2-Chloroethoxy)methane)	111-91-1	52	*
@ CEM (Listed As: bis(2-Chloroethoxy)methane)	111-91-1	52	*
Chemical mixture - drinking water contaminants	CHEMMIXH2O	37	16
Chitosan	9012-76-4	35	12
Chloral hydrate	302-17-0	41	16
Chloral hydrate	302-17-0	37	16
Chloral hydrate	302-17-0	41	16
Chloramben	133-90-4	41	16
Chlorambucil	305-03-3	49	17
Chloraminated water	CHLORAMINEMX	41	16
Chloramphenicol sodium succinate	982-57-0	52	*
Chlordane (analytical grade)	57-74-9	41	16
Chlordecone	143-50-0	41	16

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Chlorendic acid	115-28-6	41	16
Chlorinated paraffins: C12, 60% chlorine	108171-26-2	41	16
Chlorinated paraffins: C23, 43% chlorine	108171-27-3	41	16
Chlorinated trisodium phosphate	56802-99-4	41	16
Chlorinated water	CHLORWATERMX	41	16
@ Chlorine/Sodium hypochlorite (Listed As: Chlorinated water)	CHLORWATERMX	41	16
2-Chloroacetophenone (CN)	532-27-4	41	16
4-(Chloroacetyl)acetanilide	140-49-8	41	16
m-Chloroaniline	108-42-9	37	16
o-Chloroaniline	95-51-2	37	16
p-Chloroaniline	106-47-8	41	16
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	52	*
Chloroethane	75-00-3	41	16
2-Chloroethanol (ethylene chlorohydrin)	107-07-3	41	16
bis(2-Chloroethoxy)methane	111-91-1	32	2
bis(2-Chloroethoxy)methane	111-91-1	41	16
bis(2-Chloroethoxy)methane	111-91-1	52	*
bis(2-Chloroethoxy)methane	111-91-1	52	*
2-Chloroethyltrimethylammonium chloride	999-81-5	41	16
Chloroform	67-66-3	41	16
Chloromethyl methyl ether	107-30-2	49	17
3-Chloro-2-methylpropene	563-47-3	42	16
2-Chloromethylpyridine hydrochloride	6959-47-3	42	16
3-Chloromethylpyridine hydrochloride	6959-48-4	42	16
4-Chloro-2-nitroaniline	89-63-4	52	*
2-Chloronitrobenzene	88-73-3	37	16
4-Chloronitrobenzene	100-00-5	37	16
4-Chloro-m-phenylenediamine	5131-60-2	42	16
4-Chloro-o-phenylenediamine	95-83-0	42	16
2-Chloro-p-phenylenediamine sulfate	61702-44-1	42	16
Chloropicrin	76-06-2	42	16
Chloroprene	126-99-8	37	16
Chloroprene	126-99-8	42	16
Chloroprene	126-99-8	52	*
Chloroprene	126-99-8	52	*
1-Chloro-2-propanol, technical	127-00-4	37	16
1-Chloro-2-propanol, technical	127-00-4	52	*
1-Chloro-2-propanol, technical	127-00-4	42	16
@ 1-Chloro-2-propanol, technical (Transgenic LECM) (Listed As: Transgenic LECM (1-Chloro-2-propanol, technical))	127-00-4	55	*

@ Denotes common names--see following line for correct name.
* See Appendix, Short-Term Studies for Which Toxicity Technical Reports Were Not Prepared

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CHEMICAL NAME	CASRN	PAGE	REF
@ 1-Chloro-2-propanol, technical (Transgenic LECM) (Listed As: Transgenic LECM (1-Chloro-2-propanol, technical))	127-00-4	55	*
o-Chloropyridine	109-09-1	52	*
o-Chloropyridine	109-09-1	35	14
Chlorothalonil	1897-45-6	42	16
3-Chloro-p-toluidine	95-74-9	42	16
5-Chloro-o-toluidine	95-79-4	42	16
4-Chloro-o-toluidine hydrochloride	3165-93-3	42	16
p-Chloro-a,a,a-trifluorotoluene	98-56-6	35	12
p-Chloro-a,a,a-trifluorotoluene	98-56-6	35	13
p-Chloro-a,a,a-trifluorotoluene	98-56-6	37	16
p-Chloro-a,a,a-trifluorotoluene	98-56-6	37	16
@ Chlorowax 40 (Listed As: Chlorinated paraffins: C23, 43% chlorine)	108171-27-3	41	16
@ Chlorowax 500C (Listed As: Chlorinated paraffins: C12, 60% chlorine)	108171-26-2	41	16
Chlorpheniramine maleate	113-92-8	42	16
Chlorpropamide	94-20-2	42	16
Chromium	7440-47-3	49	17
Chromium picolinate monohydrate	27882-76-4	42	16
@ Chrysotile asbestos (Listed As: Asbestos, chrysotile(IR) + Dimethyl hydrazine)	12001-29-5	40	16
@ Chrysotile asbestos (Listed As: Asbestos, chrysotile(IR) + Dimethyl hydrazine)	12001-29-5	40	16
C.I. Phthalocyanine green	1328-53-6	52	*
C.I. Acid Orange 3	6373-74-6	42	16
C.I. Acid Orange 10	1936-15-8	42	16
C.I. Acid Red 14	3567-69-9	42	16
C.I. Acid Red 114	6459-94-5	42	16
@ C.I. Basic Green 4 (Listed As: Malachite green)	569-64-2	45	16
@ C.I. Basic Green 4 (Listed As: Malachite green)	569-64-2	38	16
@ C.I. Basic Red 1 (Listed As: Rhodamine 6G)	989-38-8	47	16
C.I. Basic Red 9 Monohydrochloride	569-61-9	42	16
C.I. Direct Black 38	1937-37-7	37	16
C.I. Direct Blue 6	2602-46-2	37	16
C.I. Direct Blue 6	2602-46-2	52	*
C.I. Direct Blue 15	2429-74-5	42	16
C.I. Direct Blue 218	28407-37-6	37	16
C.I. Direct Blue 218	28407-37-6	42	16
C.I. Direct Brown 95	16071-86-6	37	16
C.I. Disperse Blue 1	2475-45-8	42	16
C.I. Disperse Yellow 3	2832-40-8	42	16
1,8-Cineol	470-82-6	52	*
1,8-Cineol	470-82-6	52	*
Cinnamaldehyde	104-55-2	52	*
trans-Cinnamaldehyde	14371-10-9	42	16

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CHEMICAL NAME	CASRN	PAGE	REF
trans-Cinnamaldehyde	14371-10-9	52	*
Cinnamyl anthranilate	87-29-6	42	16
C.I. Pigment Red 3	2425-85-6	42	16
C.I. Pigment Red 23	6471-49-4	42	16
C.I. Solvent Yellow 14	842-07-9	42	16
Citral	5392-40-5	42	16
Citral	5392-40-5	52	*
Citral	5392-40-5	52	*
C.I. Vat Yellow 4	128-66-5	42	16
Clonitralid	1420-04-8	42	16
@ CN (Listed As: 2-Chloroacetophenone (CN))	532-27-4	41	16
Cobalt	7440-48-4	42	16
Cobalt sulfate heptahydrate	10026-24-1		16
Cobalt sulfate heptahydrate	10026-24-1	42	16
Coconut oil acid diethanolamine condensate	68603-42-9	42	16
@ Coconut oil acid/diethanolamine condensate (Listed As: Coconut oil acid diethanolamine condensate)	68603-42-9	42	16
@ Coconut oil acid diethanolamine condensate (Transgenic LECM) (Listed As: Transgenic LECM (Coconut oil acid diethanolamine condensate))	68603-42-9	55	*
@ Coconut oil acid diethanolamine condensate (Transgenic LECM) (Listed As: Transgenic LECM (Coconut oil acid diethanolamine condensate))	68603-42-9	55	*
Codeine	76-57-3	37	16
Codeine	76-57-3	42	16
@ Copper sulfate (Listed As: Cupric sulfate)	7758-99-8	37	16
@ Copper sulfate (Listed As: Cupric sulfate)	7758-99-8	37	16
Corn oil	8001-30-7	42	16
Coumaphos	56-72-4	42	16
Coumarin	91-64-5	37	16
Coumarin	91-64-5	42	16
Coumarin	91-64-5	33	5
m-Cresidine	102-50-1	42	16
p-Cresidine	120-71-8	42	16
p-Cresidine	120-71-8	52	*
m-Cresol	108-39-4	37	16
o-Cresol	95-48-7	37	16
p-Cresol	106-44-5	37	16
Cresols	1319-77-3	37	16
Cresols	1319-77-3	42	16
@ Crocidolite asbestos (Listed As: Asbestos, crocidolite)	12001-28-4	40	16
Crotonaldehyde	4170-30-3	52	*
Crude MCHM	CRUDEMCHM	33	5
Crumbrubber various	CRUMBRUBBERVARIOUS	33	5
@ CS (Listed As: o-Chlorobenzalmalononitrile (CS))	2698-41-1	41	16

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@ CTFT (Listed As: p-Chloro-a,a,a-trifluorotoluene)	98-56-6	35	12
@ CTFT (Listed As: p-Chloro-a,a,a-trifluorotoluene)	98-56-6	35	13
@ CTFT (Listed As: p-Chloro-a,a,a-trifluorotoluene)	98-56-6	37	16
@ CTFT (Listed As: p-Chloro-a,a,a-trifluorotoluene)	98-56-6	37	16
Cumene	98-82-8	42	16
Cumene hydroperoxide	80-15-9	52	*
Cupferron	135-20-6	42	16
Cupric sulfate	7758-99-8	37	16
Cupric sulfate	7758-99-8	37	16
@ Curcumin (Prevention 4) (Listed As: Prevention 4 (Curcumin))	458-37-7	54	*
Cyclanilide	113136-77-9	52	*
2-Cyclohexen-1-one	930-68-7	52	*
Cyclohexanone	108-94-1	49	17
Cyclohexanone oxime	100-64-1	37	16
Cyclohexene oxide	286-20-4	52	*
Cyclohexene oxide	286-20-4	52	*
Cyclohexene oxide	286-20-4	52	*
Cyclophosphamide	50-18-0	49	17
@ Cyclophosphamide monohydrate (Transgenic model evaluation) (Listed As: Transgenic model evaluation (Cyclophosphamide monohydrate))	6055-19-2	55	*
@ Cyclophosphamide monohydrate (Transgenic model evaluation) (Listed As: Transgenic model evaluation (Cyclophosphamide monohydrate))	6055-19-2	55	*
@ Cyclosporin A (Transgenic model evaluation) (Listed As: Transgenic model evaluation (Cyclosporin A))	59865-13-3	55	*
@ Cyclosporin A (Transgenic model evaluation) (Listed As: Transgenic model evaluation (Cyclosporin A))	59865-13-3	55	*
Cyfluthrin	68359-37-5	52	*
Cylindrospermopsin	143545-90-8	32	3
Cyprodinil	121552-61-2	52	*
Cytarabine	147-94-4	49	17
Cytembena	21739-91-3	42	16
Cytoxal alcohol	4465-94-5	49	17
@ 2,4-D (Peroxisome project) (Listed As: Peroxisome project (2,4-Dichlorophenoxyacetic acid))	94-75-7	54	*
Dacarbazine	4342-03-4	49	17
Daminozide	1596-84-5	42	16
Damp Building Mold Mixture	DAMPBLDGMOLD	32	3
@ DAPSONE (Listed As: 4,4'-Sulfonyldianiline (Dapsone))	80-08-0	47	16
Daunomycin	20830-81-3	49	17

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@ DBCP (Listed As: 1,2-Dibromo-3-chloropropane)	96-12-8	42	16
@ DBCP (Listed As: 1,2-Dibromo-3-chloropropane)	96-12-8	42	16
@ 1,3-DCP (Listed As: 1,3-Dichloropropene (Telone II))	542-75-6	43	16
D&C Red No. 9	5160-02-1	42	16
D&C Yellow No. 11	8003-22-3	37	16
D&C Yellow No. 11	8003-22-3	42	16
@ DDC (AIDS Initiative) (Listed As: 2',3'-Dideoxycytidine)	7481-89-2	52	*
@ DDC (AIDS Initiative) (Listed As: 2',3'-Dideoxycytidine)	7481-89-2	52	*
@ DDC (AIDS Initiative) (Listed As: 2',3'-Dideoxycytidine)	7481-89-2	52	*
o,p'-DDD	53-19-0	49	17
@ DDT (Listed As: Dichlorodiphenyltrichloroethane (DDT))	50-29-3	43	16
@ DDVP (Listed As: Dichlorvos)	62-73-7	43	16
@ DDVP (Listed As: Dichlorvos)	62-73-7	43	16
Decabromodiphenyl Ether	1163-19-5	33	5
Decabromodiphenyl Ether	1163-19-5	42	16
2,4-Decadienal	25152-84-5	52	*
2,4-Decadienal	25152-84-5	37	16
Decalin	91-17-8	42	16
@ DEHP (Listed As: Di(2-ethylhexyl) Phthalate)	117-81-7	35	10
@ DEHP (Listed As: Di(2-ethylhexyl) Phthalate)	117-81-7	35	10
@ DEHP (Listed As: Di(2-ethylhexyl) Phthalate)	117-81-7	52	*
@ DEHP (Listed As: Di(2-ethylhexyl) Phthalate)	117-81-7	33	5
@ DEHP (Listed As: Di(2-ethylhexyl) Phthalate)	117-81-7	52	*
@ DEHP (Listed As: Di(2-ethylhexyl) Phthalate)	117-81-7	43	16
Deoxynivalenol	51481-10-8	32	2
@ DEP (Listed As: Diethyl phthalate)	84-66-2	43	16
@ DES (Transgenic model evaluation) (Listed As: Transgenic model evaluation (DES))	56-53-1	55	*
@ DES (Transgenic model evaluation) (Listed As: Transgenic model evaluation (DES))	56-53-1	55	*
@ DES (Transgenic model evaluation) (Listed As: Transgenic model evaluation (DES))	56-53-1	55	*

