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: NTP Web Team (Telephone: 919-541-3419; Mail Drop K2-05, NIEHS, P. O. BOX 12233, Research Triangle Park, NC USA 27709; EMAIL: ntpwebrequest@niehs.nih.gov) .

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

Printed copies of many Technical Reports on NTP toxicology and carcinogenesis studies and short-term toxicity studies are available from NTP Web Team (Telephone: 919-541-3419; Mail Drop K2-05, NIEHS, P. O. BOX 12233, Research Triangle Park, NC USA 27709; EMAIL: ntpwebrequest@niehs.nih.gov) .

If you have further questions about electronic access or to request a copy of EHP, VOL. 101, contact NTP Web Team (Telephone: 919-541-3419; Mail Drop K2-05, NIEHS, P. O. BOX 12233, Research Triangle Park, NC USA 27709; EMAIL: ntpwebrequest@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	Species: Strain		CODE	Species: Strain
C	Chicks		HU	Human (Cell Lines)
D	Dogs		M	Mice
DL	Drosophila		MO	Monkeys
F	Fish		R	Rats
FR	Frog		RA	Rabbits
GP	Guinea Pigs		RM	Rats/Mice
H	Hamsters			
NA	Chicks:Not Available	*	ML	Mice:Tg.Lac1/C57BL/6 (Big Blue)
NA	Dogs:Not Available		MM	Mice:BALB/cByJ
O3	Dogs: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)
F2	Fish:Guppy (Poecilia reticulata)	*	MQ	Mice:P16(Ink4a)/(+/-) (C57BL/6)
F3	Fish:Zebra (Danio rerio)		MR	Mice:129S1/SvImJ
NA	Fish:Not Available	*	MS	Mice:P53 +/- (FVB/N)
NA	Frog:Not Available		MT	Mice:SKH-1 Hairless
NA	Guinea Pigs:Not Available	*	MU	Mice:TRAMP (C57BL/6 PB-TAG TRANSGENE)
O6	Guinea Pigs:Hartley		MV	Mice:B6C3F1 (NCTR)
H1	Hamsters:Syrian Golden		MW	Mice:BALB/c
NA	Hamsters:Not Available	*	MX	Mice:AM3 (C57BL/6)
TK6HG2	Human (Cell Lines):TK6 and HepG2 Cells		MY	Mice:CD-1 Reg.[Crl:CD1(ICR)]
129B6TRP53	Mice:Female 129S1.SvlmJ crossed to B6.129-Trp53<tm1Brd> males homozygous for the Trp53 null allele		MZ	Mice:C57BL/6J (Jackson)
60	Mice:NOD. B10Sn-H2(b)/J		NA	Mice:Not Available
61	Mice:NZO/HiLtJ		RB6TRP53	Mice:Female BTBR.Tj (R) crossed to B6.129-Trp53<tm1Brd> males homozygous for the Trp53 null allele
62	Mice:PWK/PhJ		NA	Monkeys:Not Available
63	Mice:B6C3F1/J (Jackson)		RH	Monkeys:Rhesus
AB6TRP53	Mice:Female A/J crossed to B6.129-Trp53<tm1Brd> males homozygous for the Trp53 null allele		44	Rats:Sprague Dawley (NCTR)
B6129	Mice:B6.129-Trp53<TM1BRD>		48	Rats:Crl:CD (SD)
C3B6	Mice:C3B6.129F1-Trp53<TM1BRD>		F344	Rats:Fischer 344
C3B6TRP53	Mice:Female C3H/HeJ crossed to B6.129-Trp53<tm1Brd> males homozygous for the Trp53 null allele		FSAS	Rats:F344/NCrl (SAS FISCH)
C6N	Mice:C57BL/6N		HSD	Rats:Harlan Sprague-Dawley
CB6TRP53	Mice:Female Balb/c (C) crossed to B6.129-Trp53<tm1Brd> males homozygous for the Trp53 null allele		HSDD	Rats:Harlan Sprague Dawley (Dublin Facility)

	CODE	Species: Strain
	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

	CODE	Species: Strain
	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)
	RC1	Rats:F344/N (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	Rabbits: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
2,3-Benzofluorene	243-17-4	33	6
6:1 Fluorotelomer alcohol	375-82-6	33	6
Abrasive Blasting Agents: Blasting Sand	BLASTINGSAND	36	16
Abrasive blasting agents (coal slag)	COALSLAG	36	16
Abrasive blasting agents (crushed glass)	CRUSHEDGLASS	36	16
Abrasive blasting agents (garnet)	GARNET	36	16
Abrasive Blasting Agents: Specular Hematite	HEMATITESPEC	36	16
@ Acesulfame Potassium Transgenic Model Evaluation II (Listed As: Transgenic Model Evaluation II (Acesulfame Potassium))	55589-62-3	35	16
Acetaminophen (4-hydroxyacetanilide)	103-90-2	33	5
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	34	12
Acetone	67-64-1	36	16
Acetonitrile	75-05-8	51	*
Acetonitrile	75-05-8	40	16
Acrolein	107-02-8	36	16
Acronycine	7008-42-6	40	16
Acrylamide	79-06-1	51	*
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	51	*
Agar	9002-18-0	40	16
Agaritine	2757-90-6	49	17
Aging Cohort Study: 12951/SvlmJ mouse	MOUSEPHENO1	35	13
Aging Cohort Study: B6C3F1J mouse	MOUSEPHENO6	35	13
Aging Cohort Study: C3H/HeJ mouse	MOUSEPHENO3	35	13
Aging Cohort Study: C57/BL/6J mouse	MOUSEPHENO4	35	13
Aging Cohort Study: CAST/EiJ mouse	MOUSEPHENO5	35	13
Aging Cohort Study: NZO/HiLtJ mouse	MOUSEPHENO10	35	13
Aging Cohort Study: PWK/PhJ mouse	MOUSEPHENO8	35	13
Aging Cohort Study: WSB/EIJ mouse	MOUSEPHENO9	35	13
Aging Cohort Study: A/J mouse	MOUSEPHENO2	35	13

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CHEMICAL NAME	CASRN	PAGE	REF
Aging Cohort Study: NOD. B10Sn-H2(b)/J	MOUSEPHENO7	35	13
@ Aizen Malachite Green (Listed As: Malachite green)	569-64-2	45	16
@ 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	36	16
Allyl alcohol	107-18-6	36	16
Allylamine	107-11-9	33	1
Allylamine	107-11-9	33	1
Allyl bromide	106-95-6	35	16
Allyl bromide	106-95-6	51	*
Allyl bromide	106-95-6	35	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	51	*
alpha/beta Hydroxy acids (glycolic acid, salicylic acid)	HYDROXGLYSAL	40	16
alpha-Pinene	80-56-8	36	16
alpha-Pinene	80-56-8	33	5
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	36	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

@ 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
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	42	16
3-Chloro-4-(dichloromethyl)-5-hydroxy-2(5H)-furanone(MX)	77439-76-0	52	*
Chloroethane	75-00-3	42	16
2-Chloroethanol (ethylene chlorohydrin)	107-07-3	42	16
bis(2-Chloroethoxy)methane	111-91-1	42	16
bis(2-Chloroethoxy)methane	111-91-1	52	*
bis(2-Chloroethoxy)methane	111-91-1	52	*
2-Chloroethyltrimethylammonium chloride	999-81-5	42	16
Chloroform	67-66-3	42	16
Chloromethyl methyl ether	107-30-2	50	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	*
@ 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	37	16
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	37	16
p-Chloro-a,a,a-trifluorotoluene	98-56-6	42	16
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
Chlorpyrifos	2921-88-2	33	5
Chlorpyrifos	2921-88-2	33	1
Chromium	7440-47-3	50	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
trans-Cinnamaldehyde	14371-10-9	52	*
Cinnamyl anthranilate	87-29-6	42	16
C.I. Pigment Red 3	2425-85-6	42	16

@ 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
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	52	*
m-Cresidine	102-50-1	42	16
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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	52	*
Crumb Rubber	CRUMBRUBBERVARIOUS	37	16
@ CS (Listed As: o-Chlorobenzalmalononitrile (CS))	2698-41-1	41	16
@ CTFT (Listed As: p-Chloro-a,a,a-trifluorotoluene)	98-56-6	37	16

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@ CTFT (Listed As: p-Chloro-a,a,a-trifluorotoluene)	98-56-6	37	16
Cumene	98-82-8	52	*
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	*
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Cyclohexene oxide	286-20-4	52	*
Cyclohexene oxide	286-20-4	52	*
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@ Cyclophosphamide monohydrate (Transgenic model evaluation) (Listed As: Transgenic model evaluation (Cyclophosphamide monohydrate))	6055-19-2	56	*
@ Cyclophosphamide monohydrate (Transgenic model evaluation) (Listed As: Transgenic model evaluation (Cyclophosphamide monohydrate))	6055-19-2	56	*
@ Cyclosporin A (Transgenic model evaluation) (Listed As: Transgenic model evaluation (Cyclosporin A))	59865-13-3	56	*
@ Cyclosporin A (Transgenic model evaluation) (Listed As: Transgenic model evaluation (Cyclosporin A))	59865-13-3	56	*
Cyfluthrin	68359-37-5	52	*
Cyprodinil	121552-61-2	52	*
Cytarabine	147-94-4	50	17
Cytembena	21739-91-3	42	16
Cytoxal alcohol	4465-94-5	50	17
@ 2,4-D (Peroxisome project) (Listed As: Peroxisome project (2,4-Dichlorophenoxyacetic acid))	94-75-7	54	*
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@ DAPSONE (Listed As: 4,4'-Sulfonyldianiline (Dapsone))	80-08-0	48	16
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@ DBCP (Listed As: 1,2-Dibromo-3-chloropropane)	96-12-8	42	16

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

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@ 1,3-DCP (Listed As: 1,3-Dichloropropene (Telone II))	542-75-6	43	16
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D&C Yellow No. 11	8003-22-3	42	16
@ DDC (AIDS Initiative) (Listed As: 2',3'-Dideoxycytidine)	7481-89-2	53	*
@ DDC (AIDS Initiative) (Listed As: 2',3'-Dideoxycytidine)	7481-89-2	53	*
@ DDC (AIDS Initiative) (Listed As: 2',3'-Dideoxycytidine)	7481-89-2	53	*
o,p'-DDD	53-19-0	50	17
@ DDT (Listed As: Dichlorodiphenyltrichloroethane (DDT))	50-29-3	43	16
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@ DDVP (Listed As: Dichlorvos)	62-73-7	43	16
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Decabromodiphenyl Ether	1163-19-5	42	16
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2,4-Decadienal	25152-84-5	37	16
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@ DEHP (Listed As: Di(2-ethylhexyl) Phthalate)	117-81-7	43	16
@ DEHP (Listed As: Di(2-ethylhexyl) Phthalate)	117-81-7	43	16
@ DEHP (Listed As: Di(2-ethylhexyl) Phthalate)	117-81-7	53	*
@ DEHP (Listed As: Di(2-ethylhexyl) Phthalate)	117-81-7	33	6
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@ DEHP (Listed As: Di(2-ethylhexyl) Phthalate)	117-81-7	43	16
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@ DES (Transgenic model evaluation) (Listed As: Transgenic model evaluation (DES))	56-53-1	56	*

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@ DES (Transgenic model evaluation) (Listed As: Transgenic model evaluation (DES))	56-53-1	56	*
@ DGRE (Listed As: Diglycidyl resorcinol ether (DGRE))	101-90-6	43	16
@ DHPT (Listed As: 4-(6-Methyl-2-benzothiazolyl)-benzenamine)	92-36-4	54	*
@ DIACETYL (Listed As: 2,3-Butanedione)	431-03-8	41	16
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Diallyl phthalate	131-17-9	42	16
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@ 2,6-Diaminotoluene HCL (Transgenic model evaluation) (Listed As: Transgenic model evaluation (2,6-Diaminotoluene 2HCl))	15481-70-6	56	*
@ 2,6-Diaminotoluene HCL (Transgenic model evaluation) (Listed As: Transgenic model evaluation (2,6-Diaminotoluene 2HCl))	15481-70-6	56	*
@ 2,4-Diaminotoluene (Transgenic model evaluation) (Listed As: Transgenic model evaluation (2,4-Diaminotoluene))	95-80-7	56	*
@ 2,4-Diaminotoluene (Transgenic model evaluation) (Listed As: Transgenic model evaluation (2,4-Diaminotoluene))	95-80-7	56	*
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@ Dibromoacetic acid (Water disinfection byproducts) (Listed As: Water disinfection byproducts (Dibromoacetic acid))	631-64-1	57	*
@ Dibromoacetic acid (Water disinfection byproducts) (Listed As: Water disinfection byproducts (Dibromoacetic acid))	631-64-1	49	16
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1,2-Dibromo-3-chloropropane	96-12-8	43	16
@ 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	52	*

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1,2-Dibromoethane	106-93-4	43	16
Dibromomannitol	488-41-5	50	17
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@ Dibutyl phthalate (Peroxisome project) (Listed As: Peroxisome project (Dibutyl phthalate))	84-74-2	54	*
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@ 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
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5,6-Dichloro-2-benzothiazolamine	24072-75-1	53	*
2,7-Dichlorodibenzo-p-dioxin	33857-26-0	43	16
@ 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
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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
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@ Dichloromethane (Listed As: Methylene chloride)	75-09-2	45	16
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1,3-Dichloropropene (Telone II)	542-75-6	43	16
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Dichlorvos	62-73-7	43	16
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Dicyclohexylcarbodiimide	538-75-0	35	16
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2',3'-Dideoxycytidine	7481-89-2	53	*
2',3'-Dideoxycytidine	7481-89-2	53	*
@ 2',3'-Dideoxycytidine (AIDS Initiative) (Listed As: 2',3'-Dideoxycytidine)	7481-89-2	53	*
@ 2',3'-Dideoxycytidine (AIDS Initiative) (Listed As: 2',3'-Dideoxycytidine)	7481-89-2	53	*
@ 2',3'-Dideoxycytidine (AIDS Initiative) (Listed As: 2',3'-Dideoxycytidine)	7481-89-2	53	*
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Di(2-ethylhexyl) Phthalate	117-81-7	43	16
Di(2-ethylhexyl) Phthalate	117-81-7	53	*
Di(2-ethylhexyl) Phthalate	117-81-7	33	6
Di(2-ethylhexyl) Phthalate	117-81-7	53	*
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@ Di (2-ethylhexyl) phthalate (Transgenic model evaluation) (Listed As: Transgenic model evaluation (Di(2-ethylhexyl) phthalate))	117-81-7	56	*
@ Di (2-ethylhexyl) phthalate (Transgenic model evaluation) (Listed As: Transgenic model evaluation (Di(2-ethylhexyl) phthalate))	117-81-7	56	*
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1,2-Dihydro-2,2,4-trimethylquinoline (monomer)	147-47-7	43	16
1,2-Dihydro-2,2,4-trimethylquinoline (monomer)	147-47-7	37	16
1,2-Dihydro-2,2,4-trimethylquinoline (monomer)	147-47-7	43	16
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@ 7,12-Dimethylbenz(A)anthracene (DMBA) (Listed As: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG))	INIT/PROM	45	16
@ 7,12-Dimethylbenz(A)anthracene (DMBA) (Listed As: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG))	INIT/PROM	45	16
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N,N-Dimethyl-p-toluidine	99-97-8	53	*
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Dipropylene glycol	25265-71-8	43	16
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Divinylbenzene	1321-74-0	43	16
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@ DMBA/TPA/BPO/MNNG (Listed As: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG))	INIT/PROM	45	16

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@ Ethylene dichloride (Listed As: 1,2-Dichloroethane)	107-06-2		16
@ Ethylene dichloride (Listed As: 1,2-Dichloroethane)	107-06-2		16
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Ethylene glycol monoethyl ether (EGMEE)	110-80-5	37	16
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@ 1-Ethyl-3-methylimidazolium Chloride (Ionic Liquid) (Listed As: Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride)	65039-09-0	38	16
@ 1-Ethyl-3-methylimidazolium Chloride (Ionic Liquid) (Listed As: Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride)	65039-09-0	53	*
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@ Ethyl tellurac (Listed As: Ethyl tellurac)	20941-65-5	44	16
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2-ethyltoluene	611-14-3	33	5
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@ Firemaster FF-1 (Listed As: Polybrominated biphenyl mixture (Firemaster FF-1))	67774-32-7	47	16
Fish project 1 (2,2-bis(Bromomethyl)-1,3-propanediol)	3296-90-0	44	16
Fish project 1 (2,2-bis(Bromomethyl)-1,3-propanediol)	3296-90-0	44	16
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	57	*
@ Flame Retardant 1 (Listed As: Triphenyl Phosphate)	115-86-6	33	5
@ Flame Retardant 1 (Listed As: Triphenyl Phosphate)	115-86-6	33	5
@ Flame Retardant 1 (Listed As: Triphenyl Phosphate)	115-86-6	33	1
@ Flame Retardant 1 (Listed As: Triphenyl Phosphate)	115-86-6	34	6
@ Flame Retardant 1 (Listed As: 2-Ethylhexyl Diphenyl Phosphate)	1241-94-7	53	*
@ Flame Retardant 1 (Listed As: Tricresyl Phosphate)	1330-78-5	57	*
@ Flame Retardant 1 (Listed As: Tricresyl Phosphate)	1330-78-5	57	*
@ Flame Retardant 1 (Listed As: Tricresyl Phosphate)	1330-78-5	49	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: Isopropylated Phenol Phosphate)	68937-41-7	53	*
@ Flame Retardant 1 (Listed As: Isopropylated Phenol Phosphate)	68937-41-7	33	5
@ Flame Retardant 2 (Listed As: Decabromodiphenyl Ether)	1163-19-5	34	12
@ 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	55	*
@ Flame Retardant 2 (Listed As: 2,2',4,4'-Tetrabromodiphenyl Ether)	5436-43-1	55	*

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Green Tea Extract	GREENTEAEXTR	34	6
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	38	16
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
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	34	12
Hexachlorobenzene	118-74-1	53	*
Hexachlorobenzene	118-74-1	38	16
@ 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	34	12
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