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

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@ DES (Transgenic model evaluation) (Listed As: Transgenic model evaluation (DES))	56-53-1	55	*
@ DGRE (Listed As: Diglycidyl resorcinol ether (DGRE))	101-90-6	43	16
@ DHPT (Listed As: 4-(6-Methyl-2-benzothiazolyl)-benzenamine)	92-36-4	53	*
@ DIACETYL (Listed As: 2,3-Butanedione)	431-03-8	35	13
Diallyl phthalate	131-17-9	42	16
Diallyl phthalate	131-17-9	42	16
4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt	7336-20-1	42	16
2,4-Diaminoanisole sulfate	39156-41-7	42	16
2,4-Diaminophenol dihydrochloride	137-09-7	42	16
2,4-Diaminotoluene (2,4-toluene diamine)	95-80-7	42	16
@ 2,6-Diaminotoluene HCL (Transgenic model evaluation) (Listed As: Transgenic model evaluation (2,6-Diaminotoluene 2HCl))	15481-70-6	55	*
@ 2,6-Diaminotoluene HCL (Transgenic model evaluation) (Listed As: Transgenic model evaluation (2,6-Diaminotoluene 2HCl))	15481-70-6	55	*
@ 2,4-Diaminotoluene (Transgenic model evaluation) (Listed As: Transgenic model evaluation (2,4-Diaminotoluene))	95-80-7	55	*
@ 2,4-Diaminotoluene (Transgenic model evaluation) (Listed As: Transgenic model evaluation (2,4-Diaminotoluene))	95-80-7	55	*
Diarylanilide yellow	6358-85-6	42	16
Diazinon	333-41-5	42	16
Diazoaminobenzene	136-35-6	37	16
Dibenzo-p-dioxin	262-12-4	42	16
@ DIBP (Listed As: Dibutyl Phthalate)	84-74-2	35	10
@ DIBP (Listed As: Dibutyl Phthalate)	84-74-2	37	16
@ DIBP (Listed As: Dibutyl Phthalate)	84-74-2	37	16
@ Dibromoacetic acid (Water disinfection byproducts) (Listed As: Water disinfection byproducts (Dibromoacetic acid))	631-64-1	56	*
@ Dibromoacetic acid (Water disinfection byproducts) (Listed As: Water disinfection byproducts (Dibromoacetic acid))	631-64-1	49	16
1,2-Dibromo-3-chloropropane	96-12-8	42	16
1,2-Dibromo-3-chloropropane	96-12-8	42	16
@ Dibromodicyanobutane (Listed As: 1,2-Dibromo-2,4-dicyanobutane)	35691-65-7	52	*

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@ Dibromodicyanobutane (Listed As: 1,2-Dibromo-2,4-dicyanobutane)	35691-65-7	52	*
@ Dibromodicyanobutane (Listed As: 1,2-Dibromo-2,4-dicyanobutane)	35691-65-7	37	16
@ Dibromodicyanobutane (Listed As: 1,2-Dibromo-2,4-dicyanobutane)	35691-65-7	42	16
1,2-Dibromo-2,4-dicyanobutane	35691-65-7	52	*
1,2-Dibromo-2,4-dicyanobutane	35691-65-7	52	*
1,2-Dibromo-2,4-dicyanobutane	35691-65-7	37	16
1,2-Dibromo-2,4-dicyanobutane	35691-65-7	42	16
Dibromodulcitol	10318-26-0	49	17
1,2-Dibromoethane	106-93-4	42	16
1,2-Dibromoethane	106-93-4	42	16
Dibromomannitol	488-41-5	49	17
2,3-Dibromo-1-propanol	96-13-9	42	16
Dibutyl Phthalate	84-74-2	35	10
Dibutyl Phthalate	84-74-2	37	16
Dibutyl Phthalate	84-74-2	37	16
@ Dibutyl phthalate (Peroxisome project) (Listed As: Peroxisome project (Dibutyl phthalate))	84-74-2	53	*
Dibutyltin diacetate	1067-33-0	42	16
@ DIC (Listed As: Diisopropylcarbodiimide)	693-13-0	38	16
@ DIC (Listed As: Diisopropylcarbodiimide)	693-13-0	36	16
@ DIC (Listed As: Diisopropylcarbodiimide)	693-13-0	36	16
@ DIC (Listed As: Diisopropylcarbodiimide)	693-13-0	43	16
@ Dichloroacetic acid (Water disinfection byproducts) (Listed As: Water disinfection byproducts (Dichloroacetic acid))	79-43-6	56	*
@ Dichloroacetic acid (Water disinfection mode) (Listed As: Water disinfection model (Dichloroacetic acid))	79-43-6	36	16
@ Dichloroacetic acid (Water disinfection mode) (Listed As: Water disinfection model (Dichloroacetic acid))	79-43-6	36	16
@ Dichloroacetic acid (Water disinfection mode) (Listed As: Water disinfection model (Dichloroacetic acid))	79-43-6	36	16
1,2-Dichlorobenzene (o-dichlorobenzene)	95-50-1	42	16
1,4-Dichlorobenzene (p-dichlorobenzene)	106-46-7	42	16
5,6-Dichloro-2-benzothiazolamine	24072-75-1	52	*
2,7-Dichlorodibenzo-p-dioxin	33857-26-0	43	16

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@ 1,2-Dichloro-1,1-difluoroethane (Halogenated ethanes CS) (Listed As: Halogenated ethanes CS (1,2-Dichloro-1,1-difluoroethane))	1649-08-7	38	16
p,p'-Dichlorodiphenyl dichloroethylene	72-55-9	43	16
p,p'-Dichlorodiphenyl sulfone	80-07-9		16
p,p'-Dichlorodiphenyl sulfone	80-07-9	43	16
Dichlorodiphenyltrichloroethane (DDT)	50-29-3	43	16
1,1-Dichloroethane	75-34-3	43	16
1,2-Dichloroethane	107-06-2	43	16
1,2-Dichloroethane	107-06-2	37	16
1,2-Dichloroethane	107-06-2		16
1,2-Dichloroethane	107-06-2		16
@ Dichloroethylene,1,1 (Listed As: Vinylidene Chloride)	75-35-4	49	16
@ Dichloroethylene,1,1 (Listed As: Vinylidene Chloride)	75-35-4	49	16
cis & trans 1,2-Dichloroethylene	540-59-0	52	*
cis-1,2-Dichloroethylene	156-59-2	52	*
trans-1,2-Dichloroethylene	156-60-5	52	*
trans-1,2-Dichloroethylene	156-60-5	52	*
trans-1,2-Dichloroethylene	156-60-5	38	16
@ Dichloromethane (Listed As: Methylene chloride)	75-09-2	45	16
Dichloromethotrexate	528-74-5	49	17
2,4-Dichlorophenol	120-83-2	43	16
2,6-Dichloro-p-phenylenediamine	609-20-1	43	16
1,2-Dichloropropane (propylene dichloride)	78-87-5	43	16
1,3-Dichloropropene (Telone II)	542-75-6	43	16
2,3-Dichloropropylene	78-88-6	52	*
Dichlorvos	62-73-7	43	16
Dichlorvos	62-73-7	43	16
Dicofol	115-32-2	43	16
Dicyclohexylcarbodiimide	538-75-0	36	16
Dicyclohexylcarbodiimide	538-75-0	36	16
Dicyclohexylcarbodiimide	538-75-0	36	16
N,N'-Dicyclohexylthiourea	1212-29-9	43	16
2',3'-Dideoxycytidine	7481-89-2	52	*
2',3'-Dideoxycytidine	7481-89-2	52	*
2',3'-Dideoxycytidine	7481-89-2	52	*
@ 2',3'-Dideoxycytidine (AIDS Initiative) (Listed As: 2',3'-Dideoxycytidine)	7481-89-2	52	*
@ 2',3'-Dideoxycytidine (AIDS Initiative) (Listed As: 2',3'-Dideoxycytidine)	7481-89-2	52	*
@ 2',3'-Dideoxycytidine (AIDS Initiative) (Listed As: 2',3'-Dideoxycytidine)	7481-89-2	52	*
Dieldrin	60-57-1	43	16
Dieldrin	60-57-1	43	16

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Diesel fuel marine	DIESELFUEL	43	16
Diet Evaluation Study	DIETEVAL	52	*
Diethanolamine	111-42-2	38	16
Diethanolamine	111-42-2	38	16
Diethanolamine	111-42-2	43	16
@ Diethanolamine (Transgenic LECM) (Listed As: Transgenic LECM (diethanolamine))	111-42-2	56	*
Diethylamine	109-89-7	43	16
Di(2-ethylhexyl)adipate	103-23-1	43	16
Di(2-ethylhexyl) Phthalate	117-81-7	35	10
Di(2-ethylhexyl) Phthalate	117-81-7	35	10
Di(2-ethylhexyl) Phthalate	117-81-7	52	*
Di(2-ethylhexyl) Phthalate	117-81-7	33	5
Di(2-ethylhexyl) Phthalate	117-81-7	52	*
Di(2-ethylhexyl) Phthalate	117-81-7	43	16
@ Di (2-ethylhexyl) phthalate (Transgenic model evaluation) (Listed As: Transgenic model evaluation (Di(2-ethylhexyl) phthalate))	117-81-7	55	*
@ Di (2-ethylhexyl) phthalate (Transgenic model evaluation) (Listed As: Transgenic model evaluation (Di(2-ethylhexyl) phthalate))	117-81-7	55	*
Di(p-ethylphenyl)dichloroethane	72-56-0	43	16
Diethyl phthalate	84-66-2	43	16
Diethyl phthalate/dimethyl phthalate	DIETH/DIMETH	43	16
N,N'-Diethylthiourea	105-55-5	43	16
@ 1,2-Difluoro-1,1,2,2-tetrachloroethane (Halogenated ethanes CS) (Listed As: Halogenated ethanes CS (1,2-Difluoro-1,1,2,2-tetrachloroethane))	76-12-0	38	16
Diglycidyl resorcinol ether (DGRE)	101-90-6	43	16
3,4-Dihydrocoumarin	119-84-6	38	16
3,4-Dihydrocoumarin	119-84-6	43	16
1,2-Dihydro-2,2,4-trimethylquinoline (monomer)	147-47-7	38	16
1,2-Dihydro-2,2,4-trimethylquinoline (monomer)	147-47-7	43	16
1,2-Dihydro-2,2,4-trimethylquinoline (monomer)	147-47-7	38	16
1,2-Dihydro-2,2,4-trimethylquinoline (monomer)	147-47-7	43	16
1,2-Dihydro-2,2,4-trimethylquinoline (polymer)	26780-96-1	52	*
Diisopropylcarbodiimide	693-13-0	38	16
Diisopropylcarbodiimide	693-13-0	36	16
Diisopropylcarbodiimide	693-13-0	36	16
Diisopropylcarbodiimide	693-13-0	43	16
Dimethoate	60-51-5	43	16
Dimethoxane	828-00-2	43	16
2,4-Dimethoxyaniline hydrochloride	54150-69-5	43	16
3,3'-Dimethoxybenzidine dihydrochloride	20325-40-0	43	16

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3,3'-Dimethoxybenzidine-4,4'-diisocyanate	91-93-0	43	16
Dimethylamine Borane	74-94-2	33	5
Dimethylaminopropyl chloride, hydrochloride	5407-04-5	52	*
Dimethylaminopropyl chloride, hydrochloride	5407-04-5	38	16
N,N-Dimethylaniline	121-69-7	43	16
@ 7,12-Dimethylbenz(A)anthracene (DMBA) (Listed As: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG))	INIT/PROM	44	16
@ 7,12-Dimethylbenz(A)anthracene (DMBA) (Listed As: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG))	INIT/PROM	44	16
@ 7,12-Dimethylbenz(A)anthracene (DMBA) (Listed As: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG))	INIT/PROM	44	16
3,3'-Dimethylbenzidine dihydrochloride	612-82-8	43	16
Dimethylcarbamoyl chloride	79-44-7	49	17
Dimethylformamide	68-12-2		16
Dimethyl hydrazine (DMH)	57-14-7	49	17
1,2-Dimethylhydrazine 2HCl	306-37-6	49	17
Dimethyl hydrogen phosphite	868-85-9	43	16
Dimethyl methylphosphonate	756-79-6	43	16
Dimethyl morpholinophosphoramidate	597-25-1	43	16
Dimethyl terephthalate	120-61-6	43	16
N,N-Dimethyl-p-toluidine	99-97-8	35	10
N,N-Dimethyl-p-toluidine	99-97-8	52	*
N,N-Dimethyl-p-toluidine	99-97-8	43	16
Dimethylvinyl chloride (DMVC)	513-37-1	43	16
2,2'-Dimorpholinodiethyl Ether	6425-39-4	33	5
2,4-Dinitrotoluene	121-14-2	43	16
1,4-Dioxane	123-91-1	43	16
Dioxathion	78-34-2	43	16
@ Dioxin mixture (Toxic equivalency factor evaluation) (Listed As: Toxic equivalency factor evaluation (Dioxin mixture))	TEFDIOXINMIX	48	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 (Listed As: Bisphenol S)	80-09-1	33	5
Dipropylene glycol	25265-71-8	38	16
Dipropylene glycol	25265-71-8	43	16
Dipropylene glycol phenyl ether	51730-94-0	32	4
2,5-Dithiobiurea	142-46-1	43	16
Divinylbenzene	1321-74-0	52	*
Divinylbenzene	1321-74-0	43	16
@ DMBA + EMF init prom (Listed As: Magnetic fields + DMBA initiation promotion)	EMF+DMBA	38	16

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CHEMICAL NAME	CASRN	PAGE	REF
@ DMBA/TPA/BPO/MNNG (Listed As: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG))	INIT/PROM	44	16
@ DMBA/TPA/BPO/MNNG (Listed As: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG))	INIT/PROM	44	16
@ DMBA/TPA/BPO/MNNG (Listed As: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG))	INIT/PROM	44	16
@ DMDEE (Listed As: 2,2'-Dimorpholinodiethyl Ether)	6425-39-4	33	5
@ DMVC (Listed As: Dimethylvinyl chloride (DMVC))	513-37-1	43	16
@ DON (Listed As: Deoxynivalenol)	51481-10-8	32	2
Dong quai (Angelica sinensis root extract)	299184-76-2	32	2
Doxylamine	469-21-6	43	16
Phenolic Benzotriazoles (Drometrizole)	2440-22-4	33	5
@ EDTA (Listed As: Trisodium ethylenediaminetetraacetate trihydrate (EDTA))	150-38-9	49	16
@ EGMBE (Listed As: 2-Butoxyethanol (ethylene glycol monobutyl ether))	111-76-2	37	16
@ EGMBE (Listed As: 2-Butoxyethanol (ethylene glycol monobutyl ether))	111-76-2	37	16
@ EGMBE (Listed As: 2-Butoxyethanol (ethylene glycol monobutyl ether))	111-76-2	41	16
@ EGMEE (Listed As: Ethylene glycol monoethyl ether (EGMEE))	110-80-5	38	16
@ EGMEE (Listed As: Ethylene glycol monoethyl ether (EGMEE))	110-80-5	38	16
@ EGMME (Listed As: Ethylene Glycol Monomethyl Ether (EGMME))	109-86-4	38	16
@ EGMME (Listed As: Ethylene Glycol Monomethyl Ether (EGMME))	109-86-4	38	16
Elmiron (sodium pentosanpolysulfate)	37319-17-8	43	16
Elmiron (sodium pentosanpolysulfate)	37319-17-8	38	16
Emetine hydrochloride	316-42-7	43	16
@ EMF + DMBA init prom (Listed As: Magnetic fields + DMBA initiation promotion)	EMF+DMBA	38	16
Emodin	518-82-1	43	16
Endocrine disruptor (Ethinyl estradiol)	57-63-6	43	16
Endocrine disruptor (Ethinyl estradiol)	57-63-6	43	16

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Fish Project 1 (Nitromethane)	75-52-5	44	16
Fish Project 1 (Nitromethane)	75-52-5	44	16
Fish project 1 (1,2,3-Trichloropropane)	96-18-4	44	16
Fish project 1 (1,2,3-Trichloropropane)	96-18-4	44	16
@ Flame Retardant 1 (Listed As: Triphenyl Phosphate)	115-86-6	56	*
@ Flame Retardant 1 (Listed As: Triphenyl Phosphate)	115-86-6	34	5
@ Flame Retardant 1 (Listed As: 2-Ethylhexyl Diphenyl Phosphate)	1241-94-7	52	*
@ Flame Retardant 1 (Listed As: Tricresyl Phosphate)	1330-78-5	56	*
@ Flame Retardant 1 (Listed As: Tricresyl Phosphate)	1330-78-5	32	2
@ Flame Retardant 1 (Listed As: Tricresyl Phosphate)	1330-78-5	56	*
@ Flame Retardant 1 (Listed As: Tricresyl Phosphate)	1330-78-5	48	16
@ Flame Retardant 1 (Listed As: Isodecyl Diphenyl Phosphate)	29761-21-5	53	*
@ Flame Retardant 1 (Listed As: tert-Butylphenyl Diphenyl Phosphate)	56803-37-3	52	*
@ Flame Retardant 1 (Listed As: tert-Butylphenyl Diphenyl Phosphate)	56803-37-3	32	2
@ Flame Retardant 1 (Listed As: Isopropylated Phenol Phosphate)	68937-41-7	33	5
@ Flame Retardant 1 (Listed As: Isopropylated Phenol Phosphate)	68937-41-7	53	*
@ Flame Retardant 2 (Listed As: Decabromodiphenyl Ether)	1163-19-5	33	5
@ Flame Retardant 2 (Listed As: Decabromodiphenyl Ether)	1163-19-5	42	16
@ Flame Retardant 2 (Listed As: 2,2',4,4'-Tetrabromodiphenyl Ether)	5436-43-1	54	*
@ Flame Retardant 2 (Listed As: 2,2',4,4'-Tetrabromodiphenyl Ether)	5436-43-1	32	2
@ Flame Retardant 2 (Listed As: 2,2',4,4'-Tetrabromodiphenyl Ether)	5436-43-1	54	*
@ Flame Retardant 2 (Listed As: 2,2',4,4'-Tetrabromodiphenyl Ether)	5436-43-1	33	5
@ Flame Retardant 2 (Listed As: Tetrabromobisphenol A-bis(2,3-dibromopropyl ether))	21850-44-2	32	3

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CHEMICAL NAME	CASRN	PAGE	REF
@ Flame Retardant 2 (Listed As: Tetrabromobisphenol A-bis(2,3-dibromopropyl ether))	21850-44-2	35	12
@ Flame Retardant 2 (Listed As: 1,3,5,7,9,11-Hexabromocyclododecane)	25637-99-4	33	5
@ Flame Retardant 2 (Listed As: Bis(2-ethylhexyl) tetrabromophthalate)	26040-51-7	33	5
@ Flame Retardant 2 (Listed As: 1,2-Bis(2,4,6-tribromophenoxy)ethane)	37853-59-1	33	5
@ Flame Retardant 2 (Listed As: Hexachlorocyclopentadienyl-dibromocyclooctane)	51936-55-1	33	5
@ Flame Retardant 2 (Listed As: 1,2-bis(pentabromophenyl)ethane)	84852-53-9	33	5
@ Flame Retardant 2 (Listed As: 2-ethylhexyl-2,3,4,5-tetrabromobenzoate)	183658-27-7	33	5
@ Flaxseed oil + melatonin (Prevention 1) (Listed As: Prevention 1 (Flaxseed oil + melatonin))	FLAXSEED+MEL	54	*
@ Flaxseed oil (Prevention 1) (Listed As: Prevention 1 (Flaxseed oil))	8001-26-1	54	*
Fluometuron	2164-17-2	44	16
Fluorotelomer Alcohol 8+2	678-39-7	32	3
Flusilazole	85509-19-9	52	*
Flutamide	13311-84-7	52	*
Formaldehyde	50-00-0	52	*
Formaldehyde	50-00-0	52	*
Formamide	75-12-7	38	16
Formamide	75-12-7	44	16
Formic acid	64-18-6	38	16
Fumonisin B1	116355-83-0		16
Fumonisin B1	116355-83-0	44	16
Furan	110-00-9	50	17
Furan	110-00-9	33	5
Furan	110-00-9	44	16
Furfural	98-01-1	44	16
Furfuryl alcohol	98-00-0	38	16
Furfuryl alcohol	98-00-0	44	16
@ Furfuryl alcohol (Transgenic LECM) (Listed As: Transgenic LECM (Furfuryl alcohol))	98-00-0	55	*
Furosemide	54-31-9	44	16
Gallium arsenide	1303-00-0	38	16
Gallium arsenide	1303-00-0	44	16
Gallium oxide	12024-21-4	52	*
Garcinia Cambogia Extract	90045-23-1	33	5
@ GCE (Listed As: Garcinia Cambogia Extract)	90045-23-1	33	5
@ Gemfibrozil (Peroxisome project) (Listed As: Peroxisome project (Gemfibrozil))	25812-30-0	54	*

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@ Genistein (Endocrine disruptor) (Listed As: Endocrine disruptor (Genistein))	446-72-0	43	16
@ Gentian violet (Listed As: Hexamethyl-p-rosaniline chloride)	548-62-9	44	16
@ Gentian violet (Listed As: Hexamethyl-p-rosaniline chloride)	548-62-9	44	16
Geranyl acetate	105-87-3	44	16
Ginkgo biloba extract	90045-36-6	44	16
Ginkgo biloba extract	90045-36-6	33	5
Ginseng	50647-08-0	44	16
Ginseng	50647-08-0	33	5
Glucosamine	3416-24-8	52	*
Glucosamine Hydrochloride + Chondroitin Sulfate	GLUCOSCHONDN	53	*
Glutaraldehyde	111-30-8	38	16
Glutaraldehyde	111-30-8	44	16
Glycidamide	5694-00-8	44	16
Glycidol	556-52-5	44	16
@ Glycidol (Transgenic model evaluation II) (Listed As: Transgenic model evaluation II (Glycidol))	556-52-5	36	16
@ Glycol (Listed As: Polysorbate 80 (glycol))	9005-65-6	47	16
Glyoxal	107-22-2	53	*
Glyphosate	1071-83-6	38	16
Glyphosate	1071-83-6	38	16
Goldenseal extract	84603-60-1	33	5
Goldenseal root powder	GOLDENSEALRT	38	16
Goldenseal root powder	GOLDENSEALRT	44	16
@ Green, Phthalocyanine (Listed As: C.I. Phthalocyanine green)	1328-53-6	52	*
Green Tea Extract	GREENTEAEXTR	33	5
Green Tea Extract	GREENTEAEXTR	44	16
Guanazole	1455-77-2	50	17
Guar gum	9000-30-0	44	16
Gum Arabic	9000-01-5	44	16
Gum Guggul Extract	GUMGUGGULEXT	53	*
Halogenated ethanes CS (1,2-Dichloro-1,1-difluoroethane)	1649-08-7	38	16
Halogenated ethanes CS (1,2-Difluoro-1,1,2,2-tetrachloroethane)	76-12-0	38	16
Halogenated ethanes CS (Hexachloroethane)	67-72-1	38	16
Halogenated ethanes CS (Pentabromoethane)	75-95-6	38	16
Halogenated ethanes CS (Pentachloroethane)	76-01-7	38	16
Halogenated ethanes CS (1,1,1,2-Tetrabromoethane)	630-16-0	38	16
Halogenated ethanes CS (1,1,2,2-Tetrabromoethane)	79-27-6	38	16
Halogenated ethanes CS (1,1,1,2-Tetrachloroethane)	630-20-6	38	16
Halogenated ethanes CS (1,1,2,2-Tetrachloroethane)	79-34-5	38	16

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Halogenated ethanes CS (1,1,1-Trichloroethane)	71-55-6	38	16
Halogenated ethanes CS (1,1,1-Trichloro-2,2,2-trifluoroethane)	354-58-5	38	16
@ Harness (R) (Listed As: Acetochlor)	34256-82-1	51	*
HC Blue 1	2784-94-3	44	16
HC Blue 2	33229-34-4	44	16
HC Red 3	2871-01-4	44	16
HC Yellow 4	59820-43-8	44	16
Heptachlor	76-44-8	44	16
1,3,5,7,9,11-Hexabromocyclododecane	25637-99-4	33	5
2,2',4,4',5,5'-Hexabromodiphenyl ether (PBDE 153)	68631-49-2	32	2
Hexachlorobenzene	118-74-1	33	5
Hexachlorobenzene	118-74-1	35	14
@ 2,2'-4,4',5,5'-hexachlorobiphenyl (PCB 153) (Toxic equivalency factor evaluation) (Listed As: Toxic equivalency factor evaluation (PCB 153- 2,2'-4,4',5,5'-hexachlorobiphenyl))	35065-27-1	48	16
Hexachloro-1,3-butadiene	87-68-3	38	16
Hexachlorocyclopentadiene	77-47-4	44	16
Hexachlorocyclopentadienyl-dibromocyclooctane	51936-55-1	33	5
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	57653-85-7	44	16
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	57653-85-7	44	16
Hexachloroethane	67-72-1	44	16
Hexachloroethane	67-72-1	44	16
@ Hexachloroethane (Halogenated ethanes CS) (Listed As: Halogenated ethanes CS (Hexachloroethane))	67-72-1	38	16
Hexachlorophene	70-30-4	44	16
2,4-Hexadienal	142-83-6	38	16
2,4-Hexadienal	142-83-6	44	16
Hexamethyl-p-rosaniline chloride	548-62-9	44	16
Hexamethyl-p-rosaniline chloride	548-62-9	44	16
Hexanamide	628-02-4	50	17
1,6-Hexanediamine dihydrochloride	6055-52-3	38	16
1,6-Hexanediamine dihydrochloride	6055-52-3	38	16
n-Hexane	110-54-3	38	16
4-Hexylresorcinol	136-77-6	44	16
@ HMB (Listed As: 2-Hydroxy-4-methoxybenzophenone)	131-57-7	35	13
@ HMB (Listed As: 2-Hydroxy-4-methoxybenzophenone)	131-57-7	38	16
@ HMB (Listed As: 2-Hydroxy-4-methoxybenzophenone)	131-57-7	38	16
@ HMB (Listed As: 2-Hydroxy-4-methoxybenzophenone)	131-57-7	38	16

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@ Methoxyethanol (Listed As: NTP-88 diet study (EGMME))	DIET88+EGMME	53	*
2-Methoxy-4-nitroaniline	97-52-9	53	*
8-Methoxypsoralen	298-81-7	45	16
4-(6-Methyl-2-benzothiazolyl)-benzenamine	92-36-4	53	*
alpha-Methylbenzyl alcohol	98-85-1	45	16
Methyl bromide	74-83-9	39	16
Methyl bromide	74-83-9	45	16
Methyl bromide	74-83-9	39	16
Methyl carbamate	598-55-0	45	16
Methyl CCNU	13909-09-6	50	17
@ Methyl chloroform (Listed As: 1,1,1-Trichloroethane)	71-55-6	48	16
@ Methyl chloroform (Listed As: 1,1,1-Trichloroethane)	71-55-6	39	16
Methyl coumarin	92-48-8	53	*
4-Methylcyclohexanemethanol	34885-03-5	33	5
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	39	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	39	16
Methyl ethyl ketoxime	96-29-7	39	16
Methyleugenol	93-15-2	33	5
Methyleugenol	93-15-2	39	16
Methyleugenol	93-15-2	45	16
Methyleugenol (TGMX rat liver evaluation)	93-15-2	53	*
2-Methylimidazole	693-98-1	39	16
2-Methylimidazole	693-98-1	45	16
4-Methylimidazole	822-36-6	39	16
4-Methylimidazole	822-36-6	45	16
Methyl isobutyl ketone	108-10-1	45	16
Methyl isocyanate	624-83-9	50	17
6-Methylmercaptopurine ribonucleoside	342-69-8	50	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	50	17
@ 1-BUTANONE, 4-(METHYLNITROSOAMINO)-1-3-PYRIDINYL)- (9CI) (Listed As: Ozone/NNK)	OZONNNKCOMB	46	16
N-Methylolacrylamide	924-42-5	45	16
Methyl parathion	298-00-0	45	16