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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	44	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
@ HMB (Listed As: 2-Hydroxy-4-methoxybenzophenone)	131-57-7	38	16
@ 4-HPR (Retinoid project 6) (Listed As: Retinoid project 6 (4-HPR))	65646-68-6	55	*
Hydrazobenzene	122-66-7	44	16
Hydrochlorothiazide	58-93-5	44	16
Hydroquinone	123-31-9	44	16
Phenolic Benzotriazoles (3-(2H-Benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxybenzenepropanoic acid, octyl ester)	84268-23-5	34	6
2-Hydroxy-4-methoxybenzophenone	131-57-7	44	16
2-Hydroxy-4-methoxybenzophenone	131-57-7	38	16
2-Hydroxy-4-methoxybenzophenone	131-57-7	38	16
2-Hydroxy-4-methoxybenzophenone	131-57-7	38	16
5-(Hydroxymethyl)-2-furfural	67-47-0	38	16
5-(Hydroxymethyl)-2-furfural	67-47-0	44	16
8-Hydroxyquinoline	148-24-3	44	16
@ 8-Hydroxyquinoline (Transgenic model evaluation) (Listed As: Transgenic model evaluation (8-Hydroxyquinoline))	148-24-3	56	*
@ 8-Hydroxyquinoline (Transgenic model evaluation) (Listed As: Transgenic model evaluation (8-Hydroxyquinoline))	148-24-3	56	*
Hydroxyurea	127-07-1	50	17
ICRF-159	21416-87-5	44	16
@ IDDP (Listed As: Isodecyl Diphenyl Phosphate)	29761-21-5	53	*
IPD (3,3'-iminobis-1-propanol dimethanesulfonate (ester) hydrochloride)	3458-22-8	45	16
Indium phosphide	22398-80-7	45	16
Indole-3-carbinol	700-06-1	38	16
Indole-3-carbinol	700-06-1	45	16
@ Indole-3-carbinol (Prevention 4) (Listed As: Prevention 4 (Indole-3-carbinol))	700-06-1	54	*

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Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)	INIT/PROM	45	16
Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)	INIT/PROM	45	16
Insertional mutagenesis (Radiation Levels)	INSERTMUTRAD	53	*
Insertional mutagenesis II (SIN vector)	INSERTMUT2	53	*
Insertional Mutagenesis - Definitive Vector Study	INSERTMUT3	50	17
Insertional mutagenesis (LTR/SIN vectors)	INSERTMUT	53	*
Interferon AD (AIDS Initiative)	INTERFERONAD	45	16
Interferon AD + 3'-azido-3'-deoxythymidine (AIDS Initiative)	INTAZTCOMB	45	16
Interferon AD + ddC (AIDS Initiative)	INTDDCCOMB	53	*
Interferon A (AIDS Initiative)	76543-88-9	45	16
Iodinated glycerol	5634-39-9	45	16
Iodoform	75-47-8	45	16
Ionic Liquid: 1-Butyl-3-methylimidazolium Chloride	79917-90-1	53	*
Ionic Liquid: 1-Butyl-3-methylimidazolium Chloride	79917-90-1	38	16
Ionic Liquid: 1-Butyl-1-methylpyrrolidinium Chloride	479500-35-1	38	16
Ionic Liquid: 1-Butyl-1-methylpyrrolidinium Chloride	479500-35-1	53	*
Ionic Liquid: N-Butylpyridinium Chloride	1124-64-7	38	16
Ionic Liquid: N-Butylpyridinium Chloride	1124-64-7	53	*
Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride	65039-09-0	38	16
Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride	65039-09-0	53	*
Isobutene	115-11-7	45	16
Isobutyl nitrite	542-56-3	45	16
Isobutyraldehyde	78-84-2	38	16
Isobutyraldehyde	78-84-2	45	16
Isodecyl Diphenyl Phosphate	29761-21-5	53	*
Isoeugenol	97-54-1	45	16
Isophorone	78-59-1	45	16
Isophosphamide	3778-73-2	45	16
Isoprene	78-79-5	38	16
Isoprene	78-79-5	45	16
Isoprene	78-79-5		16
Isopropylated Phenol Phosphate	68937-41-7	53	*
Isopropylated Phenol Phosphate	68937-41-7	33	5
Kava kava extract	9000-38-8	45	16
@ Kelthane (Listed As: Dicofol)	115-32-2	43	16

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@ Kepone (Listed As: Chlordecone)	143-50-0	41	16
@ Killmaster (Listed As: Chlorpyrifos)	2921-88-2	33	5
@ Killmaster (Listed As: Chlorpyrifos)	2921-88-2	33	1
Lasiocarpine	303-34-4	45	16
Lauric acid diethanolamine condensate	120-40-1	45	16
@ Lauric acid diethanolamine condensate (Transgenic LECM) (Listed As: Transgenic LECM (Lauric acid diethanolamine condensate))	120-40-1	55	*
@ Lauric acid diethanolamine condensate (Transgenic LECM) (Listed As: Transgenic LECM (Lauric acid diethanolamine condensate))	120-40-1	55	*
Lead(2+) acetate	301-04-2	53	*
Lead contaminated soil	PBCONTAMSOIL	53	*
Lead dimethyldithiocarbamate	19010-66-3	45	16
Lead ores	LEADORES	53	*
Lead oxide	1317-36-8	53	*
Lead sulfide	1314-87-0	53	*
Lead sulfide	1314-87-0	53	*
Leucomalachite green	129-73-7	45	16
Leucomalachite green	129-73-7	38	16
Libby Amphibole 2007	LA2007	33	5
Libby Amphibole 2007	LA2007	33	5
D-Limonene	5989-27-5	45	16
Lindane	58-89-9	45	16
Lipopolysaccharides from Escherichia coli	ECOLI_LPS	53	*
Lithocholic acid	434-13-9	45	16
Locust bean gum	9000-40-2	45	16
Lomustine	13010-47-4	50	17
1020 Long Multiwalled Carbon Nanotube	L-MWNT-1020	38	16
1020 Long Multiwalled Carbon Nanotube	L-MWNT-1020	34	7
@ Lorsban (Listed As: Chlorpyrifos)	2921-88-2	33	5
@ Lorsban (Listed As: Chlorpyrifos)	2921-88-2	33	1
@ Low isoflavone soy protein powder (Prevention 6) (Listed As: Prevention 6 (low isoflavone soy protein powder))	ISOFLAVSOYPT	54	*
@ Luperox TBH70 (Listed As: tert-Butyl hydroperoxide)	75-91-2	52	*
@ Luperox TBH70 (Listed As: tert-Butyl hydroperoxide)	75-91-2	52	*
Magnetic fields (EMF)	ELECTROMAG	45	16
Magnetic fields (EMF)	ELECTROMAG	53	*
Magnetic fields (EMF)	ELECTROMAG	38	16
Magnetic fields + DMBA initiation promotion	EMF+DMBA	38	16
Malachite green	569-64-2	45	16

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Methylene bis(thiocyanate)	6317-18-6	38	16
Methylene blue trihydrate	7220-79-3	54	*
Methylene blue trihydrate	7220-79-3	54	*
Methylene blue trihydrate	7220-79-3	45	16
Methylene chloride	75-09-2	45	16
4,4'-Methylenedianiline dihydrochloride	13552-44-8	45	16
Methyl ethyl ketone peroxide	1338-23-4	38	16
Methyl ethyl ketoxime	96-29-7	38	16
Methyleugenol	93-15-2	54	*
Methyleugenol	93-15-2	38	16
Methyleugenol	93-15-2	45	16
Methyleugenol (TGMX rat liver evaluation)	93-15-2	54	*
2-Methylimidazole	693-98-1	38	16
2-Methylimidazole	693-98-1	45	16
4-Methylimidazole	822-36-6	38	16
4-Methylimidazole	822-36-6	45	16
Methyl isobutyl ketone	108-10-1	45	16
Methyl isocyanate	624-83-9	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	54	*
3-Methyl-6-methoxy-2-amino-benzothiazolium chloride	EMTDP-76	54	*
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
Methylphenidate hydrochloride	298-59-9	38	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	54	*
alpha-Methylstyrene	98-83-9	45	16
Methyl trans-styryl ketone	1896-62-4	54	*
Methyl trans-styryl ketone	1896-62-4	54	*
Methyl trans-styryl ketone	1896-62-4	45	16
Methyl vinyl ketone	78-94-4	54	*
@ N-Methyl-N'-nitro-N-nitrosoguanidine (MNNG) (Listed As: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG))	INIT/PROM	45	16
@ N-Methyl-N'-nitro-N-nitrosoguanidine (MNNG) (Listed As: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG))	INIT/PROM	45	16
@ N-Methyl-N'-nitro-N-nitrosoguanidine (MNNG) (Listed As: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG))	INIT/PROM	45	16
Mexacarbate	315-18-4	45	16
Michler's ketone	90-94-8	46	16
Microbiome	MICROBIOME	33	5
Microcystin-LA (TGMX)	96180-79-9	54	*
Microcystin-LR (TGMX)	101043-37-2	54	*
Microcystin mixture (TGMX)	MICROCYSTNMX	54	*
Milk thistle extract	84604-20-6	46	16
Milk thistle extract	84604-20-6	54	*
Mirex	2385-85-5	46	16
Mitomycin C	50-07-7	50	17
MIXED XYLENES	MIXEDXYLENES	33	5
Molybdenum trioxide	1313-27-5	38	16
Molybdenum trioxide	1313-27-5	46	16
Monochloroacetic acid	79-11-8	46	16
Monuron	150-68-5	46	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	54	*
@ MX (Listed As: 3-Chloro-4-(dichloromethyl)-5-hydroxy-2(5H)-furanone(MX))	77439-76-0	52	*
beta-Myrcene	123-35-3	46	16
Myristicin	607-91-0	54	*
Nalidixic acid	389-08-2	46	16
Nanoscale material (Fullerene-C60 1 micron)	99685-96-8	38	16
Nanoscale material (Fullerene-C60 50 nanometers)	99685-96-8	38	16
Nanoscale material (Quantum dots)	QUANTUMDOTS	54	*
Nanoscale material (Rutile titanium dioxide)	1317-80-2	54	*
Nanoscale Silver	7440-22-4	54	*
Naphthalene	91-20-3	46	16
Naphthalene	91-20-3	46	16
1,5-Naphthalenediamine	2243-62-1	46	16
N-(1-Naphthyl)ethylenediamine dihydrochloride	1465-25-4	46	16
Nattokinase and Lumbrokinase	NATTOLUMBROKINASE	34	6
Navy fuels JP-5	8008-20-6	46	16
@ NBBS (Listed As: N-Butylbenzenesulfonamide)	3622-84-2	33	6
@ NBBS (Listed As: N-Butylbenzenesulfonamide)	3622-84-2	33	6
@ NBPC (Listed As: Ionic Liquid: N-Butylpyridinium Chloride)	1124-64-7	38	16
@ NBPC (Listed As: Ionic Liquid: N-Butylpyridinium Chloride)	1124-64-7	53	*

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@ 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	54	*
6-Nitrobenzimidazole	94-52-0	46	16
m-Nitrobenzoic acid	121-92-6	54	*
p-Nitrobenzoic acid	62-23-7	38	16
p-Nitrobenzoic acid	62-23-7	46	16
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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	54	*
5-(4-Nitrophenyl)-2,4-pentadien-1-al (NPPD)	2608-48-2	54	*
3-Nitropropionic acid	504-88-1	46	16
1-Nitropyrene	5522-43-0	38	16
N-Nitrosodiethanolamine	1116-54-7	54	*
N-Nitrosodimethylamine (TGMX rat liver evaluation)	62-75-9	54	*
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	38	16
o-Nitrotoluene	88-72-2	38	16
o-Nitrotoluene	88-72-2	38	16
o-Nitrotoluene	88-72-2	46	16
p-Nitrotoluene	99-99-0	54	*
p-Nitrotoluene	99-99-0	39	16
p-Nitrotoluene	99-99-0	46	16
5-Nitro-o-toluidine	99-55-8	46	16

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@ NNK (Listed As: Ozone/NNK)	OZONNNKCOMB	46	16
@ NTA (Listed As: Nitrilotriacetic acid (NTA))	139-13-9	46	16
NTP-2000 diet	DIET2000	54	*
NTP 90 diet study	DIET90	50	17
NTP 91/92 diet study	DIET9192	50	17
NTP-88 diet study (EGMBE)	DIET88+EGMBE	54	*
NTP-88 diet study (EGMEE)	DIET88+EGMEE	54	*
NTP-88 diet study (EGMME)	DIET88+EGMME	54	*
NTP-88 diet study (m-Nitrotoluene)	DIET88+MNITR	54	*
NTP-88 diet study (o-Nitrotoluene)	DIET88+ONITR	54	*
NTP-88 diet study (p-Nitrotoluene)	DIET88+PNITR	54	*
Ochratoxin A	303-47-9	46	16
Phenolic Benzotriazoles (Octrizole)	3147-75-9	34	6
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	56	*
@ Oleic acid diethanolamine condensate (transgenic LECM) (Listed As: Transgenic LECM (Oleic acid diethanolamine condensate))	93-83-4	56	*
@ 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	54	*
Oxymetholone	434-07-1	46	16
Oxytetracycline hydrochloride	2058-46-0	46	16
Ozone	10028-15-6	46	16
Ozone	10028-15-6	46	16
Ozone/NNK	OZONNNKCOMB	46	16
Parathion	56-38-2	46	16
@ 2,5-PCADPE (Listed As: 2,5-Pyridinedicarboxylic Acid, Dipropyl Ester)	136-45-8	55	*
@ PCB 126/PECDF mixture (TEF transgenics) (Listed As: TEF transgenics (PCB 126 / PECDF mixture))	TEFTGMIXTURE	55	*
@ PCB 126 (TEF transgenics) (Listed As: TEF transgenics (PCB 126))	57465-28-8	55	*

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

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CHEMICAL NAME	CASRN	PAGE	REF
@ PCB 126 (Toxic equivalency factor evaluation) (Listed As: Toxic equivalency factor evaluation ((PCB 126) 3,3',4,4',5-pentachlorobiphenyl))	57465-28-8	48	16
@ 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
@ PCBTF (Listed As: p-Chloro-a,a,a-trifluorotoluene)	98-56-6	37	16
@ PCBTF (Listed As: p-Chloro-a,a,a-trifluorotoluene)	98-56-6	42	16
@ PCBTF (Listed As: p-Chloro-a,a,a-trifluorotoluene)	98-56-6	37	16
@ PCBTF (Listed As: p-Chloro-a,a,a-trifluorotoluene)	98-56-6	37	16
@ PCB-118 (Toxic equivalency factor evaluation) (Listed As: Toxic equivalency factor evaluation (PCB 118))	31508-00-6	48	16
PCN 66/67 comparison study	PCNCOMPARISN	54	*
@ PCTFT (Listed As: p-Chloro-a,a,a-trifluorotoluene)	98-56-6	37	16
@ PCTFT (Listed As: p-Chloro-a,a,a-trifluorotoluene)	98-56-6	42	16
@ PCTFT (Listed As: p-Chloro-a,a,a-trifluorotoluene)	98-56-6	37	16
@ PCTFT (Listed As: p-Chloro-a,a,a-trifluorotoluene)	98-56-6	37	16
@ PECDF (TEF transgenics) (Listed As: TEF transgenics (PECDF))	57117-31-4	55	*
Penicillin VK	132-98-9	46	16
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]	32534-81-9	46	16
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]	32534-81-9	54	*
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]	32534-81-9	54	*
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]	32534-81-9	54	*
@ Pentabromoethane (Halogenated ethanes CS) (Listed As: Halogenated ethanes CS (Pentabromoethane))	75-95-6	38	16
Pentachloroanisole	1825-21-4	46	16
Pentachlorobenzene	608-93-5	39	16
3,3,4,4,5-Pentachlorobiphenyl (PCB 126)	57465-28-8	54	*
@ Pentachlorodibenzofuran (Toxic equivalency factor evaluation) (Listed As: Toxic equivalency factor evaluation (PECDF (Pentachlorodibenzofuran)))	57117-31-4	48	16
Pentachloroethane	76-01-7	46	16

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@ Pentachloroethane (Halogenated ethanes CS) (Listed As: Halogenated ethanes CS (Pentachloroethane))	76-01-7	38	16
Pentachloronitrobenzene	82-68-8	46	16
Pentachloronitrobenzene	82-68-8	46	16
Pentachlorophenol, Dowicide EC-7	87-86-5	46	16
Pentachlorophenol, DP-2	87-86-5	39	16
Pentachlorophenol, purified	87-86-5	39	16
Pentachlorophenol, purified	87-86-5	46	16
Pentachlorophenol, technical	87-86-5	46	16
@ Pentachlorophenol (Transgenic LECM) (Listed As: Transgenic LECM (Pentachlorophenol))	87-86-5	56	*
@ Pentachlorophenol (Transgenic LECM) (Listed As: Transgenic LECM (Pentachlorophenol))	87-86-5	56	*
Pentaerythritol tetranitrate	78-11-5	46	16
Pentaerythritol triacrylate	3524-68-3	35	16
Pentaerythritol triacrylate	3524-68-3	35	16
2,3-Pentanedione	600-14-6	34	12
@ Perchloroethylene (Listed As: Tetrachloroethylene)	127-18-4	48	16
@ Perchloroethylene (Listed As: Tetrachloroethylene)	127-18-4	48	16
Perfluorobutane sulfonic acid (PFBS)	375-73-5	39	16
Perfluorodecanoic acid (PFDA)	335-76-2	39	16
Perfluorohexanesulfonamide	41997-13-1	34	6
Perfluorohexane sulfonate potassium salt (PFHSKslt)	3871-99-6	39	16
Perfluorohexanoic acid (PFHXA)	307-24-4	33	5
Perfluorohexanoic acid (PFHXA)	307-24-4	33	1
Perfluorohexanoic acid (PFHXA)	307-24-4	39	16
Perfluorononanoic acid (PFNA)	375-95-1	39	16
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	39	16
Perfluorooctanoic acid (PFOA)	335-67-1	46	16
Perfluorooctanoic acid (PFOA)	335-67-1	46	16
Perfluorooctanoic acid (PFOA)	335-67-1	54	*
Perfluorooctanoic acid (PFOA)	335-67-1	39	16
Perfluorooctanoic acid (PFOA)	335-67-1	34	6
Peroxisome project (Dibutyl phthalate)	84-74-2	54	*
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
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@ PETA (Listed As: Pentaerythritol triacrylate)	3524-68-3	35	16

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@ PFDA (Listed As: Perfluorodecanoic acid (PFDA))	335-76-2	39	16
@ PFNA (Listed As: Perfluorononanoic acid (PFNA))	375-95-1	39	16
@ 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	47	16
Phenobarbital	50-06-6	54	*
Phenol	108-95-2	47	16
Phenolic Benzotriazoles (2-(2H-Benzotriazol-2-yl)phenol)	10096-91-0	34	6
Phenolic Benzotriazoles (2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylpropyl)phenol)	25973-55-1	34	6
Phenolic Benzotriazoles (2-(2H-benzotriazol-2-yl)-4,6-bis(1-methyl-1-phenylethyl)phenol)	70321-86-7	34	6
Phenolic Benzotriazoles (2-(5-Chloro-2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl)phenol)	3864-99-1	34	6
Phenolic Benzotriazoles (Bumetrizole)	3896-11-5	34	6
Phenolphthalein	77-09-8	39	16
Phenolphthalein	77-09-8	47	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	35	16
Phenoxybenzamine hydrochloride	63-92-3	47	16
Phenylbutazone	50-33-9	47	16
p-Phenylenediamine dihydrochloride	624-18-0	47	16
Phenylephrine hydrochloride	61-76-7	47	16
1-Phenyl-3-methyl-5-pyrazolone	89-25-8	47	16
N-Phenyl-2-naphthylamine	135-88-6	47	16
o-Phenylphenol	90-43-7	47	16
N-Phenyl-p-phenylenediamine	101-54-2	47	16
1-Phenyl-2-thiourea	103-85-5	47	16
@ Phenytoin (Listed As: 5,5-Diphenylhydantoin (phenytoin))	57-41-0	43	16
@ Phorbol myristate acetate (Listed As: Tetradecanoyl phorbol acetate (TPA))	16561-29-8	55	*
@ Phos-Chek 3% AFFF MILSPEC (Listed As: Aqueous Film Forming Foams)	AFFF	33	6
@ Phos-Chek 3% AFFF MILSPEC (Listed As: Aqueous Film Forming Foams)	AFFF	33	6
@ Phos-Chek 3% AFFF MILSPEC (Listed As: Aqueous Film Forming Foams)	AFFF	33	6
@ Phos-Chek 3% AFFF MILSPEC (Listed As: Aqueous Film Forming Foams)	AFFF	33	6
@ Phos-Chek 3% AFFF MILSPEC (Listed As: Aqueous Film Forming Foams)	AFFF	33	6
Phosphamidon	13171-21-6	47	16
Phosphine	7803-51-2	54	*
Photodieldrin	13366-73-9	47	16
ortho-Phthalaldehyde	643-79-8	39	16
Phthalamide	88-96-0	47	16
Phthalic anhydride	85-44-9	47	16
Picloram	1918-02-1	47	16
beta-Picoline	108-99-6	47	16
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Piperonyl sulfoxide	120-62-7	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
Polyvinyl alcohol	9002-89-5	47	16
Prednisone	53-03-2	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	*
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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	*
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Prevention 4 (Melatonin + curcumin)	MEL+CURCUMIN	55	*
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Procarbazine hydrochloride	366-70-1	47	16

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Promethazine hydrochloride	58-33-3	47	16
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@ Propylene dichloride (Listed As: 1,2-Dichloropropane (propylene dichloride))	78-87-5	43	16
Propylene glycol mono-t-butyl ether	57018-52-7	47	16
Propylene glycol phenyl ether	770-35-4	39	16
1,2-Propylene oxide	75-56-9	47	16
Propyl gallate	121-79-9	47	16
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Pulegone	89-82-7	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	56	*
@ Pyridine (Transgenic LECM) (Listed As: Transgenic LECM (Pyridine))	110-86-1	56	*
Pyrilamine	91-84-9	47	16
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@ Pyrinex (Listed As: Chlorpyrifos)	2921-88-2	33	5
@ Pyrinex (Listed As: Chlorpyrifos)	2921-88-2	33	1
Pyrogallol	87-66-1	47	16
QT drugs (bepridil hydrochloride)	74764-40-2	55	*
QT drugs (diltiazem hydrochloride)	33286-22-5	55	*
QT drugs (Loratadine)	79794-75-5	55	*
QT drugs (Lovastatin)	75330-75-5	55	*
QT drugs (sotalol hydrochloride)	959-24-0	55	*
QT drugs (terfenadine)	50679-08-8	55	*
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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

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@ 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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Reserpine	50-55-5	55	*
Resorcinol	108-46-3	47	16
@ 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	*
Resveratrol	501-36-0	35	13
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Retinoid project 3 (Retinol acetate)	127-47-9	55	*
Retinoid project 4 (4-(Hydroxyphenyl)retinamide)	65646-68-6	55	*
Retinoid project 5 (4-(Hydroxyphenyl)retinamide)	65646-68-6	55	*
Retinoid project 6 (Arotinoid)	125533-88-2	55	*
Retinoid project 3 (Arotinoid)	125533-88-2	55	*
Retinoid project 5 (Arotinoid)	125533-88-2	55	*
Retinoid project 6 (4-HPR)	65646-68-6	55	*
All-trans-retinyl palmitate	79-81-2	47	16
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Retroviral vectors	RETROVIRVECT	55	*
Retroviral vectors	RETROVIRVECT	55	*
Retroviral vectors	RETROVIRVECT	55	*
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@ 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	38	16
@ Ritalin hydrochloride (Listed As: Methylphenidate hydrochloride)	298-59-9	45	16
Rotenone	83-79-4	50	17
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	37	16
@ Roundup® (Listed As: Glyphosate)	1071-83-6	37	16

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@ Sunett (Listed As: Transgenic Model Evaluation II (Acesulfame Potassium))	55589-62-3	35	16
@ Suscon (Listed As: Chlorpyrifos)	2921-88-2	33	5
@ Suscon (Listed As: Chlorpyrifos)	2921-88-2	33	1
Talc	14807-96-6	48	16
Tara gum	39300-88-4	48	16
@ TBA (Listed As: tert-Butyl alcohol)	75-65-0	41	16
@ TBA (Listed As: tert-Butyl alcohol)	75-65-0	36	16
@ TBBC (Listed As: 4,4-Thiobis(6-tert-butyl-m-cresol))	96-69-5	55	*
@ 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	*
@ TBE (Listed As: Halogenated ethanes CS (1,1,2,2-Tetrabromoethane))	79-27-6	38	16
@ TCAB (Listed As: 3,3',4,4'-Tetrachloroazobenzene)	14047-09-7	55	*
@ TCAB (Listed As: 3,3',4,4'-Tetrachloroazobenzene)	14047-09-7	39	16
@ TCAB (Listed As: 3,3',4,4'-Tetrachloroazobenzene)	14047-09-7	39	16
@ TCAB (Listed As: 3,3',4,4'-Tetrachloroazobenzene)	14047-09-7	48	16
@ TCAB (Listed As: 3,3',4,4'-Tetrachloroazobenzene)	14047-09-7	34	6
@ TCAOB (Listed As: 3,3',4,4'-Tetrachloroazoxybenzene)	21232-47-3	39	16
@ TCDD (Listed As: Transgenic Model Evaluation (2,3,7,8-Tetrachlorodibenzodioxin))	1746-01-6	56	*
@ TCDD (Listed As: Transgenic Model Evaluation (2,3,7,8-Tetrachlorodibenzodioxin))	1746-01-6	56	*
@ TCDD (Listed As: Transgenic Model Evaluation (2,3,7,8-Tetrachlorodibenzodioxin))	1746-01-6	56	*
@ TCDD (Listed As: Transgenic Model Evaluation (2,3,7,8-Tetrachlorodibenzodioxin))	1746-01-6	57	*
@ TCDD (TEF transgenics) (Listed As: TEF transgenics (TCDD))	1746-01-6	55	*
@ TCDD (Toxic equivalency factor evaluation) (Listed As: Toxic equivalency factor evaluation (TCDD))	1746-01-6	48	16
@ TCP (Listed As: Tricresyl Phosphate)	1330-78-5	57	*
@ TCP (Listed As: Tricresyl Phosphate)	1330-78-5	57	*
@ TCP (Listed As: Tricresyl Phosphate)	1330-78-5	49	16
@ TCPP (Listed As: Tris(Chloropropyl) Phosphate (TCPP))	13674-84-5	57	*
@ TCPP (Listed As: Tris(Chloropropyl) Phosphate (TCPP))	13674-84-5	35	13
Tebufenpyrad	119168-77-3	55	*
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Toxic equivalency factor evaluation (PCB 118)	31508-00-6	48	16
Toxic equivalency factor evaluation (PCB Mixture; PCB 126/PCB 118)	TEFPCBMIX	48	16
Toxic equivalency factor evaluation (TCDD)	1746-01-6	48	16
TEF transgenics (PCB 126)	57465-28-8	55	*
TEF transgenics (PCB 126 / PECDF mixture)	TEFTGMIXTURE	55	*
TEF transgenics (PECDF)	57117-31-4	55	*
TEF transgenics (TCDD)	1746-01-6	55	*
@ TELONE II (Listed As: 1,3-Dichloropropene (Telone II))	542-75-6	43	16
@ TEMIK (Listed As: Aldicarb)	116-06-3	40	16
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Tetrabromobisphenol A	79-94-7	34	6
Tetrabromobisphenol A	79-94-7	48	16
Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)	21850-44-2	35	12
Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)	21850-44-2	39	16
2,2',4,4'-Tetrabromodiphenyl Ether	5436-43-1	55	*
2,2',4,4'-Tetrabromodiphenyl Ether	5436-43-1	55	*
2,2',4,4'-Tetrabromodiphenyl Ether	5436-43-1	35	12
@ 1,1,1,2-Tetrabromoethane (Halogenated ethanes CS) (Listed As: Halogenated ethanes CS (1,1,1,2-Tetrabromoethane))	630-16-0	38	16
Bis(2-ethylhexyl) tetrabromophthalate	26040-51-7	35	12

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3,3',4,4'-Tetrachloroazobenzene	14047-09-7	39	16
3,3',4,4'-Tetrachloroazobenzene	14047-09-7	39	16
3,3',4,4'-Tetrachloroazobenzene	14047-09-7	48	16
3,3',4,4'-Tetrachloroazobenzene	14047-09-7	34	6
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Tetrachlorodiphenylethane	72-54-8	48	16
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1,1,2,2-Tetrachloroethane	79-34-5	48	16
1,1,2,2-Tetrachloroethane	79-34-5	39	16
1,1,2,2-Tetrachloroethane	79-34-5	55	*
1,1,2,2-Tetrachloroethane	79-34-5	39	16
@ 1,1,2,2-Tetrachloroethane (Halogenated ethanes CS) (Listed As: Halogenated ethanes CS (1,1,2,2-Tetrachloroethane))	79-34-5	38	16
Tetrachloroethylene	127-18-4	48	16
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	55	*
@ Tetradecanoylphorbol acetate (TPA) (Listed As: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG))	INIT/PROM	45	16
@ Tetradecanoylphorbol acetate (TPA) (Listed As: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG))	INIT/PROM	45	16
@ Tetradecanoylphorbol acetate (TPA) (Listed As: Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG))	INIT/PROM	45	16
@ Tetradecanoyl phorbol acetate (TPA) (Transgenic LECM) (Listed As: Transgenic LECM (Tetradecanoyl phorbol acetate (TPA)))	16561-29-8	56	*
Tetraethylthiuram disulfide	97-77-8	48	16
Tetrafluoroethylene	116-14-3	39	16
Tetrafluoroethylene	116-14-3	48	16
1-trans-delta-9-Tetrahydrocannabinol	1972-08-3	39	16
1-trans-delta-9-Tetrahydrocannabinol	1972-08-3	48	16

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CHEMICAL NAME	CASRN	PAGE	REF
Tetrahydrofuran	109-99-9	55	*
Tetrahydrofuran	109-99-9	39	16
Tetrahydrofuran	109-99-9	48	16
1,1,2,2-Tetrahydroperfluoro-1-dodecanol	865-86-1	34	6
Tetrakis(hydroxymethyl)phosphonium chloride	124-64-1	48	16
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	54	*
@ TGMX rat liver evaluation (N-Nitrosodimethylamine) (Listed As: N-Nitrosodimethylamine (TGMX rat liver evaluation))	62-75-9	54	*
Thallium (I) sulfate	7446-18-6	33	5
Thallium (I) sulfate	7446-18-6	33	5
Theophylline	58-55-9	39	16
Theophylline	58-55-9	39	16
Theophylline	58-55-9	48	16
4,4-Thiobis(6-tert-butyl-m-cresol)	96-69-5	55	*
4,4-Thiobis(6-tert-butyl-m-cresol)	96-69-5	48	16
4,4'-Thiodianiline	139-65-1	48	16
beta-Thioguanidine deoxyriboside	789-61-7	48	16
Thiophene	110-02-1	55	*
@ thio-TEPA (Listed As: tris(Aziridinyl)-phosphine sulfide (Thio-TEPA))	52-24-4	49	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
alpha/beta Thujone mixture	76231-76-0	55	*
alpha/beta Thujone mixture	76231-76-0	39	16
alpha/beta Thujone mixture	76231-76-0	48	16
Titanium dioxide	13463-67-7	48	16
Titanocene dichloride	1271-19-8	48	16
@ TMPTA (Listed As: Trimethylolpropane triacrylate)	15625-89-5	35	16
@ TMPTA (Listed As: Trimethylolpropane triacrylate)	15625-89-5	35	16
@ TMPTA (Listed As: Trimethylolpropane triacrylate)	15625-89-5	49	16
D-alpha-Tocopheryl acetate	58-95-7	55	*
Tolazamide	1156-19-0	48	16
Tolbutamide	64-77-7	48	16
Toluene	108-88-3	48	16
Toluene	108-88-3	39	16

@ 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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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	55	*
p-Tolylurea	622-51-5	50	17
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	*
Transgenic LECM (Coconut oil acid diethanolamine condensate)	68603-42-9	55	*
Transgenic LECM (Coconut oil acid diethanolamine condensate)	68603-42-9	55	*
Transgenic LECM (Furfuryl alcohol)	98-00-0	55	*
Transgenic LECM (Lauric acid diethanolamine condensate)	120-40-1	55	*
Transgenic LECM (Lauric acid diethanolamine condensate)	120-40-1	55	*
Transgenic LECM (Oleic acid diethanolamine condensate)	93-83-4	56	*
Transgenic LECM (Oleic acid diethanolamine condensate)	93-83-4	56	*
Transgenic LECM (Pentachlorophenol)	87-86-5	56	*
Transgenic LECM (Pentachlorophenol)	87-86-5	56	*
Transgenic LECM (Pyridine)	110-86-1	56	*
Transgenic LECM (Pyridine)	110-86-1	56	*
Transgenic LECM (Tetradecanoyl phorbol acetate (TPA))	16561-29-8	56	*
Transgenic LEP (p-Anisidine hydrochloride)	20265-97-8	56	*
Transgenic LEP (Cyclosporin A)	59865-13-3	56	*
Transgenic LEP (Melphalan)	148-82-3	56	*
Transgenic LEP (p-Cresidine)	120-71-8	56	*
Transgenic LEP (Resorcinol)	108-46-3	56	*
Transgenic LEP (Vinyl carbamate)	15805-73-9	56	*
Transgenic model evaluation (p-Anisidine HCl)	20265-97-8	56	*
Transgenic model evaluation (Bromodichloromethane)	75-27-4	56	*
Transgenic model evaluation (Bromodichloromethane)	75-27-4	56	*

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CHEMICAL NAME	CASRN	PAGE	REF
Transgenic model evaluation (Cyclophosphamide monohydrate)	6055-19-2	56	*
Transgenic model evaluation (Cyclophosphamide monohydrate)	6055-19-2	56	*
Transgenic model evaluation (Cyclosporin A)	59865-13-3	56	*
Transgenic model evaluation (Cyclosporin A)	59865-13-3	56	*
Transgenic model evaluation (DES)	56-53-1	56	*
Transgenic model evaluation (DES)	56-53-1	56	*
Transgenic model evaluation (DES)	56-53-1	56	*
Transgenic model evaluation (DES)	56-53-1	56	*
Transgenic model evaluation (2,4-Diaminotoluene)	95-80-7	56	*
Transgenic model evaluation (2,4-Diaminotoluene)	95-80-7	56	*
Transgenic model evaluation (2,6-Diaminotoluene 2HCl)	15481-70-6	56	*
Transgenic model evaluation (2,6-Diaminotoluene 2HCl)	15481-70-6	56	*
Transgenic model evaluation (Di(2-ethylhexyl) phthalate)	117-81-7	56	*
Transgenic model evaluation (Di(2-ethylhexyl) phthalate)	117-81-7	56	*
Transgenic model evaluation (Ethinyl estradiol)	57-63-6	56	*
Transgenic model evaluation (Ethinyl estradiol)	57-63-6	56	*
Transgenic model evaluation (8-Hydroxyquinoline)	148-24-3	56	*
Transgenic model evaluation (8-Hydroxyquinoline)	148-24-3	56	*
Transgenic Model Evaluation II (Acesulfame Potassium)	55589-62-3	35	16
Transgenic model evaluation II (Aspartame)	22839-47-0	35	16
Transgenic model evaluation II (Aspartame)	22839-47-0	35	16
Transgenic model evaluation II (Benzene)	71-43-2	35	16
Transgenic model evaluation II (Glycidol)	556-52-5	35	16
Transgenic model evaluation II (Phenolphthalein)	77-09-8	35	16
Transgenic model evaluation (Melphalan)	148-82-3	56	*
Transgenic model evaluation (Melphalan)	148-82-3	56	*
Transgenic model evaluation (Melphalan)	148-82-3	56	*
Transgenic model evaluation (Melphalan)	148-82-3	56	*
Transgenic model evaluation (Melphalan)	148-82-3	56	*
Transgenic model evaluation (N-Methylolacrylamide)	924-42-5	56	*
Transgenic model evaluation (N-Methylolacrylamide)	924-42-5	56	*
Transgenic model evaluation (Methylphenidate hydrochloride)	298-59-9	56	*
Transgenic model evaluation (Phenolphthalein)	77-09-8	56	*

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CHEMICAL NAME	CASRN	PAGE	REF
Transgenic model evaluation (Resorcinol)	108-46-3	56	*
Transgenic model evaluation (Resorcinol)	108-46-3	56	*
Transgenic model evaluation (Rotenone)	83-79-4	56	*
Transgenic model evaluation (Rotenone)	83-79-4	56	*
Transgenic Model Evaluation (2,3,7,8-Tetrachlorodibenzodioxin)	1746-01-6	56	*
Transgenic Model Evaluation (2,3,7,8-Tetrachlorodibenzodioxin)	1746-01-6	56	*
Transgenic Model Evaluation (2,3,7,8-Tetrachlorodibenzodioxin)	1746-01-6	56	*
Transgenic Model Evaluation (2,3,7,8-Tetrachlorodibenzodioxin)	1746-01-6	57	*
Transgenic model evaluation (WY-14643)	50892-23-4	57	*
Transgenic model evaluation (WY-14643)	50892-23-4	57	*
Transgenic LECM (diethanolamine)	111-42-2	57	*
Tremolite	14567-73-8	48	16
Triamterene	396-01-0	57	*
Triamterene	396-01-0	48	16
Tribromomethane	75-25-2	48	16
Tricaprylin	538-23-8	48	16
Trichlorfon	52-68-6	57	*
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	57	*
Trichloroethylene	79-01-6	57	*
Trichlorofluoromethane	75-69-4	48	16
2,4,6-Trichlorophenol	88-06-2	49	16
1,2,3-Trichloropropane	96-18-4	57	*
1,2,3-Trichloropropane	96-18-4	49	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
Triclosan	3380-34-5	57	*
Triclosan	3380-34-5	57	*
Triclosan	3380-34-5	34	6
Tricombination ABC:DTG:3TC	TRICOMBOHIV2	33	5
Tricresyl Phosphate	1330-78-5	57	*
Tricresyl Phosphate	1330-78-5	57	*