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Methylphenidate hydrochloride	298-59-9	39	16
Methylphenidate hydrochloride	298-59-9	45	16
@ Methylphenidate hydrochloride (Transgenic model evaluation) (Listed As: Transgenic model evaluation (Methylphenidate hydrochloride))	298-59-9	56	*
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
Methyl vinyl ketone	78-94-4	53	*
@ N-Methyl-N'-nitro-N-nitrosoguanidine (MNNG) (Listed As: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG))	INIT/PROM	44	16
@ N-Methyl-N'-nitro-N-nitrosoguanidine (MNNG) (Listed As: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG))	INIT/PROM	44	16
@ N-Methyl-N'-nitro-N-nitrosoguanidine (MNNG) (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	5
Microcystin-LA (TGMX)	96180-79-9	53	*
Microcystin-LR (TGMX)	101043-37-2	53	*
Microcystin mixture (TGMX)	MICROCYSTNMX	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	50	17
Molybdenum trioxide	1313-27-5	39	16
Molybdenum trioxide	1313-27-5	45	16
Monochloroacetic acid	79-11-8	45	16
Monuron	150-68-5	45	16
@ 8-MOP (Listed As: 8-Methoxypsoralen)	298-81-7	45	16
Mouse ageing study	MOUSEAGE	50	17
@ MVK (Listed As: Methyl vinyl ketone)	78-94-4	53	*
@ MX (Listed As: 3-Chloro-4-(dichloromethyl)-5-hydroxy-2(5H)-furanone(MX))	77439-76-0	52	*
beta-Myrcene	123-35-3	45	16
Myristicin	607-91-0	35	12
Nalidixic acid	389-08-2	45	16
Nanoscale Material (Fullerene C60 18 microns)	99685-96-8	32	3
Nanoscale material (Fullerene-C60 1 micron)	99685-96-8	35	12
Nanoscale Material (Fullerene C60 200 nanometers)	99685-96-8	32	3

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Nanoscale material (Quantum dots)	QUANTUMDOTS	53	*
Nanoscale material (Rutile titanium dioxide)	1317-80-2	53	*
Nanoscale Silver	7440-22-4	33	5
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 (Listed As: N-Butylbenzenesulfonamide)	3622-84-2	33	5
@ NBBS (Listed As: N-Butylbenzenesulfonamide)	3622-84-2	32	3
@ NBPC (Listed As: Ionic Liquid: N-Butylpyridinium Chloride)	1124-64-7	33	5
NCT/DERT standardization experiment (APAP & AMAP)	NCTSTANDARD	53	*
@ Nevirex (R) (Listed As: Acetochlor)	34256-82-1	51	*
Nickel (II) oxide	1313-99-1	46	16
Nickel sulfate hexahydrate	10101-97-0	46	16
Nickel subsulfide	12035-72-2	46	16
Nithiazide	139-94-6	46	16
Nitrilotriacetic acid (NTA)	139-13-9	46	16
Nitrilotriacetic acid trisodium monohydrate	18662-53-8	46	16
Nitrilotriacetic acid trisodium monohydrate	18662-53-8	46	16
5-Nitroacenaphthene	602-87-9	46	16
3-Nitro-p-acetophenetide	1777-84-0	46	16
p-Nitroaniline	100-01-6		16
p-Nitroaniline	100-01-6	46	16
5-Nitro-o-anisidine	99-59-2	46	16
o-Nitroanisole	91-23-6		16
o-Nitroanisole	91-23-6	46	16
4-Nitroanthranilic acid	619-17-0	46	16
Nitrobenzene	98-95-3	53	*
6-Nitrobenzimidazole	94-52-0	46	16
m-Nitrobenzoic acid	121-92-6	53	*
p-Nitrobenzoic acid	62-23-7	39	16
p-Nitrobenzoic acid	62-23-7	46	16
Nitrofen	1836-75-5	46	16
Nitrofen	1836-75-5	46	16
Nitrofurantoin	67-20-9	46	16
Nitrofurazone	59-87-0	46	16
Nitrofurazone	59-87-0	50	17
Nitromethane	75-52-5	46	16
1-Nitronaphthalene	86-57-7	46	16
p-Nitrophenol	100-02-7	46	16
2-Nitro-p-phenylenediamine	5307-14-2	46	16
4-Nitro-o-phenylenediamine	99-56-9	46	16
5-(4-Nitrophenyl)-2,4-pentadien-1-al (NPPD)	2608-48-2	53	*

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5-(4-Nitrophenyl)-2,4-pentadien-1-al (NPPD)	2608-48-2	53	*
3-Nitropropionic acid	504-88-1	46	16
1-Nitropyrene	5522-43-0	39	16
N-Nitrosodiethanolamine	1116-54-7	53	*
N-Nitrosodimethylamine (TGMX rat liver evaluation)	62-75-9	53	*
N-Nitrosodiphenylamine	86-30-6	46	16
p-Nitrosodiphenylamine	156-10-5	46	16
beta-Nitrostyrene	102-96-5	46	16
m-Nitrotoluene	99-08-1	39	16
o-Nitrotoluene	88-72-2	39	16
o-Nitrotoluene	88-72-2	39	16
o-Nitrotoluene	88-72-2	46	16
p-Nitrotoluene	99-99-0	53	*
p-Nitrotoluene	99-99-0	39	16
p-Nitrotoluene	99-99-0	46	16
5-Nitro-o-toluidine	99-55-8	46	16
@ NNK (Listed As: Ozone/NNK)	OZONNNKCOMB	46	16
@ NTA (Listed As: Nitrilotriacetic acid (NTA))	139-13-9	46	16
NTP-2000 diet	DIET2000	53	*
NTP 90 diet study	DIET90	50	17
NTP 91/92 diet study	DIET9192	50	17
NTP-88 diet study (EGMBE)	DIET88+EGMBE	53	*
NTP-88 diet study (EGMEE)	DIET88+EGMEE	53	*
NTP-88 diet study (EGMME)	DIET88+EGMME	53	*
NTP-88 diet study (m-Nitrotoluene)	DIET88+MNITR	53	*
NTP-88 diet study (o-Nitrotoluene)	DIET88+ONITR	53	*
NTP-88 diet study (p-Nitrotoluene)	DIET88+PNITR	53	*
Ochratoxin A	303-47-9	46	16
Phenolic Benzotriazoles (Octrizole)	3147-75-9	33	5
Oleic acid diethanolamine condensate	93-83-4	46	16
@ Oleic acid diethanolamine condensate (transgenic LECM) (Listed As: Transgenic LECM (Oleic acid diethanolamine condensate))	93-83-4	55	*
@ Oleic acid diethanolamine condensate (transgenic LECM) (Listed As: Transgenic LECM (Oleic acid diethanolamine condensate))	93-83-4	55	*
@ Orange 10, C.I.Acid (Listed As: C.I. Acid Orange 10)	1936-15-8	42	16
@ Orange 3, C.I. Acid (Listed As: C.I. Acid Orange 3)	6373-74-6	42	16
Oxazepam	604-75-1	46	16
Oxazepam	604-75-1	46	16
4,4'-Oxydianiline	101-80-4	46	16
Oxymetholone	434-07-1	53	*
Oxymetholone	434-07-1	46	16

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Peroxisome project (Dibutyl phthalate)	84-74-2	53	*
Peroxisome project (2,4-Dichlorophenoxyacetic acid)	94-75-7	54	*
Peroxisome project (Gemfibrozil)	25812-30-0	54	*
Peroxisome project (WY-14643)	50892-23-4	39	16
Pesticide/fertilizer contamination--mixture 2	PESTFERTMIX2	39	16
Pesticide/fertilizer contamination--mixture 3	PESTFERTMIX3	39	16
@ PETA (Listed As: Pentaerythritol triacrylate)	3524-68-3	36	16
@ PETA (Listed As: Pentaerythritol triacrylate)	3524-68-3	36	16
@ PFDA (Listed As: Perfluorodecanoic Acid)	335-76-2	34	6
@ PFNA (Listed As: Perfluorononanoic Acid)	375-95-1	34	6
@ PGTBE (Listed As: Propylene glycol mono-t-butyl ether)	57018-52-7	47	16
Phenazopyridine hydrochloride	136-40-3	46	16
Phenesterin	3546-10-9	46	16
Phenformin hydrochloride	834-28-6	46	16
Phenobarbital	50-06-6	54	*
Phenol	108-95-2	46	16
Phenolic Benzotriazoles (2-(2H-Benzotriazol-2-yl)phenol)	10096-91-0	33	5
Phenolic Benzotriazoles (2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylpropyl)phenol)	25973-55-1	33	5
Phenolic Benzotriazoles (2-(2H-benzotriazol-2-yl)-4,6-bis(1-methyl-1-phenylethyl)phenol)	70321-86-7	33	5
Phenolic Benzotriazoles (2-(5-Chloro-2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl)phenol)	3864-99-1	33	5
Phenolic Benzotriazoles (Bumetrizole)	3896-11-5	33	5
Phenolphthalein	77-09-8	39	16
Phenolphthalein	77-09-8	46	16
@ Phenolphthalein (Transgenic model evaluation) (Listed As: Transgenic model evaluation (Phenolphthalein))	77-09-8	56	*
@ Phenolphthalein (Transgenic model evaluation II) (Listed As: Transgenic model evaluation II (Phenolphthalein))	77-09-8	36	16
Phenoxybenzamine hydrochloride	63-92-3	46	16
Phenylbutazone	50-33-9	46	16
p-Phenylenediamine dihydrochloride	624-18-0	46	16
Phenylephrine hydrochloride	61-76-7	46	16
1-Phenyl-3-methyl-5-pyrazolone	89-25-8	46	16
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@ Phenytoin (Listed As: 5,5-Diphenylhydantoin (phenytoin))	57-41-0	43	16
@ Phorbol myristate acetate (Listed As: Tetradecanoyl phorbol acetate (TPA))	16561-29-8	54	*
Phosphamidon	13171-21-6	46	16
Phosphine	7803-51-2	54	*
Photodieldrin	13366-73-9	46	16
ortho-Phthalaldehyde	643-79-8	35	12
Phthalamide	88-96-0	46	16
Phthalic anhydride	85-44-9	46	16
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Piperonyl butoxide	51-03-6	47	16
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Polybrominated biphenyl mixture (Firemaster FF-1)	67774-32-7	47	16
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Polyurethane	9009-54-5	50	17
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Prevention 2 (Melatonin)	73-31-4	54	*
Prevention 2 (Silymarin)	65666-07-1	54	*
Prevention 2 (Silymarin + melatonin)	SILYMARN+MEL	54	*
Prevention 3 (Melatonin)	73-31-4	54	*
Prevention 6 (low isoflavone soy protein powder)	ISOFLAVSOYPT	54	*
Prevention 4 (Curcumin)	458-37-7	54	*
Prevention 7 (feed controls)	PREVENTION7	54	*
Prevention 1 (Flaxseed oil)	8001-26-1	54	*
Prevention 1 (Flaxseed oil + melatonin)	FLAXSEED+MEL	54	*
Prevention 4 (Indole-3-carbinol)	700-06-1	54	*
Prevention 6 (isoflavone concentrate)	ISOFLAVCONCN	54	*
Prevention 4 (Melatonin)	73-31-4	54	*
Prevention 5 (Melatonin)	73-31-4	54	*
Prevention 4 (Melatonin + curcumin)	MEL+CURCUMIN	54	*
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Prevention 10 (Soy isoflavone concentrate)	PREVENTION10	54	*
Primidone (primaclone)	125-33-7	47	16
Probenecid	57-66-9	47	16
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Procarbazine hydrochloride	366-70-1	47	16
Proflavin hydrochloride	952-23-8	47	16

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@ Propylene dichloride (Listed As: 1,2-Dichloropropane (propylene dichloride))	78-87-5	43	16
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Propylene glycol phenyl ether	770-35-4	33	5
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Propyl gallate	121-79-9	47	16
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Pyridine	110-86-1	47	16
Pyridine	110-86-1	47	16
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@ Pyridine (Transgenic LECM) (Listed As: Transgenic LECM (Pyridine))	110-86-1	55	*
@ Pyridine (Transgenic LECM) (Listed As: Transgenic LECM (Pyridine))	110-86-1	55	*
Pyrilamine	91-84-9	47	16
Pyrimethamine	58-14-0	47	16
Pyrogallol	87-66-1	47	16
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QT drugs (diltiazem hydrochloride)	33286-22-5	54	*
QT drugs (Loratadine)	79794-75-5	54	*
QT drugs (Lovastatin)	75330-75-5	54	*
QT drugs (sotalol hydrochloride)	959-24-0	54	*
QT drugs (terfenadine)	50679-08-8	54	*
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@ Red 114, C.I. Acid (Listed As: C.I. Acid Red 114)	6459-94-5	42	16
@ Red 14, C.I. Acid (Listed As: C.I. Acid Red 14)	3567-69-9	42	16
@ Red 9, C.I. Acid (Listed As: C.I. Basic Red 9 Monohydrochloride)	569-61-9	42	16
@ Red 23, C.I. Pigment (Listed As: C.I. Pigment Red 23)	6471-49-4	42	16
@ Red 3, C.I. Pigment (Listed As: C.I. Pigment Red 3)	2425-85-6	42	16
@ Red Dog Mine Ore (Alaska) (Listed As: Lead ores)	LEADORES	53	*
@ Red 3, HC (Listed As: HC Red 3)	2871-01-4	44	16
@ Red No. 9, D&C (Listed As: D&C Red No. 9)	5160-02-1	42	16

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@ Resorcinol (Transgenic model evaluation) (Listed As: Transgenic model evaluation (Resorcinol))	108-46-3	56	*
@ Resorcinol (Transgenic model evaluation) (Listed As: Transgenic model evaluation (Resorcinol))	108-46-3	56	*
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Retinoid project 1	RETINOID1	54	*
Retinoid project 3 (Retinol acetate)	127-47-9	54	*
Retinoid project 4 (4-(Hydroxyphenyl)retinamide)	65646-68-6	54	*
Retinoid project 5 (4-(Hydroxyphenyl)retinamide)	65646-68-6	54	*
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Retinoid project 3 (Arotinoid)	125533-88-2	54	*
Retinoid project 5 (Arotinoid)	125533-88-2	54	*
Retinoid project 6 (4-HPR)	65646-68-6	54	*
All-trans-retinyl palmitate	79-81-2	47	16
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Retroviral vectors	RETROVIRVECT	54	*
Retroviral vectors	RETROVIRVECT	54	*
Retroviral vectors	RETROVIRVECT	54	*
Rhodamine 6G	989-38-8	47	16
@ Rhothane (TDE) (Listed As: Tetrachlorodiphenylethane)	72-54-8	48	16
Riddelliine	23246-96-0	39	16
Riddelliine	23246-96-0	47	16
@ Ritalin hydrochloride (Listed As: Methylphenidate hydrochloride)	298-59-9	39	16
@ Ritalin hydrochloride (Listed As: Methylphenidate hydrochloride)	298-59-9	45	16
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Rotenone	83-79-4	47	16
@ Rotenone (Transgenic model evaluation) (Listed As: Transgenic model evaluation (Rotenone))	83-79-4	56	*
@ Rotenone (Transgenic model evaluation) (Listed As: Transgenic model evaluation (Rotenone))	83-79-4	56	*
@ Roundup® (Listed As: Glyphosate)	1071-83-6	38	16
@ Roundup® (Listed As: Glyphosate)	1071-83-6	38	16
Roxarsone	121-19-7	47	16
Safflower oil	8001-23-8	47	16
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Salicylazosulfapyridine	599-79-1	47	16

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@ Salicylic acid (alpha/beta Hydroxy acids) (Listed As: alpha/beta Hydroxy acids (glycolic acid, salicylic acid))	HYDROXGLYSAL	40	16
Scopolamine hydrobromide trihydrate	6533-68-2	39	16
Scopolamine hydrobromide trihydrate	6533-68-2	54	*
Scopolamine hydrobromide trihydrate	6533-68-2	47	16
@ Selenate, Sodium (Listed As: Sodium selenate)	13410-01-0	39	16
@ Selenite, Sodium (Listed As: Sodium selenite)	10102-18-8	39	16
Selenium sulfide	7446-34-6	47	16
Selenium sulfide	7446-34-6	47	16
Selsun	EMTDP-74	47	16
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Senna (powdered)	8013-11-4	39	16
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Serotype 2 Adeno-associated Viral Vector rAAV2rapahEpo	AAVIRAAVHEPO	35	14
Serotype 2 Adeno-associated Viral Vector hAQP1 (rAAV2hAQP1)	AAV2HAQP1	35	12
Silica, crystalline - quartz	14808-60-7	54	*
Silica, crystalline - quartz	14808-60-7	54	*
Silica, crystalline - quartz	14808-60-7	54	*
@ Silymarin + melatonin (Prevention 2) (Listed As: Prevention 2 (Silymarin + melatonin))	SILYMARN+MEL	54	*
@ SILYMARIN (PREVENTION 2) (Listed As: Prevention 2 (Silymarin))	65666-07-1	54	*
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Sodium azide	26628-22-8	47	16
@ Sodium bromate (Water disinfection mode) (Listed As: Water disinfection model (Sodium bromate))	7789-38-0	36	16
@ Sodium bromate (Water disinfection mode) (Listed As: Water disinfection model (Sodium bromate))	7789-38-0	36	16
@ Sodium bromate (Water disinfection mode) (Listed As: Water disinfection model (Sodium bromate))	7789-38-0	36	16
@ Sodium chlorate (Water disinfection byproducts) (Listed As: Water disinfection byproducts (Sodium chlorate))	7775-09-9	49	16
Sodium cyanide	143-33-9		16
Sodium dichromate dihydrate (VI)	7789-12-0	47	16
Sodium dichromate dihydrate (VI)	7789-12-0	39	16
Sodium diethyldithiocarbamate	148-18-5	47	16
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Sodium Tungstate Dihydrate	10213-10-2	35	10
Sodium xylenesulfonate	1300-72-7	39	16
Sodium xylenesulfonate	1300-72-7	47	16
@ Spy Dust (Listed As: 5-(4-Nitrophenyl)-2,4-pentadien-1-al (NPPD))	2608-48-2	53	*
@ Spy Dust (Listed As: 5-(4-Nitrophenyl)-2,4-pentadien-1-al (NPPD))	2608-48-2	53	*
Stachybotrys chartarum	67892-26-6	32	3
Stachybotrys chartarum strain 1 mold (macrocyclic trichothecene chemotype)	STACHYSTRN1	32	3
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Stannous chloride	7772-99-8	47	16
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Streptozotocin	18883-66-4	50	17
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Sulfamethazine	57-68-1	47	16
Sulfisoxazole	127-69-5	47	16
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Sulfolane	126-33-0	34	8
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4,4'-Sulfonyldianiline (Dapsone)	80-08-0	47	16
@ Sunett (Listed As: Transgenic Model Evaluation II (Acesulfame Potassium))	55589-62-3	36	16
Talc	14807-96-6	47	16
Tara gum	39300-88-4	47	16
@ TBA (Listed As: tert-Butyl alcohol)	75-65-0	41	16
@ TBA (Listed As: tert-Butyl alcohol)	75-65-0	37	16
@ TBBC (Listed As: 4,4-Thiobis(6-tert-butyl-m-cresol))	96-69-5	54	*
@ TBBC (Listed As: 4,4-Thiobis(6-tert-butyl-m-cresol))	96-69-5	48	16
@ TBDP (Listed As: tert-Butylphenyl Diphenyl Phosphate)	56803-37-3	52	*
@ TBDP (Listed As: tert-Butylphenyl Diphenyl Phosphate)	56803-37-3	32	2
@ TBE (Listed As: Halogenated ethanes CS (1,1,2,2-Tetrabromoethane))	79-27-6	38	16

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@ 1,1,2,2-Tetrachloroethane (Halogenated ethanes CS) (Listed As: Halogenated ethanes CS (1,1,2,2-Tetrachloroethane))	79-34-5	38	16
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Tetrachloroethylene	127-18-4	48	16
2,3,5,6-Tetrachloro-4-nitroanisole	2438-88-2	48	16
Tetrachlorophthalic anhydride	117-08-8	39	16
Tetrachlorvinphos	961-11-5	48	16
Tetracycline hydrochloride	64-75-5	48	16
Tetradecanoyl phorbol acetate (TPA)	16561-29-8	54	*
@ Tetradecanoylphorbol acetate (TPA) (Listed As: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG))	INIT/PROM	44	16
@ Tetradecanoylphorbol acetate (TPA) (Listed As: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG))	INIT/PROM	44	16
@ Tetradecanoylphorbol acetate (TPA) (Listed As: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG))	INIT/PROM	44	16
@ Tetradecanoyl phorbol acetate (TPA) (Transgenic LECM) (Listed As: Transgenic LECM (Tetradecanoyl phorbol acetate (TPA)))	16561-29-8	55	*
Tetraethylthiuram disulfide	97-77-8	48	16
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Tetrafluoroethylene	116-14-3	48	16
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1-trans-delta-9-Tetrahydrocannabinol	1972-08-3	48	16
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Tetrahydrofuran	109-99-9	39	16
Tetrahydrofuran	109-99-9	48	16
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Tetrakis(hydroxymethyl)phosphonium sulfate	55566-30-8	48	16
Tetralin	119-64-2	48	16
Tetranitromethane	509-14-8	48	16
@ TGMX rat liver evaluation) (Methyleugenol) (Listed As: Methyleugenol (TGMX rat liver evaluation))	93-15-2	53	*
@ TGMX rat liver evaluation (N-Nitrosodimethylamine) (Listed As: N-Nitrosodimethylamine (TGMX rat liver evaluation))	62-75-9	53	*
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Theophylline	58-55-9	39	16
Theophylline	58-55-9	48	16
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beta-Thioguanidine deoxyriboside	789-61-7	48	16
Thiophene	110-02-1	54	*
@ thio-TEPA (Listed As: tris(Aziridinyl)-phosphine sulfide (Thio-TEPA))	52-24-4	48	16
@ THPC (Listed As: Tetrakis(hydroxymethyl)phosphonium chloride)	124-64-1	48	16
@ THPS (Listed As: Tetrakis(hydroxymethyl)phosphonium sulfate)	55566-30-8	48	16
alpha-Thujone	546-80-5	39	16
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alpha/beta Thujone mixture	76231-76-0	39	16
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Titanium dioxide	13463-67-7	48	16
Titanocene dichloride	1271-19-8	48	16
@ TMPTA (Listed As: Trimethylolpropane triacrylate)	15625-89-5	36	16
@ TMPTA (Listed As: Trimethylolpropane triacrylate)	15625-89-5	36	16
@ TMPTA (Listed As: Trimethylolpropane triacrylate)	15625-89-5	48	16
D-alpha-Tocopheryl acetate	58-95-7	54	*
Tolazamide	1156-19-0	48	16
Tolbutamide	64-77-7	48	16
Toluene	108-88-3	48	16
Toluene	108-88-3	39	16
2,6-Toluenediamine dihydrochloride (2,6-diaminotoluene dihydrochloride)	15481-70-6	48	16
2,5-Toluenediamine sulfate	6369-59-1	48	16
2,4- & 2,6-Toluene diisocyanate	26471-62-5	48	16
p-Toluenesulfonamide	70-55-3	39	16
o-Toluidine hydrochloride	636-21-5	48	16
o-Toluidine hydrochloride	636-21-5	39	16
p-Toluidine	106-49-0	35	10
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Toxaphene	8001-35-2	48	16
Toxic equivalency factor evaluation (Dioxin mixture)	TEFDIOXINMIX	48	16
Toxic equivalency factor evaluation (PCB 153- 2,2'-4,4',5,5'-hexachlorobiphenyl)	35065-27-1	48	16
Toxic equivalency factor evaluation ((PCB 126) 3,3',4,4',5-pentachlorobiphenyl)	57465-28-8	48	16
Toxicogenomics study of allylbenzene & propenylbenzene class flavor constituents (TGMX)	TGMXFLAVCLAS	55	*
Transgenic LECM (1-Chloro-2-propanol, technical)	127-00-4	55	*
Transgenic LECM (1-Chloro-2-propanol, technical)	127-00-4	55	*

@ 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

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Alphabetical Index of Chemicals with Reference Location

CHEMICAL NAME	CASRN	PAGE	REF
Tribromomethane	75-25-2	48	16
Tricaprylin	538-23-8	48	16
Trichlorfon	52-68-6	56	*
1,1,1-Trichloroethane	71-55-6	48	16
1,1,1-Trichloroethane	71-55-6	39	16
1,1,2-Trichloroethane	79-00-5	48	16
@ 1,1,1-Trichloroethane (Halogenated ethanes CS) (Listed As: Halogenated ethanes CS (1,1,1-Trichloroethane))	71-55-6	38	16
Trichloroethylene	79-01-6	48	16
Trichloroethylene	79-01-6	48	16
Trichloroethylene	79-01-6	48	16
Trichloroethylene	79-01-6	48	16
Trichloroethylene	79-01-6	56	*
Trichloroethylene	79-01-6	56	*
Trichlorofluoromethane	75-69-4	48	16
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	38	16
Triclocarban	101-20-2	32	3
Triclosan	3380-34-5	56	*
Triclosan	3380-34-5	34	8
Triclosan	3380-34-5	33	5
Tricresyl Phosphate	1330-78-5	56	*
Tricresyl Phosphate	1330-78-5	32	2
Tricresyl Phosphate	1330-78-5	56	*
Tricresyl Phosphate	1330-78-5	48	16
Triethanolamine	102-71-6	56	*
Triethanolamine	102-71-6	56	*
Triethanolamine	102-71-6	56	*
Triethanolamine	102-71-6	48	16
Triethanolamine	102-71-6	48	16
Triethylamine	121-44-8		12
Trifluralin	1582-09-8	48	16
Trimellitic anhydride	552-30-7	56	*
Trimellitic anhydride	552-30-7	56	*
2,4,5-Trimethylaniline	137-17-7	48	16
1,2,4-trimethylbenzene	95-63-6	34	5
Trimethylolpropane triacrylate	15625-89-5	36	16
Trimethylolpropane triacrylate	15625-89-5	36	16
Trimethylolpropane triacrylate	15625-89-5	48	16
Trimethylphosphate	512-56-1	48	16
Trimethylsilyldiazomethane (TMSD)	18107-18-1	34	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	34	5

Alphabetical Index of Chemicals with Reference Location

CHEMICAL NAME	CASRN	PAGE	REF
Triphenyltin hydroxide	76-87-9	48	16
Triprolidine	486-12-4	48	16
tris(Aziridinyl)-phosphine sulfide (Thio-TEPA)	52-24-4	48	16
Tris(2-Chloroethyl) Phosphate	115-96-8	48	16
Tris(Chloropropyl)phosphate	13674-84-5	34	5
Tris(Chloropropyl)phosphate	13674-84-5	34	8
tris(2,3-Dibromopropyl) phosphate	126-72-7	48	16
tris(2-Ethylhexyl)phosphate	78-42-2	49	16
Trisodium ethylenediaminetetraacetate trihydrate (EDTA)	150-38-9	49	16
L-Tryptophan	73-22-3	49	16
Turmeric, oleoresin (curcumin)	8024-37-1	49	16
Uracil mustard	66-75-1	50	17
Urethane	51-79-6	39	16
Urethane	51-79-6	49	16
Urethane + ethanol (combination)	URETHCOMB	39	16
Urethane + ethanol (combination)	URETHCOMB	49	16
Usnea Lichen	USNEALICHEN	34	6
(+)-Usnic Acid	7562-61-0	34	6
Valerian (Valeriana officinalis L.) root extract	8057-49-6	34	5
Vanadium pentoxide	1314-62-1	39	16
Vanadium pentoxide	1314-62-1	49	16
Vanadyl sulfate	27774-13-6	34	5
Vinblastine	865-21-4	50	17
Vincamine	1617-90-9	56	*
Vinclozolin	50471-44-8	56	*
Vincristine	57-22-7	50	17
4-Vinylcyclohexene	100-40-3	49	16
4-Vinyl-1-cyclohexene diepoxide	106-87-6	49	16
Vinylidene Chloride	75-35-4	49	16
Vinylidene Chloride	75-35-4	49	16
Vinylidene fluoride	75-38-7	56	*
Vinyl toluene	25013-15-4	49	16
@ Vitamin C (Listed As: L-Ascorbic acid)	50-81-7	40	16
@ Vitamin E Acetate (Listed As: D-alpha-Tocopheryl acetate)	58-95-7	54	*
Water Damaged Building Mold Mixture	H2ODAMAGEMLD	32	3
Water disinfection byproducts (Bromochloroacetic acid)	5589-96-8	49	16
Water disinfection byproducts (Bromodichloroacetic Acid)	71133-14-7	34	5
Water disinfection byproducts (Bromodichloroacetic Acid)	71133-14-7	56	*
Water disinfection byproducts (Bromodichloroacetic Acid)	71133-14-7	49	16
Water disinfection byproducts (Bromodichloromethane)	75-27-4	56	*
Water disinfection byproducts (Bromodichloromethane)	75-27-4	56	*
Water disinfection byproducts (Bromodichloromethane)	75-27-4	49	16
Water disinfection byproducts (Dibromoacetic acid)	631-64-1	56	*

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Alphabetical Index of Chemicals with Reference Location