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Tricresyl Phosphate	1330-78-5	49	16
Triethanolamine	102-71-6	57	*
Triethanolamine	102-71-6	57	*
Triethanolamine	102-71-6	57	*
Triethanolamine	102-71-6	49	16
Triethanolamine	102-71-6	49	16
Triethylamine	121-44-8		16
Trifluralin	1582-09-8	49	16
Trimellitic anhydride	552-30-7	57	*
Trimellitic anhydride	552-30-7	57	*
2,4,5-Trimethylaniline	137-17-7	49	16
1,2,4-trimethylbenzene	95-63-6	34	6
Trimethylolpropane triacrylate	15625-89-5	35	16
Trimethylolpropane triacrylate	15625-89-5	35	16
Trimethylolpropane triacrylate	15625-89-5	49	16
Trimethylphosphate	512-56-1	49	16
Trimethylsilyldiazomethane (TMSD)	18107-18-1	39	16
Trimethylthiourea	2489-77-2	49	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	57	*
Triphenyl Phosphate	115-86-6	57	*
Triphenyl Phosphate	115-86-6	33	5
Triphenyl Phosphate	115-86-6	33	5
Triphenyl Phosphate	115-86-6	33	1
Triphenyl Phosphate	115-86-6	34	6
Triphenyltin hydroxide	76-87-9	49	16
Triprolidine	486-12-4	49	16
tris(Aziridinyl)-phosphine sulfide (Thio-TEPA)	52-24-4	49	16
Tris(2-Chloroethyl) Phosphate	115-96-8	49	16
Tris(Chloropropyl) Phosphate (TCPP)	13674-84-5	57	*
Tris(Chloropropyl) Phosphate (TCPP)	13674-84-5	35	13
tris(2,3-Dibromopropyl) phosphate	126-72-7	49	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	35	12
(+)-Usnic Acid	7562-61-0	35	12
Valerian (Valeriana officinalis L.) root extract	8057-49-6	34	6
Vanadium pentoxide	1314-62-1	39	16
Vanadium pentoxide	1314-62-1	49	16
Vanadyl sulfate	27774-13-6	34	6
Vinblastine	865-21-4	50	17
Vincamine	1617-90-9	57	*

@ 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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Vinclozolin	50471-44-8	57	*
Vincristine	57-22-7	51	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	57	*
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	55	*
Water Damaged Building Mold Mixture	H2ODAMAGEMLD	33	1
Water disinfection byproducts (Bromochloroacetic acid)	5589-96-8	49	16
Water disinfection byproducts (Bromodichloroacetic Acid)	71133-14-7	34	6
Water disinfection byproducts (Bromodichloroacetic Acid)	71133-14-7	57	*
Water disinfection byproducts (Bromodichloroacetic Acid)	71133-14-7	49	16
Water disinfection byproducts (Bromodichloromethane)	75-27-4	57	*
Water disinfection byproducts (Bromodichloromethane)	75-27-4	57	*
Water disinfection byproducts (Bromodichloromethane)	75-27-4	49	16
Water disinfection byproducts (Dibromoacetic acid)	631-64-1	57	*
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	57	*
Water disinfection byproducts (Sodium chlorate)	7775-09-9	49	16
Water disinfection model (Bromodichloromethane)	75-27-4	35	16
Water disinfection model (Bromodichloromethane)	75-27-4	35	16
Water disinfection model (Bromodichloromethane)	75-27-4	35	16
Water disinfection model (Bromodichloromethane)	75-27-4	35	16
Water disinfection model (Bromodichloromethane)	75-27-4	35	16
Water disinfection model (Dichloroacetic acid)	79-43-6	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	57	*

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CHEMICAL NAME	CASRN	PAGE	REF
@ West Fork Mine Ore (Missouri) (Listed As: Lead ores)	LEADORES	53	*
Wollastonite calcium silicates	13983-17-0	51	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	57	*
@ WY-14643 (Transgenic model evaluation) (Listed As: Transgenic model evaluation (WY-14643))	50892-23-4	57	*
Wyeth 14,643 (WY)	50892-23-4	39	16
Wyeth 14,643 (WY)	50892-23-4	57	*
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
@ 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	49	16
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. 1

Chemicals Selected for General Toxicology Study by the NTP

CHEMICAL NAME	PRIMARY CAS NUMBER
Allylamine	107-11-9
Allylamine	107-11-9
Chlorpyrifos	2921-88-2
Damp Building Mold Mixture	DAMPBLDGMOLD
Ephedra sinica extract	85940-38-1
Perfluorohexanoic acid (PFHXA)	307-24-4
Raloxifene hydrochloride	82640-04-8
Sodium arsenite	7784-46-5
Sodium arsenite	7784-46-5
Stachybotrys chartarum strain 2 mold (atranone chemotype)	STACHYSTRN2
Triphenyl Phosphate	115-86-6
Water Damaged Building Mold Mixture	H2ODAMAGEMLD

Ref No. 5

Short-Term Exposure Studies in Progress

CHEMICAL NAME	PRIMARY CAS NUMBER	ROUTE	SPECIES	RPD D* START DATE	SUBCHR START DATE
Acetaminophen (4-hydroxyacetanilide)	103-90-2	GAV	HSD		09/18A
alpha-Pinene	80-56-8	INHAL	M3 HSD M22	03/18A	11/17A
Aspergillus versicolor mold	ASPERGILLUSV	INHAL	M22		06/21A
Bisphenol A	80-05-7	GAV	HSDE	02/22A	
Bisphenol A	80-05-7	GAV	HSDE		06/22A
Cell Phone Radiation: CDMA	CELLPRADCDMA	WB	M22	08/20A	
Chlorpyrifos	2921-88-2	GAV	HSDE	04/22A	
2-ethyltoluene	611-14-3	INHAL	M22 HSDE	04/18A	02/20A
2-ethyltoluene	611-14-3	INHAL	HSDE		02/22A
Garcinia Cambogia Extract	90045-23-1	FEED	HSD M22		02/19A
Isopropylated Phenol Phosphate	68937-41-7	FEED	HSDE		09/20A
Libby Amphibole 2007	LA2007	INHAL	HSD	09/19A	09/19A
Libby Amphibole 2007	LA2007	INHAL	HSDE		
Microbiome	MICROBIOME	N/A		07/15A	
MIXED XYLENES	MIXEDXYLENES	INHAL	HSD HSDE M22	10/18A	
Perfluorohexanoic acid (PFHXA)	307-24-4	GAV	HSDE	02/22A	
Raloxifene hydrochloride	82640-04-8	GAV	HSDE	04/22A	
Stachybotrys chartarum strain 1 mold (macrocyclic trichothecene chemotype)	STACHYSTRN1	INHAL	M22		04/16A
Thallium (I) sulfate	7446-18-6	WATER	M3 M22 HSD	02/18A	07/19A
Thallium (I) sulfate	7446-18-6	GAV	HSDE	06/22A	
Tricombination ABC:DTG:3TC	TRICOMBOHIV2	GAV	HSDE		05/21A
Triphenyl Phosphate	115-86-6	FEED	HSD		08/21A
Triphenyl Phosphate	115-86-6	GAV	HSDE	03/22A	

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

Ref No. 6

Short-Term Studies Completed: In Review for Further Evaluation

CHEMICAL NAME	PRIMARY CAS NUMBER	ROUTE	SPECIES	RPD D* START DATE	SUBCHR START DATE
2,3-Benzofluorene	243-17-4	GAV	HSD	03/20A	
6:1 Fluorotelomer alcohol	375-82-6	GAV	HSD	03/20A	
Aqueous Film Forming Foams	AFFF	GAV	HSD	03/20A	
Aqueous Film Forming Foams	AFFF	GAV	HSDE	07/20A	
Aqueous Film Forming Foams	AFFF	GAV	HSDE	07/20A	
Aqueous Film Forming Foams	AFFF	GAV	HSDE	07/20A	
Aqueous Film Forming Foams	AFFF	GAV	HSDE	08/20A	
Aqueous Film Forming Foams	AFFF	GAV	HSDE	08/20A	
Phenolic Benzotriazoles (2-(2H-Benzotriazol-2-yl)-4-tert-butylphenol)	3147-76-0	GAV	HSD	02/16A	
Bisphenol AF	1478-61-1	GAV	HSD	04/17A	
Brominated Vegetable Oil	8016-94-2	FEED	HSD		06/17A
N-Butylbenzenesulfonamide	3622-84-2	FEED	M22	02/14A	
N-Butylbenzenesulfonamide	3622-84-2	FEED	M22 HSD	02/14A	02/14A
Di(2-ethylhexyl) Phthalate	117-81-7	GAV	HSD	03/17A	
2,2'-Dimorpholinodiethyl Ether	6425-39-4	GAV	M22	04/16A	
Phenolic Benzotriazoles (Drometrizole)	2440-22-4	GAV	HSD	02/16A	
Ethinyl estradiol	57-63-6	GAV	HSD	04/17A	

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

Ref No. 6

Short-Term Studies Completed: In Review for Further Evaluation

CHEMICAL NAME	PRIMARY CAS NUMBER	ROUTE	SPECIES	RPD D* START DATE	SUBCHR START DATE
Furan	110-00-9	GAV	HSD	07/17A	
Garcinia Cambogia Extract	90045-23-1	FEED	HSD M22	04/14A	
Ginkgo biloba extract	90045-36-6	GAV	FSAS	12/15A	
Goldenseal extract	84603-60-1	GAV	FSAS	12/15A	
Green Tea Extract	GREENTEAEXTR	GAV	FSAS	01/16A	
Phenolic Benzotriazoles (3-(2H-Benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxybenzenepropanoic acid, octyl ester)	84268-23-5	GAV	HSD	01/16A	
Melamine + Cyanuric Acid combination	MELCYANCOMB	GAV	RC		07/11A
Melamine + Cyanuric Acid combination	MELCYANCOMB	GAV	RC		10/15A
Melamine + Cyanuric Acid combination	MELCYANCOMB	GAV	RC		07/15A
Nattokinase and Lumbrokinase	NATTOLUMBROKINASE	GAV	HSD		09/17A
Phenolic Benzotriazoles (Octrizole)	3147-75-9	GAV	HSD	01/16A	
Perfluorohexanesulfonamide	41997-13-1	GAV	HSD	03/20A	
Perfluorooctanoic acid (PFOA)	335-67-1	GAV	HSD	04/17A	
Phenolic Benzotriazoles (2-(2H-Benzotriazol-2-yl)phenol)	10096-91-0	GAV	HSD	01/16A	
Phenolic Benzotriazoles (2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylpropyl)phenol)	25973-55-1	GAV	HSD	01/16A	
Phenolic Benzotriazoles (2-(2H-benzotriazol-2-yl)-4,6-bis(1-methyl-1-phenylethyl)phenol)	70321-86-7	GAV	HSD	01/16A	
Phenolic Benzotriazoles (2-(5-Chloro-2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl)phenol)	3864-99-1	GAV	HSD	01/16A	
Phenolic Benzotriazoles (Bumetrizole)	3896-11-5	GAV	HSD	02/16A	
Sodium Metavanadate	13718-26-8	WATER	M3 HSD	10/14A	01/16A
Stachybotrys chartarum	67892-26-6	INHAL	M22		
Tetrabromobisphenol A	79-94-7	GAV	HSD	11/16A	
3,3',4,4'-Tetrachloroazobenzene	14047-09-7	GAV	HSD	11/16A	
1,1,2,2-Tetrahydroperfluoro-1-dodecanol	865-86-1	GAV	HSD	06/20A	
Triclosan	3380-34-5	GAV	HSD	11/16A	
1,2,4-trimethylbenzene	95-63-6	INHAL	M22 HSD		01/17A
Triphenyl Phosphate	115-86-6	FEED	M22	02/15A	
Valerian (Valeriana officinalis L.) root extract	8057-49-6	GAV	M22		09/15A
Vanadyl sulfate	27774-13-6	WATER	M3 HSD M22	09/14A	04/16A
Water disinfection byproducts (Bromodichloroacetic Acid)	71133-14-7	GAV	HSD	04/17A	

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

Ref No. 7

Long-Term Exposure Studies in Progress

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

Ref No. 10

Long-Term Exposure Studies: Pathology Quality Assessment in Progress

CHEMICAL NAME	PRIMARY CAS NUMBER	ROUTE	SPECIES
Sulfolane	126-33-0	WATER	M3 HSD

Ref No. 12

Short-Term Exposure Studies Scheduled for Peer Review

Short-Term Studies

CHEMICAL NAME	PRIMARY CAS NUMBER	ROUTE	SPECIES	RPT No.
Acetoin	513-86-0	INHAL	RE M3	
Bisphenol S	80-09-1	FEED	M3	
1,2-Bis(2,4,6-tribromophenoxy)ethane	37853-59-1	GAV	HSDE	
Decabromodiphenyl Ether	1163-19-5	GAV	HSDE	
Dimethylamine Borane	74-94-2	DERMAL	HSD M22	
1,2-bis(pentabromophenyl)ethane	84852-53-9	GAV	HSDE	
1,3,5,7,9,11-Hexabromocyclododecane	25637-99-4	GAV	HSDE	
Hexachlorocyclopentadienyl-dibromocyclooctane	51936-55-1	GAV	HSDE	
2,3-Pentanedione	600-14-6	INHAL	RE M3	C08010

Ref No. 12

Short-Term Exposure Studies Scheduled for Peer Review

Short-Term Studies

CHEMICAL NAME	PRIMARY CAS NUMBER	ROUTE	SPECIES	RPT No.
Sulfolane	126-33-0	GAV	HSD M22 O6	C11054_1
2-ethylhexyl-2,3,4,5-tetrabromobenzoate	183658-27-7	GAV	HSDE	
Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)	21850-44-2	GAV	HSD	
2,2',4,4'-Tetrabromodiphenyl Ether	5436-43-1	GAV	HSDE	
Bis(2-ethylhexyl) tetrabromophthalate	26040-51-7	GAV	HSDE	
Usnea Lichen	USNEALICHEN	FEED	MV RC1	
(+)-Usnic Acid	7562-61-0	FEED	MV RC1	

Ref No. 13

Long-Term Exposure Studies Scheduled for Peer Review

CHEMICAL NAME	PRIMARY CAS NUMBER	ROUTE	SPECIES	RPT No.
Aging Cohort Study: 12951/SvlmJ mouse	MOUSEPHENO1	N/A	MR	
Aging Cohort Study: B6C3F1J mouse	MOUSEPHENO6	N/A	63	
Aging Cohort Study: C3H/HeJ mouse	MOUSEPHENO3	N/A	M15	
Aging Cohort Study: C57/BL/6J mouse	MOUSEPHENO4	N/A	MZ	
Aging Cohort Study: CAST/EiJ mouse	MOUSEPHENO5	N/A	M11	
Aging Cohort Study: NZO/HiLtJ mouse	MOUSEPHENO10	N/A	61	
Aging Cohort Study: PWK/PhJ mouse	MOUSEPHENO8	N/A	62	
Aging Cohort Study: WSB/EIJ mouse	MOUSEPHENO9	N/A	M14	
Aging Cohort Study: A/J mouse	MOUSEPHENO2	N/A	MF	
Aging Cohort Study: NOD. B10Sn-H2(b)/J	MOUSEPHENO7	N/A	60	
Black Cohosh	84776-26-1	GAV	M3 HSD	
Resveratrol	501-36-0	GAV	RD RE M3 HSD	TOX-102
Tris(Chloropropyl) Phosphate (TCPP)	13674-84-5	FEED	M3 HSD	

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Ref No. 16

Printed Long-Term and Short-Term Study Reports

Genetically Modified Model Studies

CHEMICAL NAME	PRIMARY CAS NUMBER	ROUTE	SPECIES	RPT No.	NTIS ** NUMBER	CARCINOGEN CODES MR	FR	MM	FM*+
Allyl bromide	106-95-6	GAV	M1 MD	GMM-07	PB2008-109736			NE	NE
Allyl bromide	106-95-6	GAV	ME MI	GMM-07	PB2008-109736			NE	NE
Dicyclohexylcarbodiimide	538-75-0	SP	R2 M3	GMM-09	PB2008-109738				
Dicyclohexylcarbodiimide	538-75-0	SP	ME	GMM-09	PB2008-109738				
Dicyclohexylcarbodiimide	538-75-0	SP	MD	GMM-09	PB2008-109738				
Diisopropylcarbodiimide	693-13-0	SP	ME	GMM-10	PB2008-109739				
Diisopropylcarbodiimide	693-13-0	SP	MD	GMM-10	PB2008-109739				
Pentaerythritol triacrylate	3524-68-3	SP	R2 M3	GMM-04	PB2006-105551				
Pentaerythritol triacrylate	3524-68-3	SP	ME	GMM-04	PB2006-105551				
Transgenic Model Evaluation II (Acesulfame Potassium)	55589-62-3	FEED	MD ME	GMM-02	PB2006-103440			NE	NE
Transgenic model evaluation II (Aspartame)	22839-47-0	FEED	MD ME	GMM-01	PB2006-103430			NE	NE
Transgenic model evaluation II (Aspartame)	22839-47-0	FEED	MQ	GMM-01	PB2006-103430				
Transgenic model evaluation II (Benzene)	71-43-2	GAV	MQ	GMM-08	PB2008-109737			CE	CE
Transgenic model evaluation II (Glycidol)	556-52-5	GAV	MQ	GMM-13	PB2008-109742			CE	CE
Transgenic model evaluation II (Phenolphthalein)	77-09-8	FEED	MQ	GMM-12	PB2008-109741			NE	NE
Trimethylolpropane triacrylate	15625-89-5	SP	R2 M3	GMM-03	PB2006-105550				
Trimethylolpropane triacrylate	15625-89-5	SP	ME	GMM-03	PB2006-105550				
Water disinfection model (Bromodichloromethane)	75-27-4	WATER	MD	GMM-05	PB2008-109734			NE	NE
Water disinfection model (Bromodichloromethane)	75-27-4	SP	ME MI	GMM-05	PB2008-109734				
Water disinfection model (Bromodichloromethane)	75-27-4	GAV	MD	GMM-05	PB2008-109734			NE	NE
Water disinfection model (Bromodichloromethane)	75-27-4	WATER	ME	GMM-05	PB2008-109734				
Water disinfection model (Bromodichloromethane)	75-27-4	GAV	ME	GMM-05	PB2008-109734				