CHEMICAL NAME	CASRN	PAGE	REF
Water disinfection byproducts (Dibromoacetic acid)	631-64-1	49	16
Water disinfection byproducts (Dibromoacetonitrile)	3252-43-5	49	16
Water disinfection byproducts (Dichloroacetic acid)	79-43-6	56	*
Water disinfection byproducts (Sodium chlorate)	7775-09-9	49	16
Water disinfection model (Bromodichloromethane)	75-27-4	36	16
Water disinfection model (Bromodichloromethane)	75-27-4	36	16
Water disinfection model (Bromodichloromethane)	75-27-4	36	16
Water disinfection model (Bromodichloromethane)	75-27-4	36	16
Water disinfection model (Bromodichloromethane)	75-27-4	36	16
Water disinfection model (Dichloroacetic acid)	79-43-6	36	16
Water disinfection model (Dichloroacetic acid)	79-43-6	36	16
Water disinfection model (Dichloroacetic acid)	79-43-6	36	16
Water disinfection model (Sodium bromate)	7789-38-0	36	16
Water disinfection model (Sodium bromate)	7789-38-0	36	16
Water disinfection model (Sodium bromate)	7789-38-0	36	16
Welding fumes	STEELWELDFUM	56	*
@ West Fork Mine Ore (Missouri) (Listed As: Lead ores)	LEADORES	53	*
Wollastonite calcium silicates	13983-17-0	50	17
@ WY-14643 (Peroxisome project) (Listed As: Peroxisome project (WY-14643))	50892-23-4	39	16
@ WY-14643 (Transgenic model evaluation) (Listed As: Transgenic model evaluation (WY-14643))	50892-23-4	56	*
@ WY-14643 (Transgenic model evaluation) (Listed As: Transgenic model evaluation (WY-14643))	50892-23-4	56	*
Wyeth 14,643 (WY)	50892-23-4	35	12
Wyeth 14,643 (WY)	50892-23-4	56	*
Xylenes (mixed)	1330-20-7	49	16
2,6-Xylidine	87-62-7	49	16
@ Yellow 12, C.I. Pigment (Listed As: Diarylanilide yellow)	6358-85-6	42	16
@ Yellow 3, C.I. Disperse (Listed As: C.I. Disperse Yellow 3)	2832-40-8	42	16
@ Yellow 14, C.I. Solvent (Listed As: C.I. Solvent Yellow 14)	842-07-9	42	16
@ Yellow 4, C.I. Vat (Listed As: C.I. Vat Yellow 4)	128-66-5	42	16
@ Yellow 4, HC (Listed As: HC Yellow 4)	59820-43-8	44	16
@ Yellow No. 11, D & C (Listed As: D&C Yellow No. 11)	8003-22-3	37	16

Alphabetical Index of Chemicals with Reference Location

CHEMICAL NAME	CASRN	PAGE	REF
@ Yellow No. 11, D & C (Listed As: D&C Yellow No. 11)	8003-22-3	42	16
@ Yellow No. 6, FD & C (Listed As: FD & C Yellow No. 6)	2783-94-0	44	16
Zearalenone	17924-92-4	49	16
Zinc Carbonate, Basic	5263-02-5	35	13
Ziram	137-30-4	49	16

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

Ref No. 2

Chemicals with Project Leader Assigned/Study in Design

CHEMICAL NAME	PRIMARY CAS NUMBER	USE
Aluminum fluoride	7784-18-1	ENVH/SYN
Annatto	1393-63-1	COSM/NATL
Artificial Butter Flavoring Mixture	BUTTERFLAVMX	SYN
BDE Toxicogenomics Study (TGMX)	TGMXBDECLASS	
tert-Butylphenyl Diphenyl Phosphate	56803-37-3	
bis(2-Chloroethoxy)methane	111-91-1	SOLV/SYN
Deoxynivalenol	51481-10-8	COMT/NATL
2,6-Diaminopyridine	141-86-6	INTR/SYN
3-(Dimethylamino)propylamine	109-55-7	DTRG/SYN
Dong quai (Angelica sinensis root extract)	299184-76-2	DIET
2-Ethylhexyl Diphenyl Phosphate	1241-94-7	
2,2',4,4',5,5'-Hexabromodiphenyl ether (PBDE 153)	68631-49-2	FLAM/SYN
Isodecyl Diphenyl Phosphate	29761-21-5	PLAS
Microcystin LR	101043-37-2	ENVH/NATL
Naturally occurring asbestos and related mineral fibers	ASBESTOSFIB	ELEC/N/S
2,2',4,4',5-Pentabromodiphenyl Ether	60348-60-9	ENVH/SYN
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]	32534-81-9	FLAM/SYN
Propyl-4-hydroxybenzoate	94-13-3	FOOD/SYN
2,2',4,4'-Tetrabromodiphenyl Ether	5436-43-1	ENVH/SYN
Tricresyl Phosphate	1330-78-5	FLAM/SYN

Ref No. 3

Chemicals Approved for Toxicology/Carcinogenesis Study

CHEMICAL NAME	PRIMARY CAS NUMBER	USE
Alternaria alternata mold	ALTERNARIA	NATL/NATL
N-Butylbenzenesulfonamide	3622-84-2	PLAS/SYN
Cylindrospermopsin	143545-90-8	ENVH/NATL
Damp Building Mold Mixture	DAMPBLDGMOLD	NATL/NATL
Fluorotelomer Alcohol 8+2	678-39-7	SYN
Nanoscale Material (Fullerene C60 18 microns)	99685-96-8	NANO/N/S
Nanoscale Material (Fullerene C60 200 nanometers)	99685-96-8	NANO
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]	32534-81-9	FLAM/SYN
Stachybotrys chartarum	67892-26-6	NATL
Stachybotrys chartarum strain 1 mold (macrocyclic trichothecene chemotype)	STACHYSTRN1	NATL/NATL
Stachybotrys chartarum strain 2 mold (atranone chemotype)	STACHYSTRN2	NATL/NATL
Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)	21850-44-2	FLAM/SYN
Triclocarban	101-20-2	PEST/SYN
Water Damaged Building Mold Mixture	H2ODAMAGEMLD	NATL/NATL

Ref No. 4

Chemicals Assigned to Laboratory for Toxicology/Carcinogenesis Study

CHEMICAL NAME	PRIMARY CAS NUMBER	USE	ROUTE	SPECIES
Arsenic	7440-38-2	METL/NATL		MY RH HSD
Asbestos, amosite	12172-73-5	NSUL/NATL	INHAL	
Cell Phone Radiation: CDMA	CELLPRADCDMA	N/A		
Cell Phone Radiation: GSM	CELLPRADGSM	N/A		
Dipropylene glycol phenyl ether	51730-94-0	IND/SYN	GAV	HSD
Insertional Mutagenesis - Definitive Vector Study	INSERTMUT3	N/A	IV	M1
Libby Amphibole 2007	LA2007	MINL/NATL	INHAL	

Ref No. 5

Short-Term Exposure Studies in Progress

CHEMICAL NAME	PRIMARY CAS NUMBER	USE	ROUTE	SPECIES	RPD D* START DATE	SUBCHR START DATE
Acrylamide	79-06-1	COMT/SYN	GAV	HSD	04/17A	
Aflatoxin B1 (TGMX)	1162-65-8	LABC/NATL	INHAL	R2		
Aloin	1415-73-2	NATL	WATER	RC		07/15A

* 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* START DATE	SUBCHR START DATE
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	
Bisphenol S	80-09-1	ADHS	FEED	M3	03/17A	
1,2-Bis(2,4,6-tribromophenoxy)ethane	37853-59-1	FLAM	GAV	HSDE	11/16A	
N-Butylbenzenesulfonamide	3622-84-2	PLAS/SYN	FEED	M22	02/14A	
Coumarin	91-64-5	PHAR/NATL	GAV	HSD	04/17A	
Crude MCHM	CRUDEMCHM	IND/SYN	GAV	HSD	09/14A	
Crumbrubber various	CRUMBRUBBERVARIOUS	N/S/SYN		M22	02/17A	
Decabromodiphenyl Ether	1163-19-5	FLAM	GAV	HSDE	11/16A	
Di(2-ethylhexyl) Phthalate	117-81-7	PLAS/SYN	GAV	HSD	03/17A	
Dimethylamine Borane	74-94-2		DERMAL	HSD M22	01/14A	
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	M22 HSD	11/15A	
3-ethyltoluene	620-14-4	LABC	INHAL	M22 HSD	10/15A	
4-ethyltoluene	622-96-8	FUEL	INHAL	R8 M22	08/15A	
Fenofibrate	49562-28-9	PHAR/SYN	GAV	HSD	03/17A	
Furan	110-00-9	DTRG/N/S	GAV	HSD	07/17A	
Garcinia Cambogia Extract	90045-23-1	DIET/NATL	FEED	M22 HSD	04/14A	
Ginkgo biloba extract	90045-36-6	DIET/NATL	GAV	FSAS	12/15A	
Ginseng	50647-08-0	DIET/NATL	GAV	HSD	07/17A	
Goldenseal extract	84603-60-1	NATL/N/S	GAV	FSAS	12/15A	
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	
Phenolic Benzotriazoles (3-(2H-Benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxybenzenepropanoic acid, octyl ester)	84268-23-5	ADHS	GAV	HSD	01/16A	
Ionic Liquid: 1-Butyl-1-methylpyrrolidinium Chloride	479500-35-1	LABC/SYN	WATER	HSD M22		08/13A
Ionic Liquid: N-Butylpyridinium Chloride	1124-64-7	ELEC/SYN	WATER	HSD M22		09/13A
Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride	65039-09-0	IND/SYN	WATER	HSD M22		05/13A
Isopropylated Phenol Phosphate	68937-41-7	FLAM/SYN	FEED	M22	12/14A	
Melamine + Cyanuric Acid combination	MELCYANCOMB	ADHS/SYN	GAV	RC		07/11A
Melamine + Cyanuric Acid combination	MELCYANCOMB	ADHS/SYN	GAV	RC		10/15A
4-Methylcyclohexanemethanol	34885-03-5	IND/SYN	GAV	HSD	09/14A	
Methyleugenol	93-15-2	FOOD/NATL	GAV	HSD	04/17A	
Microbiome	MICROBIOME	NATL	N/A		07/15A	
Milk thistle extract	84604-20-6	DIET/NATL	GAV	HSD	07/17A	
Nanoscale Silver	7440-22-4	TBCO/NATL	GAV	44		09/11A
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	
Perfluorohexane sulfonate potassium salt (PFHSKslt)	3871-99-6	PLAS/SYN	GAV	HSD	02/12A	
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	
Propylene glycol phenyl ether	770-35-4	SOLV/SYN	GAV	HSD	09/14A	
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
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	

* 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* START DATE	SUBCHR START DATE
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 M22	09/14A	04/16A
Water disinfection byproducts (Bromodichloroacetic Acid)	71133-14-7	ENVH/NATL	GAV	HSD	04/17A	

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Ref No. 6

Short-Term Studies Completed: In Review for Further Evaluation

CHEMICAL NAME	PRIMARY CAS NUMBER	USE	ROUTE	SPECIES	RPD D* START DATE	SUBCHR START DATE
Aspergillus versicolor mold	ASPERGILLUSV	NATL/NATL	INHAL	M22		
Ionic Liquid: 1-Butyl-3-methylimidazolium Chloride	79917-90-1	COSM/SYN	WATER	M22 HSD		04/13A
Perfluorobutane sulfonate (PFBS)	375-73-5	IND/SYN	GAV	HSD	01/12A	
Perfluorodecanoic Acid	335-76-2	IND/SYN	GAV	HSD	02/12A	
Perfluorohexanoic acid (PFHXA)	307-24-4	FDPK/SYN	GAV	HSD	01/12A	
Perfluorononanoic Acid	375-95-1	FDPK/SYN	GAV	HSD	02/12A	
Perfluorooctane Sulfonate	1763-23-1	SYN	GAV	HSD	01/12A	
Perfluorooctanoic Acid	335-67-1	ELEC/SYN	GAV	HSD	01/12A	
Sulfolane	126-33-0	ADHS	GAV	O6 M22 HSD		01/14A
Usnea Lichen	USNEALICHEN	DIET/NATL	FEED	RC MV	01/07A	02/09A
(+)-Usnic Acid	7562-61-0	NATL/NATL	FEED	RC MV	12/06A	08/08A

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Ref No. 7

Long-Term Exposure Studies in Progress

CHEMICAL NAME	PRIMARY CAS NUMBER	USE	ROUTE	SPECIES	CHRONIC START DATE
1020 Long Multiwalled Carbon Nanotube	L-MWNT-1020		INHAL	M22 HSD	06/16A

Ref No. 8

Long-Term Exposure Studies: Laboratory Study Report in Preparation

CHEMICAL NAME	PRIMARY CAS NUMBER	USE	ROUTE	SPECIES
alpha-Pinene	80-56-8	SOLV/SYN	INHAL	M3 HSD
Bisphenol A	80-05-7	INTR/SYN	GAV	44
Black Cohosh	84776-26-1	DIET/NATL	GAV	M3 HSD
Insertional Mutagenesis - Definitive Vector Study	INSERTMUT3	N/A	IV	M1
Resveratrol	501-36-0	CMOT/NATL	GAV	RE RD M3 HSD
Sulfolane	126-33-0	ADHS	WATER	M3 HSD
Triclosan	3380-34-5	COSM/SYN	DERMAL	M3
Tris(Chloropropyl)phosphate	13674-84-5	PEST	FEED	M3 HSD

Ref No. 10

Long-Term Exposure Studies: Pathology Quality Assessment in Progress

CHEMICAL NAME	PRIMARY CAS NUMBER	USE	ROUTE	SPECIES
Aging Cohort Study: 129/SvlmJ 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
Cell Phone Radiation: CDMA	CELLPRADCDMA	N/A	WB	M3 HSD
Cell Phone Radiation: GSM	CELLPRADGSM	N/A	WB	M3 HSD