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See Page 4 for explanation of Carcnogen Codes

Ref No. 16

Printed Long-Term and Short-Term Study Reports

Genetically Modified Model Studies

CHEMICAL NAME	PRIMARY CAS NUMBER	ROUTE	SPECIES	RPT No.	NTIS ** NUMBER	CARCINOGEN CODES MR	FR	MM	FM*+
Water disinfection model (Dichloroacetic acid)	79-43-6	WATER	MD	GMM-11	PB2008-109740			NE	NE
Water disinfection model (Dichloroacetic acid)	79-43-6	SP	ME MI	GMM-11	PB2008-109740				
Water disinfection model (Dichloroacetic acid)	79-43-6	WATER	ME	GMM-11	PB2008-109740			NE	NE
Water disinfection model (Sodium bromate)	7789-38-0	WATER	MD	GMM-06	PB2008-109735			NE	NE
Water disinfection model (Sodium bromate)	7789-38-0	SP	ME MI	GMM-06	PB2008-109735				
Water disinfection model (Sodium bromate)	7789-38-0	WATER	ME	GMM-06	PB2008-109735				

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Printed Long-Term and Short-Term Study Reports

Short-Term Studies

CHEMICAL NAME	PRIMARY CAS NUMBER	ROUTE	SPECIES	RPT No.	NTIS ** NUMBER	CARCINOGEN CODES MR	FR	MM	FM*+
Abrasive Blasting Agents: Blasting Sand	BLASTINGSAND	INHAL	RD HSD	TOX-91	2378-8992				
Abrasive blasting agents (coal slag)	COALSLAG	INHAL	RD	TOX-91	2378-8992				
Abrasive blasting agents (crushed glass)	CRUSHEDGLASS	INHAL	RD	TOX-91	2378-8992				
Abrasive blasting agents (garnet)	GARNET	INHAL	RD	TOX-91	2378-8992				
Abrasive Blasting Agents: Specular Hematite	HEMATITESPEC	INHAL	RD HSD	TOX-91	2378-8992				
Acetone	67-64-1	WATER	R2 M3	TOX-03	PB91-185975				
Acrolein	107-02-8	GAV	R2 M3	TOX-48	PB2008-109744				
Allyl acetate	591-87-7	GAV	R2 M3	TOX-48	PB2008-109744				
Allyl alcohol	107-18-6	GAV	R2 M3	TOX-48	PB2008-109744				
alpha-Pinene	80-56-8	INHAL	R2 M3	TOX-81	PB2016104182				
5-Amino-o-cresol	2835-95-2	SP	RD M3	TOX-89	PB2016101129				
Antimony potassium tartrate	28300-74-5	IP/IJ	R2 M3	TOX-11	PB93-149714				
Aspergillus fumigatus mold	ASPERGILLUS	INHAL	M3	C08022					
AZT + Isoniazid (AIDS Initiative)	AZTISONIAZID	GAV	M3	AIDS-08	PB2012-102038				
AZT + Pyrazinamide combination (AIDS Initiative)	AZTZINAMIDE	GAV	M3	AIDS-05	PB2000-103878				
AZT + Rifampin (AIDS Initiative)	AZTRIFAMPIN	GAV	M3	AIDS-06	PB2001-104503				
Barium chloride dihydrate	10326-27-9	WATER	R2 M3	TR-432	PB94-214178				
Benzethonium chloride	121-54-0	SP	R2 M3	TR-438	PB96-162300				
Benzophenone	119-61-9	FEED	R2 M3	TOX-61	PB2000-106659				
o-Benzyl-p-chlorophenol	120-32-1	GAV	R2 M3	TR-424	PB94-214202				
Benzyltrimethyl ammonium chloride	56-93-9	GAV	R2 M3	TOX-57	PB2000-104839				
Benzyltrimethyl ammonium chloride	56-93-9	GAV	R2 M3	TOX-57	PB2000-104839				
2,2-bis(Bromomethyl)-1,3-propanediol	3296-90-0	FEED	R2 M3	TR-452	PB97-120224				
Bisphenol A	80-05-7	GAV	HSD						
Bisphenol A	80-05-7	GAV	44	C10034 (2)					
Black newsprint ink	EMTDP-75	SP	R2 M2	TOX-17	PB93-131910				
beta-Bromo-beta-nitrostyrene	7166-19-0	GAV	R2 M3	TOX-40	PB95-144531				
Butanal oxime	110-69-0	WATER	R2 M3	TOX-69	PB2004-104001				
1,4-Butanediol	110-63-4	FEED	R2	TOX-54	PB97-108161				
2-Butoxyethanol (ethylene glycol monobutyl ether)	111-76-2	WATER	R2 M3	TOX-26	PB94-118106				
2-Butoxyethanol (ethylene glycol monobutyl ether)	111-76-2	WATER	R2	TOX-26	PB94-118106				
tert-Butyl alcohol	75-65-0	INHAL	R2 M3	TOX-53	PB98-108905				
Butyl benzyl phthalate	85-68-7	FEED	R2	TR-458	PB98-131089				
p-tert-Butylcatechol	98-29-3	FEED	R2 M3	TOX-70	PB2003-102289				
p-tert-Butylcatechol	98-29-3	FEED	R2 M3	TOX-70	PB2003-102289				
tert-Butyl perbenzoate	614-45-9	GAV	R2 M3	TOX-15	PB93-105690/AS				
Cadmium oxide	1306-19-0	INHAL	R2 M3	TOX-39	PB95-263356				
Cadmium oxide	1306-19-0	INHAL	R8 M5	TOX-39	PB95-263356				
Carisoprodol	78-44-4	GAV	R2 M3	TOX-56	PB2001-100477				
Carisoprodol	78-44-4	GAV	R2 M3	TOX-56	PB2001-100477				
Castor oil	8001-79-4	FEED	R2 M3	TOX-12	PB93-151439				
Cedarwood oil	8000-27-9	SP	R2 M3	TOX-86	PB2018100057				

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See Page 4 for explanation of Carcnogen Codes

Ref No. 16

Printed Long-Term and Short-Term Study Reports

Short-Term Studies

CHEMICAL NAME	PRIMARY CAS NUMBER	ROUTE	SPECIES	RPT No.	NTIS ** NUMBER	CARCINOGEN CODES MR	FR	MM	FM*+
Cellulose insulation	CELLULOSEINS	IT	R2	TOX-74	PB2009-115653				
Chemical mixture - drinking water contaminants	CHEMMIXH2O	WATER	R2 M3	TOX-35	PB94-121498				
Chitosan	9012-76-4	FEED	R8	TOX-93	PB2018100958				
Chloral hydrate	302-17-0	GAV	R2 MV	C92010B					
m-Chloroaniline	108-42-9	GAV	R2 M3	TOX-43	PB98-135932				
o-Chloroaniline	95-51-2	GAV	R2 M3	TOX-43	PB98-135932				
2-Chloronitrobenzene	88-73-3	INHAL	R2 M3	TOX-33	PB94-118262				
4-Chloronitrobenzene	100-00-5	INHAL	R2 M3	TOX-33	PB94-118262				
Chloroprene	126-99-8	INHAL	R2 M3	TR-467	PB99-123671				
1-Chloro-2-propanol, technical	127-00-4	WATER	R2 M3	TR-477	PB99-119240				
o-Chloropyridine	109-09-1	WATER	R2 M3	TOX-83	PB2017101646				
p-Chloro-a,a,a-trifluorotoluene	98-56-6	INHAL	M3 HSD	TR-594	PB2019100304				
p-Chloro-a,a,a-trifluorotoluene	98-56-6	GAV	R2 M3	TOX-14	PB93-105682/AS				
p-Chloro-a,a,a-trifluorotoluene	98-56-6	GAV	R2 M3	TOX-14	PB93-105682/AS				
C.I. Direct Black 38	1937-37-7	FEED	R2 M3	TR-108	PB280204	P	P		
C.I. Direct Blue 6	2602-46-2	FEED	R2 M3	TR-108	PB280204	P	P		
C.I. Direct Blue 218	28407-37-6	FEED	R2 M3	TR-430	PB94-215993				
C.I. Direct Brown 95	16071-86-6	FEED	R2 M3	TR-108	PB280204	N	P		
Cobalt sulfate heptahydrate	10026-24-1	INHAL	R2 M3	TOX-05	PB91-185348				
Codeine	76-57-3	FEED	R2 M3	TR-455	PB97-116743				
Coumarin	91-64-5	GAV	R2 M3	TR-422	PB94-215761				
m-Cresol	108-39-4	FEED	R2 M3	TOX-09	PB92-174242				
o-Cresol	95-48-7	FEED	R2 M3	TOX-09	PB92-174242				
p-Cresol	106-44-5	FEED	R2 M3	TOX-09	PB92-174242				
Cresols	1319-77-3	FEED	R2 M3	TOX-09	PB92-174242				
Crumb Rubber	CRUMBRUBBERVARIOUS		M22	RR-14					
Cupric sulfate	7758-99-8	WATER	R2 M3	TOX-29	PB94-120870				
Cupric sulfate	7758-99-8	FEED	R2 M3	TOX-29	PB94-120870				
Cyclohexanone oxime	100-64-1	WATER	M3	TOX-50	PB96-175559				
D&C Yellow No. 11	8003-22-3	FEED	R2 M3	TOX-08	PB91-185355				
2,4-Decadienal	25152-84-5	GAV	R2 M3	TOX-76	PB2011-105285				
Diazoaminobenzene	136-35-6	SP	R2 M3	TOX-73	PB2003-103038				
1,2-Dibromo-2,4-dicyanobutane	35691-65-7	SP	R2 M22	TR-555	PB2010-113180				
Dibutyl Phthalate	84-74-2	FEED	R2 M3	TOX-30	PB95-232427				
Dibutyl Phthalate	84-74-2	FEED	R2 M3	TOX-30	PB95-232427				
p,p'-Dichlorodiphenyl sulfone	80-07-9	FEED	R2 M3	TR-501	PB2002-100580				
1,2-Dichloroethane	107-06-2	GAV	R2	TOX-04	PB91-185363				
1,2-Dichloroethane	107-06-2	WATER	R2 M3	TOX-04	PB91-185363				
1,2-Dichloroethane	107-06-2	WATER	R8 R1	TOX-04	PB91-185363				
trans-1,2-Dichloroethylene	156-60-5	MICRO	R2 M3	TOX-55	PB2002-108967				
Diethanolamine	111-42-2	SP	R2 M3	TOX-20	PB93-133999				
Diethanolamine	111-42-2	WATER	R2 M3	TOX-20	PB93-133999				
3,4-Dihydrocoumarin	119-84-6	GAV	R2 M3	TR-423	PB95-103925				
1,2-Dihydro-2,2,4-trimethylquinoline (monomer)	147-47-7	SP	R2 M3	TR-456	PB98-101009				
1,2-Dihydro-2,2,4-trimethylquinoline (monomer)	147-47-7	SP	R2 M7	TR-456	PB98-101009				
Diisopropylcarbodiimide	693-13-0	SP	R2 M3	TR-523	PB2007107705				
Dimethylaminopropyl chloride, hydrochloride	5407-04-5	GAV	R2 M3	TOX-75	PB2009-114738				
Dimethylformamide	68-12-2	INHAL	R2 M3	TOX-22	PB93-131936				
1,3-Diphenylguanidine	102-06-7	FEED	R2 M3	TOX-42	PB96-115639				
Dipropylene glycol	25265-71-8	WATER	R2 M3	TR-511	PB2005100832				
Elmiron (sodium pentosanpolysulfate)	37319-17-8	GAV	R2 M3	TR-512	PB2004-106612				
Estragole	140-67-0	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	SP	RD M3	TOX-92	PB2019100302				
Ethylbenzene	100-41-4	INHAL	R2 M3	TOX-10	PB93-149722				
Ethylene glycol monoethyl ether (EGMEE)	110-80-5	WATER	R2 M3	TOX-26	PB94-118106				
Ethylene glycol monoethyl ether (EGMEE)	110-80-5	WATER	R2	TOX-26	PB94-118106				
Ethylene Glycol Monomethyl Ether (EGMME)	109-86-4	WATER	R2 M3	TOX-26	PB94-118106				
Ethylene Glycol Monomethyl Ether (EGMME)	109-86-4	WATER	R2	TOX-26	PB94-118106				
Formamide	75-12-7	GAV	R2 M3	TR-541	PB2009-115393				
Formic acid	64-18-6	INHAL	R2 M3	TOX-19	PB93-149730				
Fumonisin B1	116355-83-0	FEED	R2 M3	TR-496	PB2002-103492				
Furfuryl alcohol	98-00-0	INHAL	R2 M3	TR-482	PB99-151482				
Gallium arsenide	1303-00-0	INHAL	R2 M3	TR-492	PB2001-102003				
Glutaraldehyde	111-30-8	INHAL	R2 M3	TOX-25	PB94-119252				
Glyphosate	1071-83-6	FEED	R2 M3	TOX-16	PB95-109898				
Glyphosate	1071-83-6	FEED	R2	TOX-16	PB95-109898				

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Printed Long-Term and Short-Term Study Reports

Short-Term Studies

CHEMICAL NAME	PRIMARY CAS NUMBER	ROUTE	SPECIES	RPT No.	NTIS ** NUMBER	CARCINOGEN CODES MR	FR	MM	FM*+
Goldenseal root powder	GOLDENSEALRT	FEED	R2 M22	TR-562	PB2011-101388				
Gum Guggul Extract	GUMGUGGULEXT	GAV	M3 HSD	TOX-99					
Halogenated ethanes CS (1,2-Dichloro-1,1-difluoroethane)	1649-08-7	GAV	R2	TOX-45	PB96-202718				
Halogenated ethanes CS (1,2-Difluoro-1,1,2,2-tetrachloroethane)	76-12-0	GAV	R2	TOX-45	PB96-202718				
Halogenated ethanes CS (Hexachloroethane)	67-72-1	GAV	R2	TOX-45	PB96-202718				
Halogenated ethanes CS (Pentabromoethane)	75-95-6	GAV	R2	TOX-45	PB96-202718				
Halogenated ethanes CS (Pentachloroethane)	76-01-7	GAV	R2	TOX-45	PB96-202718				
Halogenated ethanes CS (1,1,1,2-Tetrabromoethane)	630-16-0	GAV	R2	TOX-45	PB96-202718				
Halogenated ethanes CS (1,1,2,2-Tetrabromoethane)	79-27-6	GAV	R2	TOX-45	PB96-202718				
Halogenated ethanes CS (1,1,1,2-Tetrachloroethane)	630-20-6	GAV	R2	TOX-45	PB96-202718				
Halogenated ethanes CS (1,1,2,2-Tetrachloroethane)	79-34-5	GAV	R2	TOX-45	PB96-202718				
Halogenated ethanes CS (1,1,1-Trichloroethane)	71-55-6	GAV	R2	TOX-45	PB96-202718				
Halogenated ethanes CS (1,1,1-Trichloro-2,2,2-trifluoroethane)	354-58-5	GAV	R2	TOX-45	PB96-202718				
Hexachlorobenzene	118-74-1	GAV	HSD	TOX-77					
Hexachloro-1,3-butadiene	87-68-3	FEED	M3	TOX-01	PB91-185884				
2,4-Hexadienal	142-83-6	GAV	R2 M3	TR-509	PB2004102548				
1,6-Hexanediamine dihydrochloride	6055-52-3	INHAL	R2 M3	TOX-24	PB94-119260				
1,6-Hexanediamine dihydrochloride	6055-52-3	WATER	R2 M3	TOX-24	PB94-119260				
n-Hexane	110-54-3	INHAL	M3	TOX-02	PB91-185322				
2-Hydroxy-4-methoxybenzophenone	131-57-7	FEED	R2 M3	TOX-21	PB93-126498				
2-Hydroxy-4-methoxybenzophenone	131-57-7	SP	R2 M3	TOX-21	PB93-126498				
2-Hydroxy-4-methoxybenzophenone	131-57-7	SP	R2 M3	TOX-21	PB93-126498				
5-(Hydroxymethyl)-2-furfural	67-47-0	GAV	R2 M3	TR-554	PB2010-113179				
Indole-3-carbinol	700-06-1	GAV	R2 M22	TR-584	PB2018100059				
Ionic Liquid: 1-Butyl-3-methylimidazolium Chloride	79917-90-1	WATER	M22 HSD	TOX-103					
Ionic Liquid: 1-Butyl-1-methylpyrrolidinium Chloride	479500-35-1	WATER	HSD M22	TOX-103					
Ionic Liquid: N-Butylpyridinium Chloride	1124-64-7	WATER	HSD M22	TOX-103					
Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride	65039-09-0	WATER	M22 HSD	TOX-103					
Isobutyraldehyde	78-84-2	INHAL	R2 M3	TR-472	PB99-134785				
Isoprene	78-79-5	INHAL	R2 M3	TOX-31	PB95-226486				
Isoprene	78-79-5	INHAL	R2 M3	TOX-31	PB95-226486				
Leucomalachite green	129-73-7	FEED	R2 MV	TOX-71	PB2004-106614				
1020 Long Multiwalled Carbon Nanotube	L-MWNT-1020	INHAL	M3 HSD	TOX-94					
Magnetic fields (EMF)	ELECTROMAG	WB	R2 M3	TOX-58	PB97-115463				
Magnetic fields + DMBA initiation promotion	EMF+DMBA	GV/WB	R8	TR-489	PB2000-101313				
Malachite green	569-64-2	FEED	R2 MV	TOX-71	PB2004-106614				
Manganese sulfate monohydrate	10034-96-5	FEED	R2 M3	TR-428	PB94-217148				
Methacrylonitrile	126-98-7	GAV	R2 M3	TOX-47	PB2000-106-406				
Methapyrilene hydrochloride	135-23-9	FEED	R2	TOX-46	PB2000-107871				
Methyl bromide	74-83-9	INHAL	R2 M3	TR-385	PB92-189257				
Methyl bromide	74-83-9	INHAL	R2 M3	TR-385	PB92-189257				
4-Methylcyclohexanemethanol (MCHM)	34885-03-5	GAV	HSD						
Methylene bis(thiocyanate)	6317-18-6	GAV	R2 M3	TOX-32	PB94-194164				
Methyl ethyl ketone peroxide	1338-23-4	SP	R2 M3	TOX-18	PB94-119278				
Methyl ethyl ketoxime	96-29-7	WATER	R2 M3	TOX-51	PB99-176828				
Methyleugenol	93-15-2	GAV	R2 M3	TR-491	PB2000-107865				
2-Methylimidazole	693-98-1	FEED	R2 M3	TOX-67	PB2004-105393				
4-Methylimidazole	822-36-6	FEED	R2 M3	TOX-67	PB2004-105393				
Methylphenidate hydrochloride	298-59-9	FEED	R2 M3	TR-439	PB96-162615				
Molybdenum trioxide	1313-27-5	INHAL	R2 M3	TR-462	PB98-107048				
Nanoscale material (Fullerene-C60 1 micron)	99685-96-8	INHAL	RE M22	TOX-87	2378-8992				
Nanoscale material (Fullerene-C60 50 nanometers)	99685-96-8	INHAL	RE M3	TOX-87	2378-8992				
p-Nitroaniline	100-01-6	GAV	M3	TR-418	PB94-104528				
o-Nitroanisole	91-23-6	FEED	R2 M3	TR-416	PB94-109758				
p-Nitrobenzoic acid	62-23-7	FEED	R2 M3	TR-442	PB95-226254				
1-Nitropyrene	5522-43-0	INHAL	R2	TOX-34	PB96-176342				
m-Nitrotoluene	99-08-1	FEED	R2 M3	TOX-23	PB93-150092				
o-Nitrotoluene	88-72-2	FEED	R2 M3	TOX-23	PB93-150092				
o-Nitrotoluene	88-72-2	FEED	R2	TOX-44	PB96-188321				

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

See Page 4 for explanation of Carcnogen Codes

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Printed Long-Term and Short-Term Study Reports

Short-Term Studies

CHEMICAL NAME	PRIMARY CAS NUMBER	ROUTE	SPECIES	RPT No.	NTIS ** NUMBER	CARCINOGEN CODES MR	FR	MM	FM*+
p-Nitrotoluene	99-99-0	FEED	R2 M3	TOX-23	PB93-150092				
Pentachlorobenzene	608-93-5	FEED	R2 M3	TOX-06	PB91-185983				
Pentachlorophenol, DP-2	87-86-5	FEED	M3	TR-349	PB89-216536				
Pentachlorophenol, purified	87-86-5	FEED	M3	TR-349	PB89-216536				
Perfluorobutane sulfonic acid (PFBS)	375-73-5	GAV	HSD	TOX-96					
Perfluorodecanoic acid (PFDA)	335-76-2	GAV	HSD	TOX-97					
Perfluorohexane sulfonate potassium salt (PFHSKslt)	3871-99-6	GAV	HSD	TOX-96					
Perfluorohexanoic acid (PFHXA)	307-24-4	GAV	HSD	TOX-97					
Perfluorononanoic acid (PFNA)	375-95-1	GAV	HSD	TOX-97					
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	GAV	HSD	TOX-96					
Perfluorooctanoic acid (PFOA)	335-67-1	GAV	HSD	TOX-97					
Peroxisome project (WY-14643)	50892-23-4	FEED	M3 H1 HSD	TOX-62	PB2000-106659				
Pesticide/fertilizer contamination--mixture 2	PESTFERTMIX2	WATER	R2 M3	TOX-36	PB94-121035				
Pesticide/fertilizer contamination--mixture 3	PESTFERTMIX3	WATER	R2 M3	TOX-36	PB94-121035				
Phenolphthalein	77-09-8	FEED	R2 M3	TR-465	PB97-169882				
ortho-Phthalaldehyde	643-79-8	INHAL	M3 HSD	TOX-84	PB2018100957				
Promethazine hydrochloride	58-33-3	GAV	R2 M3	TR-425	PB94-210192				
Propylene glycol phenyl ether	770-35-4	GAV	HSD						
Riddelliine	23246-96-0	GAV	R2 M3	TOX-27	PB94-194685				
Salicylazosulfapyridine	599-79-1	GAV	R2 M3	TR-457	PB97-212708				
Scopolamine hydrobromide trihydrate	6533-68-2	GAV	R2 M3	TR-445	PB97-208946				
Senna (powdered)	8013-11-4	FEED	M1	GMM-15	PB2012111383				
Senna (powdered)	8013-11-4	FEED	MD	GMM-15	PB2012111383				
Serotype 2 Adeno-associated Viral Vector hAQP1 (rAAV2hAQP1)	AAV2HAQP1	ID/CN	MW						
Sodium cyanide	143-33-9	WATER	R2 M3	TOX-37	PB94-194693				
Sodium dichromate dihydrate (VI)	7789-12-0	WATER	M3 MW MX	TOX-72	PB2007-107225				
Sodium nitrite	7632-00-0	WATER	R2 M3	TR-495	PB2001-107676				
Sodium selenate	13410-01-0	WATER	R2 M3	TOX-38	PB94-215753				
Sodium selenite	10102-18-8	WATER	R2 M3	TOX-38	PB94-215753				
Sodium thioglycolate	367-51-1	SP	R2 M3	TOX-80					
Sodium xylenesulfonate	1300-72-7	SP	R2 M3	TR-464	PB98-168719				
Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)	21850-44-2	GAV	RD M3	TOX-85					
3,3',4,4'-Tetrachloroazobenzene	14047-09-7	GAV	R2 M3	TOX-65	PB99-123465				
3,3',4,4'-Tetrachloroazobenzene	14047-09-7	GAV	HSD	TR-558	PB2011-104500				
3,3',4,4'-Tetrachloroazoxybenzene	21232-47-3	GAV	R2 M3	TOX-66	PB99-123663				
1,2,4,5-Tetrachlorobenzene	95-94-3	FEED	R2 M3	TOX-07	PB91-185330				
1,1,2,2-Tetrachloroethane	79-34-5	MICRO	R2 M3	TOX-49	PB2004-105706				
1,1,2,2-Tetrachloroethane	79-34-5	MICRO	R2 M3	TOX-49	PB2004-105706				
Tetrachlorophthalic anhydride	117-08-8	GAV	R2 M3	TOX-28	PB94-119245				
Tetrafluoroethylene	116-14-3	INHAL	R2 M3	TR-450	PB97-208508				
1-trans-delta-9-Tetrahydrocannabinol	1972-08-3	GAV	R2 M3	TR-446	PB97-182208				
Tetrahydrofuran	109-99-9	INHAL	R2 M3	TR-475	PB98-164544				
Theophylline	58-55-9	GAV	R2 M3	TR-473	PB99-113342				
Theophylline	58-55-9	FEED	R2 M3	TR-473	PB99-113342				
alpha-Thujone	546-80-5	GAV	R2 M22	TR-570	PB2012-102007				
alpha/beta Thujone mixture	76231-76-0	GAV	R2 M22	TR-570	PB2012-102007				
Toluene	108-88-3	GAV	R2 M3	TR-371	PB90-256371				
p-Toluenesulfonamide	70-55-3	FEED	RD M3	TOX-88	PB2018100058				
o-Toluidine hydrochloride	636-21-5	FEED	R2	TOX-44	PB96-188321				
1,1,1-Trichloroethane	71-55-6	MICRO	R2 M3	TOX-41	PB2001-100476				
Triethylamine	121-44-8	INHAL	R2 M3	TOX-78	PB2018100956				
Trimethylsilyldiazomethane (TMSD)	18107-18-1	INHAL	M3 HSD	TOX-101					
2,4,7-Trinitro-fluoren-9-one	129-79-3	SP	R2 M3	TOX-13	PB92-238864/AS				
2,4,7-Trinitro-fluoren-9-one	129-79-3	FEED	R2 M3	TOX-13	PB92-238864/AS				
Urethane	51-79-6	WATER	R2 M3	TOX-52	PB96-175575				
Urethane + ethanol (combination)	URETHCOMB	WATER	R2 M3	TOX-52	PB96-175575				
Vanadium pentoxide	1314-62-1	INHAL	R2 M3	TR-507	PB2003102385				
Wyeth 14,643 (WY)	50892-23-4	GAV	HSD	TOX-97					

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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 NTP Web Team (Telephone: 919-541-3419; Mail Drop K2-05, NIEHS, P. O. BOX 12233, Research Triangle Park, NC USA 27709;

EMAIL: ntpwebrequest@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	ROUTE	SPECIES	RPT No.	NTIS ** NUMBER	CARCINOGEN CODES MR	FR	MM	FM*+
Acetaminophen (4-hydroxyacetanilide)	103-90-2	FEED	R2 M3	TR-394	PB93-227478	NE	EE	NE	NE
Acetohexamide	968-81-0	FEED	R2 M3	TR-050	PB284673	N	N	N	N
Acetonitrile	75-05-8	INHAL	R2 M3	TR-447	PB96-214937	EE	NE	NE	NE
Acronycine	7008-42-6	IP/IJ	R8 M3	TR-049	PB283347	P	P	IS	IS
Acrylamide	79-06-1	WATER	RC MV	TR-575	PB2013102800	CE	CE	CE	CE
Acrylonitrile	107-13-1	GAV	M3	TR-506	PB2002-102198			CE	CE
Agar	9002-18-0	FEED	R2 M3	TR-230	PB82-227588	N	N	N	N
Aldicarb	116-06-3	FEED	R2 M3	TR-136	PB298511	N	N	N	N
Aldrin	309-00-2	FEED	R1 M3	TR-021	PB275666	E	E	P	P
Allyl chloride	107-05-1	GAV	R1 M3	TR-073	PB287516	N	N	E	E
Allyl glycidyl ether	106-92-3	INHAL	R1 M3	TR-376	PB90-260027	EE	NE	SE	SE
Allyl isothiocyanate	57-06-7	GAV	R2 M3	TR-234	PB83-144238	P	E	N	N
Allyl isovalerate	2835-39-4	GAV	R2 M3	TR-253	PB83-218214	P	N	N	N
Aloe-emodin	481-72-1	SP	MT	TR-553	PB2011-101386				
Aloe phototoxicity studies	ALOEPHOTOTOX	SP	MT	TR-553	PB2011-101386				
Aloe vera charcoal filtered whole leaf extract	ALOEVFILTER	SP	MT	TR-553	PB2011-101386				
Aloe vera gel	8001-97-6	SP	MT	TR-553	PB2011-101386				
Aloe vera whole leaf extract (native)	ALOEVLEAFEXT	WATER	RC MV	TR-577	PB2014-100511	CE	CE	NE	NE
Aloe vera whole leaf extract (native)	ALOEVLEAFEXT	SP	MT	TR-553	PB2011-101386				
alpha/beta Hydroxy acids (glycolic acid, salicylic acid)	HYDROXGLYSAL	SP	MT	TR-524	PB2008109732			NE	NE
2-Aminoanthraquinone	117-79-3	FEED	R2 M3	TR-144	PB287739	P	IS	P	P
1-Amino-2,4-dibromoanthraquinone	81-49-2	FEED	R2 M3	TR-383	PB97-116636	CE	CE	CE	CE
3-Amino-4-ethoxyacetanilide	17026-81-2	FEED	R2 M3	TR-112	PB285194	N	N	P	P
3-Amino-9-ethylcarbazole HCl	6109-97-3	FEED	R2 M3	TR-093	PB287126	P	P	P	P
1-Amino-2-methylanthraquinone	82-28-0	FEED	R2 M3	TR-111	PB286852	P	P	N	N
2-Amino-4-nitrophenol	99-57-0	GAV	R2 M3	TR-339	PB89-128623	SE	NE	NE	NE
2-Amino-5-nitrophenol	121-88-0	GAV	R2 M3	TR-334	PB88-184809	SE	NE	NE	NE
4-Amino-2-nitrophenol	119-34-6	FEED	R2 M3	TR-094	PB286189	P	E	N	N
2-Amino-5-nitrothiazole	121-66-4	FEED	R2 M3	TR-053	PB283346	P	N	N	N
11-Aminoundecanoic acid	2432-99-7	FEED	R2 M3	TR-216	PB82-225640	P	N	E	E
DL-amphetamine sulfate	60-13-9	FEED	R2 M3	TR-387	PB92-107978	NE	NE	NE	NE
Ampicillin trihydrate	7177-48-2	GAV	R2 M3	TR-318	PB87-204160	EE	NE	NE	NE
Androstenedione	63-05-8	GAV	R2 M22	TR-560	PB2011-100790	EE	EE	CE	CE
Anilazine	101-05-3	FEED	R2 M3	TR-104	PB287141	N	N	N	N
Aniline hydrochloride	142-04-1	FEED	R2 M3	TR-130	PB287539	P	P	N	N
o-Anisidine hydrochloride	134-29-2	FEED	R2 M3	TR-089	PB285879	P	P	P	P
p-Anisidine hydrochloride	20265-97-8	FEED	R2 M3	TR-116	PB286951	E	N	N	N
o-Anthranilic acid	118-92-3	FEED	R2 M3	TR-036	PB278883	N	N	N	N
Anthraquinone	84-65-1	FEED	R2 M3	TR-494	PB2006-101509	SE	CE	CE	CE
Antimony Trioxide	1309-64-4	INHAL	RE M3	TR-590	PB2018100959	SE	SE	CE	CE
Aroclor 1254	11097-69-1	FEED	R2	TR-038	PB279624	E	E		
Asbestos, amosite	12172-73-5	FEED	R2	TR-279	PB91-172312	N	N		
Asbestos, amosite	12172-73-5	FEED	H1	TR-249	PB87-133278				
Asbestos, amosite + Dimethyl hydrazine	12172-73-5	FEED	R2	TR-279	PB91-172312	IS	IS		
Asbestos, chrysotile(IR)	12001-29-5	FEED	R2	TR-295	PB86-167103	SE	NE		
Asbestos, chrysotile(IR)	12001-29-5	FEED	H1	TR-246	PB91-142380				
Asbestos, chrysotile(IR)	12001-29-5	FEED	R2	TR-295	PB86-167103				
Asbestos, chrysotile(IR) + Dimethyl hydrazine	12001-29-5	FEED	H1	TR-246	PB91-142380				
Asbestos, chrysotile(IR) + Dimethyl hydrazine	12001-29-5	FEED	R2	TR-295	PB86-167103	IS	IS		
Asbestos, chrysotile(SR)	12001-29-5	FEED	R2	TR-295	PB86-167103	NE	NE		
Asbestos, chrysotile(SR)	12001-29-5	FEED	H1	TR-246	PB91-142380				
Asbestos, crocidolite	12001-28-4	FEED	R2	TR-280	PB89-178529	N	N		
L-Ascorbic acid	50-81-7	FEED	R2 M3	TR-247	PB83-201194	N	N	N	N
Aspirin, phenacetin, and caffeine	8003-03-0	FEED	R2 M3	TR-067	PB284684	N	E	N	N
5-Azacytidine	320-67-2	IP/IJ	R8 M3	TR-042	PB279526	IS	IS	IS	IS
3'-Azido-3'-deoxythymidine (AIDS)	30516-87-1	GAV	M3 MV	TR-569	PB2013-104938			NE	NE
3'-Azido-3'-deoxythymidine (AIDS)	30516-87-1	GAV	MV	TR-569	PB2013-104938			NE	NE
3'-Azido-3'-deoxythymidine (AIDS)	30516-87-1	GAV	MV	TR-569	PB2013-104938			SE	SE
3'-Azido-3'-deoxythymidine (AIDS)	30516-87-1	GAV	MV	TR-569	PB2013-104938			NE	NE
3'-Azido-3'-deoxythymidine (AIDS)	30516-87-1	GAV	MJ	GMM-14	PB2014-103470			CE	CE
3'-Azido-3'-deoxythymidine (AIDS)	30516-87-1	GAV	MS	GMM-16	PB2014-103469			CE	CE
3'-Azido-3'-deoxythymidine (AIDS)	30516-87-1	GAV	MS	GMM-16	PB2014-103469			NE	NE
3'-Azido-3'-deoxythymidine (AIDS)	30516-87-1	GAV	MS	GMM-16	PB2014-103469			NE	NE
3'-Azido-3'-deoxythymidine (AIDS)	30516-87-1	GAV	MS	GMM-16	PB2014-103469			CE	CE
3'-Azido-3'-deoxythymidine (AIDS)	30516-87-1	GAV	MS	GMM-16	PB2014-103469			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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Printed Long-Term and Short-Term Study Reports