Ref No. 10

Long-Term Exposure Studies: Pathology Quality Assessment in Progress

CHEMICAL NAME	PRIMARY CAS NUMBER	USE	ROUTE	SPECIES
Dibutyl Phthalate	84-74-2	FUNG/SYN	FEED	M3 HSD
Di(2-ethylhexyl) Phthalate	117-81-7	PLAS/SYN	FEED	HSD
Di(2-ethylhexyl) Phthalate	117-81-7	PLAS/SYN	FEED	HSD
N,N-Dimethyl-p-toluidine	99-97-8	INTR/SYN	GAV	RD M3
Perfluorooctanoic Acid	335-67-1	ELEC/SYN	FEED	HSD
Perfluorooctanoic Acid	335-67-1	ELEC/SYN	FEED	HSD
Sodium Tungstate Dihydrate	10213-10-2	FLAM/NATL	WATER	M3 HSD
p-Toluidine	106-49-0	INTR/SYN	GAV	RD

Ref No. 12

Short-Term Exposure Studies Scheduled for Peer Review

Short-Term Studies

CHEMICAL NAME	PRIMARY CAS NUMBER	USE	ROUTE	SPECIES	RPT No.
Bisphenol A	80-05-7	INTR/SYN	GAV	44	C10034 (3)
Chitosan	9012-76-4	DIET/NATL	FEED	R8	
p-Chloro-a,a,a-trifluorotoluene	98-56-6	SYN	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	
2,3-Pentanedione	600-14-6	FOOD/SYN	INHAL	RE M3	
ortho-Phthalaldehyde	643-79-8	GERM	INHAL	M3 HSD	
Serotype 2 Adeno-associated Viral Vector hAQP1 (rAAV2hAQP1)	AAV2HAQP1		ID/CN	MW	
Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)	21850-44-2	FLAM/SYN	GAV	RD M3	
Triethylamine	121-44-8	INTR/SYN	INHAL	R2 M3	
Wyeth 14,643 (WY)	50892-23-4	PHAR/SYN	GAV	HSD	

Ref No. 13

Long-Term Exposure Studies Scheduled for Peer Review

CHEMICAL NAME	PRIMARY CAS NUMBER	USE	ROUTE	SPECIES	RPT No.
AZT/Drug Combinations Transplacental/Neonatal Study	AIDSDRUGSNEO	PHAR/SYN	GAV	MV M3	
2,3-Butanedione	431-03-8	FOOD/N/S	INHAL	RE M3	
p-Chloro-a,a,a-trifluorotoluene	98-56-6	SYN	INHAL	M3 HSD	
2-Hydroxy-4-methoxybenzophenone	131-57-7	COSM/SYN	FEED	M3 HSD	
1020 Long Multiwalled Carbon Nanotube	L-MWNT-1020		INHAL	M3 HSD	
Zinc Carbonate, Basic	5263-02-5	NATL/NATL	FEED	HSD	

Ref No. 14

Post Peer Review Technical Reports in Progress

Short-Term Studies

CHEMICAL NAME	PRIMARY CAS NUMBER	USE	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	
Cedarwood oil	8000-27-9	COSM/NATL	SP	R2 M3	TOX-86
o-Chloropyridine	109-09-1	COSM/SYN	WATER	R2 M3	TOX-83
Hexachlorobenzene	118-74-1	FUNG/SYN	GAV	HSD	
Indole-3-carbinol	700-06-1	DIET/N/S	GAV	R2 M22	
PCN 66/67 comparison study	PCNCOMPARISN	SYN	GAV	R8 R2 HSD	
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	

Ref No. 14

Post Peer Review Technical Reports in Progress

Long-Term Studies

CHEMICAL NAME	PRIMARY CAS NUMBER	USE	ROUTE	SPECIES	RPT No.	CARCINOGEN CODES MR	FR	MM	FM*+
Antimony Trioxide	1309-64-4	DYE/N/S	INHAL	RE M3					

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

See Page 4 for explanation of Carcnogen Codes

Ref No. 14

Post Peer Review Technical Reports in Progress

Long-Term Studies

CHEMICAL NAME	PRIMARY CAS NUMBER	USE	ROUTE	SPECIES	RPT No.	CARCINOGEN CODES MR FR MM FM*+
Indole-3-carbinol	700-06-1	DIET/N/S	GAV	M3 HSD		NE SE CE CE

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

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Ref No. 16

Printed Long-Term and Short-Term Study Reports

Genetically Modified Model Studies

CHEMICAL NAME	PRIMARY CAS NUMBER	USE	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	ME MI	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	

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Ref No. 16

Printed Long-Term and Short-Term Study Reports

Short-Term Studies

CHEMICAL NAME	PRIMARY CAS NUMBER	USE	ROUTE	SPECIES	RPT No.	NTIS ** NUMBER	CARCINOGEN CODES MR	FR	MM	FM*+
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					
5-Amino-o-cresol	2835-95-2	COSM/SYN	SP	RD M3	TOX-89					
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				
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				
Cellulose insulation	CELLULOSEINS	PAPR/SYN	IT	R2	TOX-74	PB2009-115653				
Chemical mixture - drinking water contaminants	CHEMMIXH2O	COMT/NATL	WATER	R2 M3	TOX-35	PB94-121498				
Chloral hydrate	302-17-0	PHAR/SYN	GAV	R2 MV	C92010B					
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				
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	P	P		
C.I. Direct Blue 6	2602-46-2	COSM	FEED	R2 M3	TR-108	PB280204	P	P		
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	N	P		
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				
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				
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				

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Printed Long-Term and Short-Term Study Reports

Short-Term Studies

CHEMICAL NAME	PRIMARY CAS NUMBER	USE	ROUTE	SPECIES	RPT No.	NTIS ** NUMBER	CARCINOGEN CODES MR FR MM FM*+
1,2-Dichloroethane	107-06-2	FUME/SYN	WATER	R8 R1	TOX-04	PB91-185363	
trans-1,2-Dichloroethylene	156-60-5	SOLV	MICRO	R2 M3	TOX-55	PB2002-108967	
Diethanolamine	111-42-2	TEXL/SYN	SP	R2 M3	TOX-20	PB93-133999	
Diethanolamine	111-42-2	TEXL/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 (monomer)	147-47-7	IND/SYN	SP	R2 M3	TR-456	PB98-101009	
1,2-Dihydro-2,2,4-trimethylquinoline (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-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E 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 (1,2-Dichloro-1,1-difluoroethane)	1649-08-7	IND/SYN	GAV	R2	TOX-45	PB96-202718	
Halogenated ethanes CS (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 (1,1,1,2-Tetrabromoethane)	630-16-0	IND/SYN	GAV	R2	TOX-45	PB96-202718	
Halogenated ethanes CS (1,1,2,2-Tetrabromoethane)	79-27-6	FLAM/SYN	GAV	R2	TOX-45	PB96-202718	
Halogenated ethanes CS (1,1,1,2-Tetrachloroethane)	630-20-6	INTR	GAV	R2	TOX-45	PB96-202718	
Halogenated ethanes CS (1,1,2,2-Tetrachloroethane)	79-34-5	SOLV/SYN	GAV	R2	TOX-45	PB96-202718	
Halogenated ethanes CS (1,1,1-Trichloroethane)	71-55-6	SOLV/SYN	GAV	R2	TOX-45	PB96-202718	
Halogenated ethanes CS (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	
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	

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See Page 4 for explanation of Carcnogen Codes

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Short-Term Studies

CHEMICAL NAME	PRIMARY CAS NUMBER	USE	ROUTE	SPECIES	RPT No.	NTIS ** NUMBER	CARCINOGEN CODES MR FR MM FM*+
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	
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	PB96-176342	
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	
Peroxisome project (WY-14643)	50892-23-4	PHAR/SYN	FEED	M3 H1 HSD	TOX-62	PB2000-106659	
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	
Promethazine hydrochloride	58-33-3	PHAR/SYN	GAV	R2 M3	TR-425	PB94-210192	
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	
Sodium cyanide	143-33-9	FUME/SYN	WATER	R2 M3	TOX-37	PB94-194693	
Sodium dichromate dihydrate (VI)	7789-12-0	ENVH/SYN	WATER	MX MW M3	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	
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	
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		
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	
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	

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See Page 4 for explanation of Carcnogen 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.

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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*+
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	TR-575	PB2013102800	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
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
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	TEXL/NATL	FEED	R2	TR-295	PB86-167103	SE	NE		
Asbestos, chrysotile(IR)	12001-29-5	TEXL/NATL	FEED	H1	TR-246	PB91-142380				
Asbestos, chrysotile(IR)	12001-29-5	TEXL/NATL	FEED	R2	TR-295	PB86-167103				
Asbestos, chrysotile(IR) + Dimethyl hydrazine	12001-29-5	TEXL/NATL	FEED	H1	TR-246	PB91-142380				
Asbestos, chrysotile(IR) + Dimethyl hydrazine	12001-29-5	TEXL/NATL	FEED	R2	TR-295	PB86-167103	IS	IS		
Asbestos, chrysotile(SR)	12001-29-5	TEXL/NATL	FEED	R2	TR-295	PB86-167103	NE	NE		
Asbestos, chrysotile(SR)	12001-29-5	TEXL/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

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Long-Term Studies

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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
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 (143-50-0)	PB264041	P	P	P	P
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 (67-66-3)	PB264018	P	N	P	P

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See Page 4 for explanation of Carcnogen 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*+
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
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
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
Cytembena	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
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

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See Page 4 for explanation of Carcnogen 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*+
2,7-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	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
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	TR-545	PB2008-114279				
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

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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
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 M22	TR-585		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
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				

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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	TR-527	PB2005-107573	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
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	RE RD M22	TR-586		EE	EE	NE	NE
Metal Working Fluids: TRIM® VX	TRIMVX	METL/SYN	INHAL	RE M3	TR-591		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-Methoxypsoralen	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
Methyldopa 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

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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	C61654		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	TEXL/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
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

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Picloram	1918-02-1	HERB/SYN	FEED	R1 M3	TR-023	PB276471	N	E	N	N
beta-Picoline	108-99-6	SYN	WATER	R2 M22	TR-580	PB2015-102752	NE	SE	EE	EE
Piperonyl butoxide	51-03-6	PEST/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	R9 R2 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		
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	TOX-72	PB2007-107225	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)	TEFPCBMIX	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		

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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	M22 HSD	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
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	R3 R4	TR-273	PB88-218896	IS	IS		
Trichloroethylene	79-01-6	ADHS/SYN	GAV	R6 R1	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
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
Triprolidine	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

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

See Page 4 for explanation of Carcnogen 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*+
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		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		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
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 Carcnogen Codes

Ref No. 17

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

CHEMICAL NAME	PRIMARY CAS NUMBER	USE	ROUTE	SPECIES	COMMENTS	FOOTNOTE REFERENCE
Actinomycin D	50-76-0	CMOT/NATL	IP/IJ	R8 M4	RESULTS REPORTED IN JOURNAL ARTICLE	A
Agaritine	2757-90-6	CMOT/NATL	WATER	M4	RESULTS REPORTED IN JOURNAL ARTICLE	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	RESULTS REPORTED IN JOURNAL ARTICLE	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		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		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		J
Cyclophosphamide	50-18-0	CMOT/SYN	IP/IJ	R8 M4	RESULTS REPORTED IN JOURNAL ARTICLE	A
Cytarabine	147-94-4	PHAR/SYN	IP/IJ	R8 M4		A
Cytoxal alcohol	4465-94-5	CMOT	IP/IJ	R8 M4		A
Dacarbazine	4342-03-4	CMOT/SYN	IP/IJ	R8 M4		A
Daunomycin	20830-81-3	CMOT/NATL	IP/IJ	R8 M4		A
o,p'-DDD	53-19-0	PEST/SYN	IP/IJ	R8 M4		A
Dibromodulcitol	10318-26-0	CMOT/SYN	IP/IJ	R8 M4		A
Dibromomannitol	488-41-5	CMOT/SYN	IP/IJ	R8 M4		A
Dichloromethotrexate	528-74-5	CMOT	IP/IJ	R8 M4		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		

Ref No. 17

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

CHEMICAL NAME	PRIMARY CAS NUMBER	USE	ROUTE	SPECIES	COMMENTS	FOOTNOTE REFERENCE
Furan	110-00-9	DTRG/N/S	GAV	RC	9/12/16 is the actual date that the final NCTR report was sent to Nigel. There may still be a publication at a later date, but I don't have a date for it as of yet. Please let me know if you need anything else. Amy Changed status to complete-sl 10/20/16	
Guanazole	1455-77-2	CMOT	IP/IJ	R8 M4	RESULTS REPORTED IN JOURNAL ARTICLE	A
Hexanamide	628-02-4	INTR	FEED	R2 M1		
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	RESULTS REPORTED IN JOURNAL ARTICLE	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	RESULTS REPORTED IN JOURNAL ARTICLE	A
2-Methyl-1-nitroanthraquinone	129-15-7	INTR/SYN	FEED	M3		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
Polyurethane	9009-54-5	RUBR	INHAL	R8 H1		
Prednisone	53-03-2	CMOT/N/S	IP/IJ	R8 M4	RESULTS REPORTED IN JOURNAL ARTICLE	A
Procarbazine hydrochloride	366-70-1	CMOT/SYN	IP/IJ	R8 M4	RESULTS REPORTED IN JOURNAL ARTICLE	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	RESULTS REPORTED IN JOURNAL ARTICLE	A
Styrene oxide	96-09-3	INTR	GAV	R2 M3		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) .

A EK Weisburger, Bioassay Program for Carcinogenic Hazards of Cancer Chemotherapeutic Agents. Cancer 40:1935-1949 (1977)

D ASK Murthy, JR Baker, ER Smith, GG Wade, Development of Hemangiosarcomas in B6C3F1 Mice Fed 2-Methyl-1-Nitroanthraquinone. Int. J. Cancer 19:117-121 (1977)

E B Toth, CR Raha, L Wallcave, D Nagel, Attempted Tumor Induction with Agaritine in Mice. Anticancer Res 1:255-258 (1981)

F W Lijinsky, MD Reuber, BN Blackwell, Liver Tumors Induced in Rats by Oral Administration of the Antihistaminic Methapyrilene Hydrochloride. Science 209:817-819 (1980)

H W Lijinsky, Chronic Bioassay of Benzyl Chloride in F344 Rats and (C57BL/6JXBALB/C)F1 Mice. J Natl Cancer Inst. 1986 Jun;76(6):1231-6.

I McConnell EE, Hall L, Adkins B Jr., Studies on the Chronic Toxicity (Inhalation) of Wollastonite in Fischer 344 Rats. Inhalation Toxicology 3:323-337 (1991).

J Lijinsky W, RM Kovatch, Chronic Toxicity Study of Cyclohexanone in Rats and Mice. J Natl Cancer Inst. 1986 Oct;77(4):941-9.