Long-Term Studies

CHEMICAL NAME	PRIMARY CAS NUMBER	ROUTE	SPECIES	RPT No.	NTIS ** NUMBER	CARCINOGEN CODES MR	FR	MM	FM*+
3'-Azido-3'-deoxythymidine (AIDS)	30516-87-1	GAV	R2 M3	TR-469	PB99-145807			EE	EE
Azinphosmethyl	86-50-0	FEED	R1 M3	TR-069	PB286371	E	N	N	N
Azobenzene	103-33-3	FEED	R2 M3	TR-154	PB293835	P	P	N	N
AZT+3TC+NVP combination	AZT3TCCOMBO	GAV	MJ	GMM-16	PB2014-103469				
AZT/Drug Combinations Transplacental/Neonatal Study	AIDSDRUGSNEO	GAV	M3 MV						
AZT/Drug Combinations Transplacental Carcinogenesis Study	AIDSTHERAPEU	UTERO	MV	TR-569	PB2013-104938				
AZT transplacental carcinogenesis study	30516-87-1	UTERO	M5	TR-522	PB2006-115448			CE	CE
Barium chloride dihydrate	10326-27-9	WATER	R2 M3	TR-432	PB94-214178	NE	NE	NE	NE
Benzaldehyde	100-52-7	GAV	R2 M3	TR-378	PB90-253782	NE	NE	SE	SE
Benzene	71-43-2	GAV	R2 M3	TR-289	PB86-216967	CE	CE	CE	CE
Benzethonium chloride	121-54-0	SP	R2 M3	TR-438	PB96-162300	NE	NE	NE	NE
Benzofuran	271-89-6	GAV	R2 M3	TR-370	PB90-231127	NE	SE	CE	CE
Benzoin	119-53-9	FEED	R2 M3	TR-204	PB80-217953	N	N	N	N
Benzophenone	119-61-9	FEED	R2 M22	TR-533	PB2006-111481	SE	EE	SE	SE
p-Benzoquinone dioxime	105-11-3	FEED	R2 M3	TR-179	PB291501	N	P	N	N
1,2,3-Benzotriazole	95-14-7	FEED	R2 M3	TR-088	PB285202	E	E	N	N
Benzyl acetate	140-11-4	GAV	R2 M3	TR-250	PB87-115044	EE	NE	SE	SE
Benzyl acetate	140-11-4	FEED	R2 M3	TR-431	PB94-184033	NE	NE	NE	NE
Benzyl alcohol	100-51-6	GAV	R2 M3	TR-343	PB90-110206	NE	NE	NE	NE
o-Benzyl-p-chlorophenol	120-32-1	SP	M5	TR-444	PB96-162342				
o-Benzyl-p-chlorophenol	120-32-1	GAV	R2 M3	TR-424	PB94-214202	NE	EE	SE	SE
2-Biphenylamine hydrochloride	2185-92-4	FEED	R2 M3	TR-233	PB83-138842	N	N	E	E
2,2-bis(Bromomethyl)-1,3-propanediol	3296-90-0	FEED	R2 M3	TR-452	PB97-120224	CE	CE	CE	CE
bis(2-Chloro-1-methylethyl) ether	108-60-1	GAV	R2	TR-191	PB299741	N	N		
bis(2-Chloro-1-methylethyl) ether	108-60-1	GAV	M3	TR-239	PB83-169615			P	P
Bisphenol A	80-05-7	GAV	44	C10034 (1)					
Bisphenol A	80-05-7	FEED	R2 M3	TR-215	PB82-184060	E	E	E	E
Boric acid	10043-35-3	FEED	M3	TR-324	PB88-213475			NE	NE
Bromodichloromethane	75-27-4	GAV	R2 M3	TR-321	PB88-168687	CE	CE	CE	CE
Bromoethane (ethyl bromide)	74-96-4	INHAL	R2 M3	TR-363	PB90-219445	SE	EE	EE	EE
1-Bromopropane	106-94-5	INHAL	R2 M22	TR-564	PB2011-114187	SE	CE	NE	NE
1,3-Butadiene	106-99-0	INHAL	M3	TR-288	PB85-179646			CE	CE
1,3-Butadiene	106-99-0	INHAL	M3	TR-434	PB94-101631			CE	CE
2,3-Butanedione	431-03-8	INHAL	RE M3	TR-593	PB2019100303	SE	SE	NE	NE
2-Butoxyethanol (ethylene glycol monobutyl ether)	111-76-2	INHAL	R2 M3	TR-484	PB2000-105865	NE	EE	SE	SE
tert-Butyl alcohol	75-65-0	WATER	R2 M3	TR-436	PB96-162748	SE	NE	EE	EE
Butylated hydroxytoluene	128-37-0	FEED	R2 M3	TR-150	PB298539	N	N	N	N
Butyl benzyl phthalate	85-68-7	FEED	R2 M3	TR-213	PB83-118398	IS	P	N	N
Butyl benzyl phthalate	85-68-7	FEED	R2	TR-458	PB98-131089	SE	EE		
n-Butyl chloride	109-69-3	GAV	R2 M3	TR-312	PB86-218526	NE	NE	NE	NE
t-Butylhydroquinone	1948-33-0	FEED	R2 M3	TR-459	PB98-107170	NE	NE	NE	NE
gamma-Butyrolactone	96-48-0	GAV	R2 M3	TR-406	PB92-189323	NE	NE	EE	EE
Calcium cyanamide	156-62-7	FEED	R2 M3	TR-163	PB293625	N	N	N	N
Caprolactam	105-60-2	FEED	R2 M3	TR-214	PB82-190182	N	N	N	N
Captan	133-06-2	FEED	R1 M3	TR-015	PB273475	N	N	P	P
Carbromal	77-65-6	FEED	R2 M3	TR-173	PB290130	N	N	N	N
D-Carvone	2244-16-8	GAV	R2 M3	TR-381	PB90-241100			NE	NE
Cell Phone Radiation: CDMA	CELLPRADCDMA	WB	HSDE M22	TR-595		CE	EE	EE	EE
Cell Phone Radiation: GSM	CELLPRADGSM	WB	HSDE M22	TR-595		CE	EE	EE	EE
Chloral hydrate	302-17-0	GAV	R2 MV	TR-502	PB2002-105712				
Chloral hydrate	302-17-0	GAV	MV	TR-503	PB2003-103039			SE	SE
Chloramben	133-90-4	FEED	R1 M3	TR-025	PB273065	N	N	E	E
Chloraminated water	CHLORAMINEMX	WATER	R2 M3	TR-392	PB92-191659	NE	EE	NE	NE
Chlordane (analytical grade)	57-74-9	FEED	R1 M3	TR-008	PB271977	N	N	P	P
Chlordecone	143-50-0	FEED	R1 M3	TR-000 (143-50-0)	PB264041	P	P	P	P
Chlorendic acid	115-28-6	FEED	R2 M3	TR-304	PB87-206835	CE	CE	CE	CE
Chlorinated paraffins: C12, 60% chlorine	108171-26-2	GAV	R2 M3	TR-308	PB86-248101	CE	CE	CE	CE
Chlorinated paraffins: C23, 43% chlorine	108171-27-3	GAV	R2 M3	TR-305	PB86-248093	NE	EE	CE	CE
Chlorinated trisodium phosphate	56802-99-4	GAV	R2 M3	TR-294	PB87-189718	IS	IS	NE	NE
Chlorinated water	CHLORWATERMX	WATER	R2 M3	TR-392	PB92-191659	NE	EE	NE	NE
2-Chloroacetophenone (CN)	532-27-4	INHAL	R2 M3	TR-379	PB90-256066	NE	EE	NE	NE
4-(Chloroacetyl)acetanilide	140-49-8	FEED	R2 M3	TR-177	PB288754	N	N	N	N
p-Chloroaniline	106-47-8	FEED	R2 M3	TR-189	PB295896	E	N	E	E
p-Chloroaniline hydrochloride	20265-96-7	GAV	R2 M3	TR-351	PB90-222563	CE	EE	SE	SE
o-Chlorobenzalmalononitrile (CS)	2698-41-1	INHAL	R2 M3	TR-377	PB90-256280	NE	NE	NE	NE
Chlorobenzene	108-90-7	GAV	R2 M3	TR-261	PB86-144714	E	N	N	N
Chlorobenzilate	510-15-6	FEED	R1 M3	TR-075	PB287123	E	E	P	P

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Chlorodibromomethane	124-48-1	GAV	R2 M3	TR-282	PB86-166675	NE	NE	EE	EE
Chloroethane	75-00-3	INHAL	R2 M3	TR-346	PB90-225053	EE	EE	IS	IS
2-Chloroethanol (ethylene chlorohydrin)	107-07-3	SP	R2 M4	TR-275	PB86-145513	NE	NE	NE	NE
bis(2-Chloroethoxy)methane	111-91-1	SP	R2 M22	TR-536	PB2011-113465	NE	NE	NE	NE
2-Chloroethyltrimethylammonium chloride	999-81-5	FEED	R2 M3	TR-158	PB293627	N	N	N	N
Chloroform	67-66-3	GAV	R1 M3	TR-000 (67-66-3)	PB264018	P	N	P	P
3-Chloro-2-methylpropene	563-47-3	GAV	R2 M3	TR-300	PB86-247293	CE	CE	CE	CE
2-Chloromethylpyridine hydrochloride	6959-47-3	GAV	R2 M3	TR-178	PB295895	N	N	N	N
3-Chloromethylpyridine hydrochloride	6959-48-4	GAV	R2 M3	TR-095	PB287125	P	E	P	P
4-Chloro-m-phenylenediamine	5131-60-2	FEED	R2 M3	TR-085	PB285201	P	N	N	N
4-Chloro-o-phenylenediamine	95-83-0	FEED	R2 M3	TR-063	PB283362	P	P	P	P
2-Chloro-p-phenylenediamine sulfate	61702-44-1	FEED	R2 M3	TR-113	PB286370	N	N	N	N
Chloropicrin	76-06-2	GAV	R1 M3	TR-065	PB282311	I	I	N	N
Chloroprene	126-99-8	INHAL	R2 M3	TR-467	PB99-123671	CE	CE	CE	CE
1-Chloro-2-propanol, technical	127-00-4	WATER	R2 M3	TR-477	PB99-119240	NE	NE	NE	NE
Chlorothalonil	1897-45-6	FEED	R1 M3	TR-041	PB286369	P	P	N	N
3-Chloro-p-toluidine	95-74-9	FEED	R2 M3	TR-145	PB287401	N	N	N	N
5-Chloro-o-toluidine	95-79-4	FEED	R2 M3	TR-187	PB291468	N	N	P	P
4-Chloro-o-toluidine hydrochloride	3165-93-3	FEED	R2 M3	TR-165	PB295864	N	N	P	P
p-Chloro-a,a,a-trifluorotoluene	98-56-6	INHAL	M3 HSD	TR-594	PB2019100304	SE	SE	CE	CE
Chlorpheniramine maleate	113-92-8	GAV	R2 M3	TR-317	PB87-146759	NE	NE	NE	NE
Chlorpropamide	94-20-2	FEED	R2 M3	TR-045	PB275178	N	N	N	N
Chromium picolinate monohydrate	27882-76-4	FEED	R2 M22	TR-556	PB2010-115374	EE	NE	NE	NE
C.I. Acid Orange 3	6373-74-6	GAV	R2 M3	TR-335	PB89-216550	NE	CE	NE	NE
C.I. Acid Orange 10	1936-15-8	FEED	R2 M3	TR-211	PB88-169347	N	N	N	N
C.I. Acid Red 14	3567-69-9	FEED	R2 M3	TR-220	PB82-201468	N	N	N	N
C.I. Acid Red 114	6459-94-5	WATER	R2	TR-405	PB92-189380	CE	CE		
C.I. Basic Red 9 Monohydrochloride	569-61-9	FEED	R2 M3	TR-285	PB86-186509	CE	CE	CE	CE
C.I. Direct Blue 15	2429-74-5	WATER	R2	TR-397	PB93-126373	CE	CE		
C.I. Direct Blue 218	28407-37-6	FEED	R2 M3	TR-430	PB94-215993	SE	NE	CE	CE
C.I. Disperse Blue 1	2475-45-8	FEED	R2 M3	TR-299	PB86-248051	CE	CE	EE	EE
C.I. Disperse Yellow 3	2832-40-8	FEED	R2 M3	TR-222	PB82-230061	P	N	N	N
trans-Cinnamaldehyde	14371-10-9	MICRO	R2 M3	TR-514	PB2004-104394	NE	NE	NE	NE
Cinnamyl anthranilate	87-29-6	FEED	R2 M3	TR-196	PB81-143141	P	N	P	P
C.I. Pigment Red 3	2425-85-6	FEED	R2 M3	TR-407	PB92-191634	SE	SE	SE	SE
C.I. Pigment Red 23	6471-49-4	FEED	R2 M3	TR-411	PB93-228435	EE	NE	NE	NE
C.I. Solvent Yellow 14	842-07-9	FEED	R2 M3	TR-226	PB83-126474	P	P	N	N
Citral	5392-40-5	MICRO	R2 M3	TR-505	PB2003-103040	NE	NE	NE	NE
C.I. Vat Yellow 4	128-66-5	FEED	R2 M3	TR-134	PB288821	N	N	P	P
Clonitralid	1420-04-8	FEED	R1 M3	TR-091	PB287124	N	E	IS	IS
Cobalt	7440-48-4	INHAL	R2 RD M22	TR-581	PB2015-101829	CE	CE	CE	CE
Cobalt sulfate heptahydrate	10026-24-1	INHAL	R2 M3	TR-471	PB99-106627	SE	CE	CE	CE
Coconut oil acid diethanolamine condensate	68603-42-9	SP	R2 M3	TR-479	PB2001-103205	NE	EE	CE	CE
Codeine	76-57-3	FEED	R2 M3	TR-455	PB97-116743	NE	NE	NE	NE
Corn oil	8001-30-7	GAV	R2	TR-426	PB95-103958				
Coumaphos	56-72-4	FEED	R2 M3	TR-096	PB290305	N	N	N	N
Coumarin	91-64-5	GAV	R2 M3	TR-422	PB94-215761	SE	EE	SE	SE
m-Cresidine	102-50-1	GAV	R2 M3	TR-105	PB286188	P	P	IS	IS
p-Cresidine	120-71-8	FEED	R2 M3	TR-142	PB295835	P	P	P	P
Cresols	1319-77-3	FEED	R2 M22	TR-550	PB2008-114135	EE			
Cumene	98-82-8	INHAL	R2 M22	TR-542	PB2009-115394	CE	SE	CE	CE
Cupferron	135-20-6	FEED	R2 M3	TR-100	PB287409	P	P	P	P
Cytembena	21739-91-3	IP/IJ	R2 M3	TR-207	PB82-163312	P	P	N	N
Daminozide	1596-84-5	FEED	R2 M3	TR-083	PB285073	N	P	E	E
D&C Red No. 9	5160-02-1	FEED	R2 M3	TR-225	PB82-229592	P	E	N	N
D&C Yellow No. 11	8003-22-3	FEED	R2	TR-463	PB97-107154	SE	SE		
Decabromodiphenyl Ether	1163-19-5	FEED	R2 M3	TR-309	PB86-247780	SE	SE	EE	EE
Decalin	91-17-8	INHAL	R2 RB M3	TR-513	PB2005-107379	CE	NE	NE	NE
Diallyl phthalate	131-17-9	GAV	M3	TR-242	PB83-200824			E	E
Diallyl phthalate	131-17-9	GAV	R2	TR-284	PB86-203742	NE	EE		
4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt	7336-20-1	FEED	R2 M3	TR-412	PB93-132504	NE	NE	NE	NE
2,4-Diaminoanisole sulfate	39156-41-7	FEED	R2 M3	TR-084	PB279940	P	P	P	P
2,4-Diaminophenol dihydrochloride	137-09-7	GAV	R2 M3	TR-401	PB93-117919	NE	NE	SE	SE
2,4-Diaminotoluene (2,4-toluene diamine)	95-80-7	FEED	R2 M3	TR-162	PB293593	P	P	N	N
Diarylanilide yellow	6358-85-6	FEED	R2 M3	TR-030	PB278272	N	N	N	N
Diazinon	333-41-5	FEED	R2 M3	TR-137	PB293889	N	N	N	N
Dibenzo-p-dioxin	262-12-4	FEED	R1 M3	TR-122	PB288475	N	N	N	N
1,2-Dibromo-3-chloropropane	96-12-8	GAV	R1 M3	TR-028	PB277472	P	P	P	P

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1,2-Dibromo-3-chloropropane	96-12-8	INHAL	R2 M3	TR-206	PB82-225632	P	P	P	P
1,2-Dibromo-2,4-dicyanobutane	35691-65-7	SP	R2 M22	TR-555	PB2010-113180	NE	NE	NE	NE
1,2-Dibromoethane	106-93-4	GAV	R1 M3	TR-086	PB288428	P	P	P	P
1,2-Dibromoethane	106-93-4	INHAL	R2 M3	TR-210	PB82-181710	P	P	P	P
2,3-Dibromo-1-propanol	96-13-9	SP	R2 M3	TR-400	PB94-206687	CE	CE	CE	CE
Dibutyl Phthalate	84-74-2	FEED	M3 HSD	TR-600		EE	NE	NE	NE
Dibutyltin diacetate	1067-33-0	FEED	R2 M3	TR-183	PB291567	N	IS	N	N
1,2-Dichlorobenzene (o-dichlorobenzene)	95-50-1	GAV	R2 M3	TR-255	PB86-144888	N	N	N	N
1,4-Dichlorobenzene (p-dichlorobenzene)	106-46-7	GAV	R2 M3	TR-319	PB87-208617	CE	NE	CE	CE
2,7-Dichlorodibenzo-p-dioxin	33857-26-0	FEED	R1 M3	TR-123	PB290570	N	N	E	E
p,p'-Dichlorodiphenyl dichloroethylene	72-55-9	FEED	R1 M3	TR-131	PB286367	N	N	P	P
p,p'-Dichlorodiphenyl sulfone	80-07-9	FEED	R2 M3	TR-501	PB2002-100580	NE	NE	NE	NE
Dichlorodiphenyltrichloroethane (DDT)	50-29-3	FEED	R1 M3	TR-131	PB286367	N	N	N	N
1,1-Dichloroethane	75-34-3	GAV	R1 M3	TR-066	PB283345	N	E	N	N
1,2-Dichloroethane	107-06-2	GAV	R1 M3	TR-055	PB285968	P	P	P	P
2,4-Dichlorophenol	120-83-2	FEED	R2 M3	TR-353	PB90-106170	NE	NE	NE	NE
2,6-Dichloro-p-phenylenediamine	609-20-1	FEED	R2 M3	TR-219	PB82-184052	N	N	P	P
1,2-Dichloropropane (propylene dichloride)	78-87-5	GAV	R2 M3	TR-263	PB87-114443	NE	EE	SE	SE
1,3-Dichloropropene (Telone II)	542-75-6	GAV	R2 M3	TR-269	PB85-230449	CE	SE	IS	IS
Dichlorvos	62-73-7	FEED	R1 M3	TR-010	PB270937	N	N	N	N
Dichlorvos	62-73-7	GAV	R2 M3	TR-342	PB90-198508	SE	EE	SE	SE
Dicofol	115-32-2	FEED	R1 M3	TR-090	PB286206	N	N	P	P
N,N'-Dicyclohexylthiourea	1212-29-9	FEED	R2 M3	TR-056	PB281539	N	N	N	N
Dieldrin	60-57-1	FEED	R1 M3	TR-021	PB275666	N	N	E	E
Dieldrin	60-57-1	FEED	R2	TR-022	PB275676	N	N		
Diesel fuel marine	DIESELFUEL	SP	M3	TR-310	PB87-131678			EE	EE
Diethanolamine	111-42-2	SP	R2 M3	TR-478	PB99-167553	NE	NE	CE	CE
Diethylamine	109-89-7	INHAL	R2 M22	TR-566	PB2012-101985	NE	NE	NE	NE
Di(2-ethylhexyl)adipate	103-23-1	FEED	R2 M3	TR-212	PB82-185927	N	N	P	P
Di(2-ethylhexyl) Phthalate	117-81-7	FEED	HSD	TR-601		CE	CE		
Di(2-ethylhexyl) Phthalate	117-81-7	FEED	HSD	TR-601		CE	CE		
Di(2-ethylhexyl) Phthalate	117-81-7	FEED	R2 M3	TR-217	PB82-184011	P	P	P	P
Di(p-ethylphenyl)dichloroethane	72-56-0	FEED	R2 M3	TR-156	PB290582	N	N	N	N
Diethyl phthalate	84-66-2	SP	R2 M3	TR-429	PB96-162276	NE	NE	EE	EE
Diethyl phthalate/dimethyl phthalate	DIETH/ DIMETH	SP	M5	TR-429	PB96-162276				
N,N'-Diethylthiourea	105-55-5	FEED	R2 M3	TR-149	PB288626	P	P	N	N
Diglycidyl resorcinol ether (DGRE)	101-90-6	GAV	R2 M3	TR-257	PB87-146734	P	P	P	P
3,4-Dihydrocoumarin	119-84-6	GAV	R2 M3	TR-423	PB95-103925	SE	NE	NE	NE
1,2-Dihydro-2,2,4-trimethylquinoline (monomer)	147-47-7	SP	R2 M7 M3	TR-456	PB98-101009	SE	NE	NE	NE
1,2-Dihydro-2,2,4-trimethylquinoline (monomer)	147-47-7	SP	R2 M3	TR-456	PB98-101009				
Diisopropylcarbodiimide	693-13-0	SP	R2 M3	TR-523	PB2007107705	NE	NE	NE	NE
Dimethoate	60-51-5	FEED	R1 M3	TR-004	PB264367	N	N	N	N
Dimethoxane	828-00-2	GAV	R2 M3	TR-354	PB90-220096	NE	NE	EE	EE
2,4-Dimethoxyaniline hydrochloride	54150-69-5	FEED	R2 M3	TR-171	PB288625	N	N	N	N
3,3'-Dimethoxybenzidine dihydrochloride	20325-40-0	WATER	R2	TR-372	PB90-241076	CE	CE		
3,3'-Dimethoxybenzidine-4,4'-diisocyanate	91-93-0	FEED	R2 M3	TR-128	PB290154	P	P	N	N
N,N-Dimethylaniline	121-69-7	GAV	R2 M3	TR-360	PB90-227240	SE	NE	NE	NE
3,3'-Dimethylbenzidine dihydrochloride	612-82-8	WATER	R2	TR-390	PB92-103779	CE	CE		
Dimethyl hydrogen phosphite	868-85-9	GAV	R2 M3	TR-287	PB86-144805	CE	EE	NE	NE
Dimethyl methylphosphonate	756-79-6	GAV	R2 M3	TR-323	PB88-168695	SE	NE	IS	IS
Dimethyl morpholinophosphoramidate	597-25-1	GAV	R2 M3	TR-298	PB86-186491	SE	SE	NE	NE
Dimethyl terephthalate	120-61-6	FEED	R2 M3	TR-121	PB299903	N	N	E	E
N,N-Dimethyl-p-toluidine	99-97-8	GAV	R2 M22	TR-579	PB2013-101130	CE	CE	CE	CE
Dimethylvinyl chloride (DMVC)	513-37-1	GAV	R2 M3	TR-316	PB87-115184	CE	CE	CE	CE
2,4-Dinitrotoluene	121-14-2	FEED	R2 M3	TR-054	PB280990	P	P	N	N
1,4-Dioxane	123-91-1	WATER	R1 M3	TR-080	PB285711	P	P	P	P
Dioxathion	78-34-2	FEED	R1 M3	TR-125	PB286185	N	N	N	N
Diphenhydramine hydrochloride	147-24-0	FEED	R2 M3	TR-355	PB90-219437	EE	EE	NE	NE
5,5-Diphenylhydantoin (phenytoin)	57-41-0	FEED	R2 M3	TR-404	PB94-216009	EE	NE	NE	NE
Dipropylene glycol	25265-71-8	WATER	R2 M3	TR-511	PB2005100832	NE	NE	NE	NE
2,5-Dithiobiurea	142-46-1	FEED	R2 M3	TR-132	PB291535	N	N	N	N
Divinylbenzene	1321-74-0	INHAL	R2 M22	TR-534	PB2007-103745	EE	NE	NE	NE
Doxylamine	469-21-6	FEED	R2 M3	NR-406/407					
Elmiron (sodium pentosanpolysulfate)	37319-17-8	GAV	R2 M3	TR-512	PB2004-106612	NE	NE	SE	SE
Emetine hydrochloride	316-42-7	IP/IJ	R8 M3	TR-043	PB278891	IS	IS	IS	IS
Emodin	518-82-1	FEED	R2 M3	TR-493	PB2001-108194	NE	EE	EE	EE
Endocrine disruptor (Ethinyl estradiol)	57-63-6	FEED	R8	TR-548	PB2011-100789	NE	NE		
Endocrine disruptor (Ethinyl estradiol)	57-63-6	FEED	HSD	TR-548	PB2011-100789	NE	EE		