K W Lijinsky. Rat and Mouse Forestomach Tumors Induced by Chronic Oral Administration of Styrene Oxide. J Natl Cancer Inst. 1986 Aug;77(2):471-6.

M Tumorogenic Potential of Rotenone and its Specificity for Mammary Tissue, published by National Center for ToxicologicalResearch (NCTR Experiment No. 216). Call NCTR (501-543-7115) for availability of document.

N GN Rao, J Edmondson and MR Elwell. Influence of dietary fat and fiber on growth and tumor incidences in Fischer 344 rats (presented in an abstract at the 33rd annual meeting of the Society of Toxicology in March 1994). Toxicologist 14(1):303, 1994.

O GN Rao. Growth, Body Weight Patterns, and life Span of the B6C3F1 Mouse. Pathology of the Mouse (R. Maronpot, Ed.) Cache River Press, Vienna, IL. (1999)

P Supplemental 2-Year Sodium Fluoride Male Rat Study (available on NTP website http://ntp.niehs.nih.gov/go/16389)

Q Bucher JR, Melnick RL, and Hildebrandt PK. Lack of Carcinogenicity in Mice Exposed Once to High Concentrations of 1,3-Butadiene. J. Nat. Cancer Inst 85: 1866-1867 (1993).

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 NUMBER	USE	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
Ametryn	834-12-8	HERB	GAV	HSD
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 + Methadone HCl (AIDS)	AZTMETHCOMB	PHAR/SYN	GAV	M3
AZT + Nitazoxanide (AIDS Initiative)	AZT+NITAZOX	PHAR/SYN	GAV	M3
AZT + TMP/SMX (mixture) combination	AZTTMPSMX	PHAR	GAV	M3
AZT + TMP/SMX (mixture) combination	AZTTMPSMX	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 A	80-05-7	INTR/SYN	GAV	HSD
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

Appendix

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

CHEMICAL NAME	PRIMARY CAS NUMBER	USE	ROUTE	SPECIES
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	ME MI ML
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	MA M9 M8
Crotonaldehyde	4170-30-3	INTR/SYN	GAV	R2 M3
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
Dimethylaminopropyl chloride, hydrochloride	5407-04-5	INTR/SYN	GAV	R2 M3
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 63 M15
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
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 B6129
Gallium oxide	12024-21-4	METL/NATL	INHAL	R2 M3
Glucosamine	3416-24-8	DIET/NATL	GAV	ZO ZL

Appendix

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

CHEMICAL NAME	PRIMARY CAS NUMBER	USE	ROUTE	SPECIES
Glucosamine Hydrochloride + Chondroitin Sulfate	GLUCOSCHONDN	DIET	GAV	ZL ZO
Glyoxal	107-22-2	PAPR/SYN	WATER	R2 M3
Gum Guggul Extract	GUMGUGGULEXT	DIET/NATL	GAV	M3 HSD
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 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
Magnetic fields (EMF)	ELECTROMAG	ELEC	WB	MD MC
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	R2 R5
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)	MICROCYSTNMX	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
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 HSD

Appendix

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

CHEMICAL NAME	PRIMARY CAS NUMBER	USE	ROUTE	SPECIES
Peroxisome project (2,4-Dichlorophenoxyacetic acid)	94-75-7	PEST/SYN	FEED	M3 H1 HSD
Peroxisome project (Gemfibrozil)	25812-30-0	PHAR/SYN	FEED	M3 H1 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	HSDD 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
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 (bepridil 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)	TGMXRALVFEED	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 M3 MD
Retroviral vectors	RETROVIRVECT	PHAR	IV	M3 MD
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	MK MM
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	R8 R2

Appendix

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

CHEMICAL NAME	PRIMARY CAS NUMBER	USE	ROUTE	SPECIES
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	TEXL/N/S	SP	ME
Transgenic LECM (Coconut oil acid diethanolamine condensate)	68603-42-9	TEXL/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
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	MO MH
Transgenic LEP (Cyclosporin A)	59865-13-3	PHAR/NATL	GAV	MO MH
Transgenic LEP (Melphalan)	148-82-3	CMOT/SYN	GAV	MO MH
Transgenic LEP (p-Cresidine)	120-71-8	DYE	FEED	MH MO
Transgenic LEP (Resorcinol)	108-46-3	PHAR/SYN	GAV	MO MH
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	MI MN
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	MI MN
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	MI MN
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

Appendix

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

CHEMICAL NAME	PRIMARY CAS NUMBER	USE	ROUTE	SPECIES
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
Transgenic Model Evaluation (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 (Bromodichloroacetic Acid)	71133-14-7	ENVH/NATL	WATER	R2 M3
Water disinfection byproducts (Bromodichloromethane)	75-27-4	FLAM/SYN	WATER	R2 M3
Water disinfection byproducts (Bromodichloromethane)	75-27-4	FLAM/SYN	GAV	R2 M3
Water disinfection byproducts (Dibromoacetic acid)	631-64-1	WATR/SYN	WATER	R2 M3
Water disinfection byproducts (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 Registry Number (CASRN) with Reference Location

@ 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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62-73-7	Dichlorvos	43	16
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63-05-8	Androstenedione	51	*
63-05-8	Androstenedione	51	*
63-05-8	Androstenedione	40	16
63-25-2	Carbaryl	52	*
63-92-3	Phenoxybenzamine hydrochloride	46	16
64-17-5	Ethanol	43	16
@ 64-17-5	Urethane + ethanol (combination) (Primary CASRN is URETHCOMB)	39	16
@ 64-17-5	Urethane + ethanol (combination) (Primary CASRN is URETHCOMB)	49	16
64-18-6	Formic acid	38	16
64-75-5	Tetracycline hydrochloride	48	16
64-77-7	Tolbutamide	48	16
66-75-1	Uracil mustard	50	17
@ 66-84-2	Glucosamine Hydrochloride + Chondroitin Sulfate (Primary CASRN is GLUCOSCHONDN)	53	*
67-20-9	Nitrofurantoin	46	16
67-47-0	5-(Hydroxymethyl)-2-furfural	38	16
67-47-0	5-(Hydroxymethyl)-2-furfural	44	16
@ 67-56-1	Crude MCHM (Primary CASRN is CRUDEMCHM)	33	5
67-64-1	Acetone	37	16
@ 67-64-1	Chemical mixture - drinking water contaminants (Primary CASRN is CHEMMIXH2O)	37	16
@ 67-66-3	Chemical mixture - drinking water contaminants (Primary CASRN is CHEMMIXH2O)	37	16
67-66-3	Chloroform	41	16
67-72-1	Halogenated ethanes CS (Hexachloroethane)	38	16
67-72-1	Hexachloroethane	44	16
67-72-1	Hexachloroethane	44	16
68-12-2	Dimethylformamide		16
@ 68-26-8	Retinoid project 1 (Primary CASRN is RETINOID1)	54	*
69-65-8	D-Mannitol	45	16
@ 70-25-7	Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG) (Primary CASRN is INIT/PROM)	44	16
@ 70-25-7	Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG) (Primary CASRN is INIT/PROM)	44	16
@ 70-25-7	Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG) (Primary CASRN is INIT/PROM)	44	16
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70-55-3	p-Toluenesulfonamide	39	16
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@ 71-43-2	Chemical mixture - drinking water contaminants (Primary CASRN is CHEMMIXH2O)	37	16
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73-31-4	Melatonin	53	*
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@ 73-31-4	Prevention 2 (Silymarin + melatonin) (Primary CASRN is SILYMARN+MEL)	54	*
73-31-4	Prevention 3 (Melatonin)	54	*
@ 73-31-4	Prevention 1 (Flaxseed oil + melatonin) (Primary CASRN is FLAXSEED+MEL)	54	*
73-31-4	Prevention 4 (Melatonin)	54	*
73-31-4	Prevention 5 (Melatonin)	54	*
@ 73-31-4	Prevention 4 (Melatonin + curcumin) (Primary CASRN is MEL+CURCUMIN)	54	*
@ 73-31-4	Prevention 4 (Melatonin + indole-3-carbinol) (Primary CASRN is MEL+INDOLCAR)	54	*
74-83-9	Methyl bromide	39	16
74-83-9	Methyl bromide	45	16
74-83-9	Methyl bromide	39	16
74-94-2	Dimethylamine Borane	33	5
74-96-4	Bromoethane (ethyl bromide)	41	16
75-00-3	Chloroethane	41	16
75-05-8	Acetonitrile	51	*
75-05-8	Acetonitrile	40	16
@ 75-09-2	Chemical mixture - drinking water contaminants (Primary CASRN is CHEMMIXH2O)	37	16
75-09-2	Methylene chloride	45	16
75-12-7	Formamide	38	16
75-12-7	Formamide	44	16
75-15-0	Carbon disulfide	52	*
75-15-0	Carbon disulfide	52	*
75-15-0	Carbon disulfide	52	*
75-21-8	Ethylene oxide	44	16
@ 75-25-2	Chemical mixture - drinking water contaminants (Primary CASRN is CHEMMIXH2O)	37	16
75-25-2	Tribromomethane	48	16
75-27-4	Bromodichloromethane	41	16

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CASRN	CHEMICAL NAME	PAGE	REF
109-86-4	Ethylene Glycol Monomethyl Ether (EGMME)	38	16
109-89-7	Diethylamine	43	16
109-99-9	Tetrahydrofuran	54	*
109-99-9	Tetrahydrofuran	39	16
109-99-9	Tetrahydrofuran	48	16
110-00-9	Furan	50	17
110-00-9	Furan	33	5
110-00-9	Furan	44	16
110-02-1	Thiophene	54	*
110-54-3	n-Hexane	38	16
110-63-4	1,4-Butanediol		16
110-69-0	Butanal oxime	37	16
110-80-5	Ethylene glycol monoethyl ether (EGMEE)	38	16
110-80-5	Ethylene glycol monoethyl ether (EGMEE)	38	16
110-86-1	Pyridine	54	*
110-86-1	Pyridine	47	16
110-86-1	Pyridine	47	16
110-86-1	Transgenic LECM (Pyridine)	55	*
110-86-1	Transgenic LECM (Pyridine)	55	*
111-30-8	Glutaraldehyde	38	16
111-30-8	Glutaraldehyde	44	16
111-42-2	Diethanolamine	38	16
111-42-2	Diethanolamine	38	16
111-42-2	Diethanolamine	43	16
111-42-2	Transgenic LECM (diethanolamine)	56	*
111-76-2	2-Butoxyethanol (ethylene glycol monobutyl ether)	37	16
111-76-2	2-Butoxyethanol (ethylene glycol monobutyl ether)	37	16
111-76-2	2-Butoxyethanol (ethylene glycol monobutyl ether)	41	16
111-91-1	bis(2-Chloroethoxy)methane	32	2
111-91-1	bis(2-Chloroethoxy)methane	41	16
111-91-1	bis(2-Chloroethoxy)methane	52	*
111-91-1	bis(2-Chloroethoxy)methane	52	*
113-92-8	Chlorpheniramine maleate	42	16
115-07-1	Propylene	47	16
115-11-7	Isobutene	45	16
115-28-6	Chlorendic acid	41	16
115-29-7	Endosulfan	43	16
115-32-2	Dicofol	43	16
115-86-6	Triphenyl Phosphate	56	*
115-86-6	Triphenyl Phosphate	34	5
115-96-8	Tris(2-Chloroethyl) Phosphate	48	16
116-06-3	Aldicarb	40	16
@ 116-06-3	Pesticide/fertilizer contamination--mixture 2 (Primary CASRN is PESTFERTMIX2)	39	16
116-14-3	Tetrafluoroethylene	39	16
116-14-3	Tetrafluoroethylene	48	16
117-08-8	Tetrachlorophthalic anhydride	39	16
117-39-5	Quercetin	47	16

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CASRN	CHEMICAL NAME	PAGE	REF
117-79-3	2-Aminoanthraquinone	40	16
@ 117-81-7	Chemical mixture - drinking water contaminants (Primary CASRN is CHEMMIXH2O)	37	16
117-81-7	Di(2-ethylhexyl) Phthalate	35	10
117-81-7	Di(2-ethylhexyl) Phthalate	35	10
117-81-7	Di(2-ethylhexyl) Phthalate	52	*
117-81-7	Di(2-ethylhexyl) Phthalate	33	5
117-81-7	Di(2-ethylhexyl) Phthalate	52	*
117-81-7	Di(2-ethylhexyl) Phthalate	43	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	33	5
118-74-1	Hexachlorobenzene	35	14
118-92-3	o-Anthranilic acid	40	16
119-34-6	4-Amino-2-nitrophenol	40	16
119-53-9	Benzoin	41	16
119-61-9	Benzophenone	37	16
119-61-9	Benzophenone	41	16
119-64-2	Tetralin	48	16
119-84-6	3,4-Dihydrocoumarin	38	16
119-84-6	3,4-Dihydrocoumarin	43	16
120-32-1	o-Benzyl-p-chlorophenol	37	16
120-32-1	o-Benzyl-p-chlorophenol	41	16
120-32-1	o-Benzyl-p-chlorophenol	41	16
120-40-1	Lauric acid diethanolamine condensate	45	16
120-40-1	Transgenic LECM (Lauric acid diethanolamine condensate)	55	*
120-40-1	Transgenic LECM (Lauric acid diethanolamine condensate)	55	*
@ 120-58-1	Toxicogenomics study of allylbenzene & propenylbenzene class flavor constituents (TGMX) (Primary CASRN is TGMXFLAVCLAS)	55	*
120-61-6	Dimethyl terephthalate	43	16
120-62-7	Piperonyl sulfoxide	47	16
120-71-8	p-Cresidine	42	16
120-71-8	p-Cresidine	52	*
120-71-8	Transgenic LEP (p-Cresidine)	55	*
120-83-2	2,4-Dichlorophenol	43	16
121-14-2	2,4-Dinitrotoluene	43	16
121-19-7	Roxarsone	47	16
121-44-8	Triethylamine		12
121-54-0	Benzethonium chloride	37	16
121-54-0	Benzethonium chloride	41	16
121-66-4	2-Amino-5-nitrothiazole	40	16
121-69-7	N,N-Dimethylaniline	43	16
121-75-5	Malathion	45	16
121-75-5	Malathion	45	16
121-79-9	Propyl gallate	47	16
121-88-0	2-Amino-5-nitrophenol	40	16
121-92-6	m-Nitrobenzoic acid	53	*

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