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Endocrine disruptor (Ethinyl estradiol)	57-63-6	FEED	HSD	TR-548	PB2011-100789	EE	EE		
Endocrine disruptor (Genistein)	446-72-0	FEED	R8	TOX-79	PB2009-115650	NE	SE		
Endosulfan	115-29-7	FEED	R1 M3	TR-062	PB281731	IS	N	IS	IS
Endrin	72-20-8	FEED	R1 M3	TR-012	PB288461	N	N	N	N
Ephedrine sulfate	134-72-5	FEED	R2 M3	TR-307	PB86-247285	NE	NE	NE	NE
Epinephrine hydrochloride	55-31-2	INHAL	R2 M3	TR-380	PB91-142323	IS	IS	IS	IS
1,2-Epoxybutane	106-88-7	INHAL	R2 M3	TR-329	PB88-216262	CE	EE	NE	NE
Erythromycin stearate	643-22-1	FEED	R2 M3	TR-338	PB89-178537	NE	NE	NE	NE
Estradiol mustard	22966-79-6	GAV	R8 M3	TR-059	PB285787	N	N	P	P
Ethanol	64-17-5	WATER	MV	TR-510	PB2005-103486			IS	IS
Ethionamide	536-33-4	FEED	R2 M3	TR-046	PB285193	N	N	N	N
Ethyl acrylate	140-88-5	GAV	R2 M3	TR-259	PB87-204061	P	P	P	P
Ethylbenzene	100-41-4	INHAL	R2 M3	TR-466	PB99-134694	CE	SE	SE	SE
Ethylene glycol	107-21-1	FEED	M3	TR-413	PB93-228427			NE	NE
Ethylene oxide	75-21-8	INHAL	M3	TR-326	PB88-169859			CE	CE
Ethylene thiourea (ETU)	96-45-7	FEED	R2 M3	TR-388	PB92-191618	CE	CE	CE	CE
Ethyl tellurac	20941-65-5	FEED	R2 M3	TR-152	PB298513	E	N	E	E
Eugenol	97-53-0	FEED	R2 M3	TR-223	PB84-186402	N	N	E	E
FD & C Yellow No. 6	2783-94-0	FEED	R2 M3	TR-208	PB82-117433	N	N	N	N
Feed restriction studies	FEEDRESTRICT	MULTI	R2 M3	TR-460	PB98-131014				
Formulated fenaminosulf	140-56-7	FEED	R2 M3	TR-101	PB287443	N	N	N	N
Fenthion	55-38-9	FEED	R2 M3	TR-103	PB293832	N	N	E	E
Fish project 1 (2,2-bis(Bromomethyl)-1,3-propanediol)	3296-90-0	AQUAT	F1	TR-528	PB 2006-102382				
Fish project 1 (2,2-bis(Bromomethyl)-1,3-propanediol)	3296-90-0	AQUAT	F2	TR-528	PB 2006-102382				
Fish project 1 (Nitromethane)	75-52-5	AQUAT	F1	TR-528	PB 2006-102382				
Fish Project 1 (Nitromethane)	75-52-5	AQUAT	F2	TR-528	PB 2006-102382				
Fish project 1 (1,2,3-Trichloropropane)	96-18-4	AQUAT	F1	TR-528	PB 2006-102382				
Fish project 1 (1,2,3-Trichloropropane)	96-18-4	AQUAT	F2	TR-528	PB 2006-102382				
Fluometuron	2164-17-2	FEED	R2 M3	TR-195	PB80-217904	N	N	E	E
Formamide	75-12-7	GAV	R2 M22	TR-541	PB2009-115393	NE	NE	CE	CE
Fumonisin B1	116355-83-0	FEED	R2 MV	TR-496	PB2002-103492	CE	NE	NE	NE
Furan	110-00-9	GAV	R2 M3	TR-402	PB93-228419	CE	CE	CE	CE
Furfural	98-01-1	GAV	R2 M3	TR-382	PB91-108662	SE	NE	CE	CE
Furfuryl alcohol	98-00-0	INHAL	R2 M3	TR-482	PB99-151482	SE	EE	SE	SE
Furosemide	54-31-9	FEED	R2 M3	TR-356	PB90-106162	EE	NE	NE	NE
Gallium arsenide	1303-00-0	INHAL	R2 M3	TR-492	PB2001-102003	NE	CE	NE	NE
Geranyl acetate	105-87-3	GAV	R2 M3	TR-252	PB88-174313	N	N	N	N
Ginkgo biloba extract	90045-36-6	GAV	R2 M22	TR-578	PB2013-107073	SE	SE	CE	CE
Ginseng	50647-08-0	GAV	R2 M22	TR-567	PB2012100177	NE	NE	NE	NE
Glutaraldehyde	111-30-8	INHAL	R2 M3	TR-490	PB2000-1014184	NE	NE	NE	NE
Glycidamide	5694-00-8	WATER	RC MV	TR-588	PB2015-102754	CE	CE	CE	CE
Glycidol	556-52-5	GAV	R2 M3	TR-374	PB90-259094	CE	CE	CE	CE
Goldenseal root powder	GOLDENSEALRT	FEED	R2 M22	TR-562	PB2011-101388	CE	CE	SE	SE
Green Tea Extract	GREENTEAEXTR	GAV	RE RD M22	TR-585	PB2018100060	NE	NE	NE	NE
Guar gum	9000-30-0	FEED	R2 M3	TR-229	PB82-202813	N	N	N	N
Gum Arabic	9000-01-5	FEED	R2 M3	TR-227	PB82-229584	N	N	N	N
HC Blue 1	2784-94-3	FEED	R2 M3	TR-271	PB86-114683	EE	SE	CE	CE
HC Blue 2	33229-34-4	FEED	R2 M3	TR-293	PB86-108339	NE	NE	NE	NE
HC Red 3	2871-01-4	GAV	R2 M3	TR-281	PB86-188075	NE	NE	EE	EE
HC Yellow 4	59820-43-8	FEED	R2 M3	TR-419	PB93-123883	EE	NE	NE	NE
Heptachlor	76-44-8	FEED	R1 M3	TR-009	PB271967	N	E	P	P
Hexachlorocyclopentadiene	77-47-4	INHAL	R2 M3	TR-437	PB94-214186	NE	NE	NE	NE
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	57653-85-7	GAV	R1 M3	TR-198	PB81-124844	E	P	P	P
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	57653-85-7	SP	M6	TR-202	PB81-124836			N	N
Hexachloroethane	67-72-1	GAV	R1 M3	TR-068	PB282668	N	N	P	P
Hexachloroethane	67-72-1	GAV	R2	TR-361	PB90-170895	CE	NE		
Hexachlorophene	70-30-4	FEED	R2	TR-040	PB279525	N	N		
2,4-Hexadienal	142-83-6	GAV	R2 M3	TR-509	PB2004102548	CE	CE	CE	CE
Hexamethyl-p-rosaniline chloride	548-62-9	FEED	R2	NR-338					
Hexamethyl-p-rosaniline chloride	548-62-9	FEED	M3	NR-304					
4-Hexylresorcinol	136-77-6	GAV	R2 M3	TR-330	PB89-128607	NE	NE	EE	EE
Hydrazobenzene	122-66-7	FEED	R2 M3	TR-092	PB285791	P	P	N	N
Hydrochlorothiazide	58-93-5	FEED	R2 M3	TR-357	PB90-110156	NE	NE	EE	EE
Hydroquinone	123-31-9	GAV	R2 M3	TR-366	PB90-240839	SE	SE	NE	NE
2-Hydroxy-4-methoxybenzophenone	131-57-7	FEED	M3 HSD	TR-597		EE	EE	NE	NE
5-(Hydroxymethyl)-2-furfural	67-47-0	GAV	R2 M22	TR-554	PB2010-113179	NE	NE	NE	NE
8-Hydroxyquinoline	148-24-3	FEED	R2 M3	TR-276	PB85-213361	NE	NE	NE	NE
ICRF-159	21416-87-5	IP/IJ	R8 M3	TR-078	PB285853	N	P	N	N

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CHEMICAL NAME	PRIMARY CAS NUMBER	ROUTE	SPECIES	RPT No.	NTIS ** NUMBER	CARCINOGEN CODES MR	FR	MM	FM*+
IPD (3,3'-iminobis-1-propanol dimethanesulfonate (ester) hydrochloride)	3458-22-8	IP/IJ	R8 M3	TR-018	PB277455	E	E	E	E
Indium phosphide	22398-80-7	INHAL	R2 M3	TR-499	PB2002-100069	CE	CE	CE	CE
Indole-3-carbinol	700-06-1	GAV	M3 HSD	TR-584	PB2018100059	NE	SE	CE	CE
Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)	INIT/PROM	SP	M3	TR-441	PB96-214655				
Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)	INIT/PROM	SP	M5	TR-441	PB96-214655				
Init/prom comparative mouse study (DMBA/TPA/BPO/MNNG)	INIT/PROM	SP	M7 M3 M5	TR-441	PB96-214655				
Interferon AD (AIDS Initiative)	INTERFERONAD	SC/IJ	M3	TR-469	PB99-145807				
Interferon AD + 3'-azido-3'-deoxythymidine (AIDS Initiative)	INTAZTCOMB	SC&GV	M3	TR-469	PB99-145807				
Interferon A (AIDS Initiative)	76543-88-9	SC/IJ	M3	TR-469	PB99-145807				
Iodinated glycerol	5634-39-9	GAV	R2 M3	TR-340	PB90-259102	SE	NE	NE	NE
Iodoform	75-47-8	GAV	R1 M3	TR-110	PB286344	N	N	N	N
Isobutene	115-11-7	INHAL	R2 M3	TR-487	PB99-147670	SE	NE	NE	NE
Isobutyl nitrite	542-56-3	INHAL	R2 M3	TR-448	PB97-120232	CE	CE	SE	SE
Isobutyraldehyde	78-84-2	INHAL	R2 M3	TR-472	PB99-134785	NE	NE	NE	NE
Isoeugenol	97-54-1	GAV	R2 M22	TR-551	PB2012111404	EE	NE	CE	CE
Isophorone	78-59-1	GAV	R2 M3	TR-291	PB86-181823	SE	NE	EE	EE
Isophosphamide	3778-73-2	IP/IJ	R8 M3	TR-032	PB275677	N	P	N	N
Isoprene	78-79-5	INHAL	R2	TR-486	PB2000-101651	CE	SE		
Kava kava extract	9000-38-8	GAV	R2 M22	TR-571	PB2012-107445	EE	NE	CE	CE
Lasiocarpine	303-34-4	FEED	R2	TR-039	PB278641	P	P		
Lauric acid diethanolamine condensate	120-40-1	SP	R2 M3	TR-480	PB99-169989	NE	NE	NE	NE
Lead dimethyldithiocarbamate	19010-66-3	FEED	R2 M3	TR-151	PB298512	N	N	N	N
Leucomalachite green	129-73-7	FEED	R2 MV	TR-527	PB2005-107573	EE	EE		
D-Limonene	5989-27-5	GAV	R2 M3	TR-347	PB90-231416	CE	NE	NE	NE
Lindane	58-89-9	FEED	R1 M3	TR-014	PB273480	N	N	N	N
Lithocholic acid	434-13-9	GAV	R2 M3	TR-175	PB288476	N	N	N	N
Locust bean gum	9000-40-2	FEED	R2 M3	TR-221	PB82-163320	N	N	N	N
Magnetic fields (EMF)	ELECTROMAG	WB	R2 M3	TR-488	PB99-152886	EE	NE	NE	NE
Malachite green	569-64-2	FEED	R2 MV	TR-527	PB2005-107573		EE		
Malaoxon	1634-78-2	FEED	R2 M3	TR-135	PB299858	N	N	N	N
Malathion	121-75-5	FEED	R1 M3	TR-024	PB278527	N	N	N	N
Malathion	121-75-5	FEED	R2	TR-192	PB300301	N	N		
Malonaldehyde, sodium salt	24382-04-5	GAV	R2 M3	TR-331	PB89-204010	CE	CE	NE	NE
Manganese sulfate monohydrate	10034-96-5	FEED	R2 M3	TR-428	PB94-217148	NE	NE	EE	EE
D-Mannitol	69-65-8	FEED	R2 M3	TR-236	PB83-129080	N	N	N	N
Melamine	108-78-1	FEED	R2 M3	TR-245	PB83-202630	P	N	N	N
DL-menthol	15356-70-4	FEED	R2 M3	TR-098	PB288761	N	N	N	N
2-Mercaptobenzothiazole	149-30-4	GAV	R2 M3	TR-332	PB88-245154	SE	SE	NE	NE
Mercuric chloride	7487-94-7	GAV	R2 M3	TR-408	PB94-101649	SE	EE	EE	EE
Metal Working Fluids: CIMSTAR 3800	CIMSTAR3800	INHAL	RE RD M22	TR-586	PB2016102573	EE	EE	NE	NE
Metal Working Fluids: TRIM® VX	TRIMVX	INHAL	RE M3	TR-591	PB2018100061	EE	EE	CE	CE
Methacrylonitrile	126-98-7	GAV	R2 M3	TR-497	PB2002-102199	NE	NE	NE	NE
Methapyrilene hydrochloride	135-23-9	FEED	R2 M3	NOTRS-F					
Methoxychlor	72-43-5	FEED	R1 M3	TR-035	PB278271	N	N	N	N
8-Methoxypsoralen	298-81-7	GAV	R2	TR-359	PB90-110164	CE	NE		
alpha-Methylbenzyl alcohol	98-85-1	GAV	R2 M3	TR-369	PB90-241092	SE	NE	NE	NE
Methyl bromide	74-83-9	INHAL	M3	TR-385	PB92-189257			NE	NE
Methyl carbamate	598-55-0	GAV	R2 M3	TR-328	PB88-168570	CE	CE	NE	NE
Methyldopa sesquihydrate	41372-08-1	FEED	R2 M3	TR-348	PB89-216527	NE	NE	EE	EE
4,4'-Methylenebis(N,N-dimethyl)benzenamine	101-61-1	FEED	R2 M3	TR-186	PB299856	P	P	E	E
Methylene blue trihydrate	7220-79-3	GAV	R2 M3	TR-540	PB2015-102751	SE	NE	SE	SE
Methylene chloride	75-09-2	INHAL	R2 M3	TR-306	PB86-187903	SE	CE	CE	CE
4,4'-Methylenedianiline dihydrochloride	13552-44-8	WATER	R2 M3	TR-248	PB83-238824	P	P	P	P
Methyleugenol	93-15-2	GAV	R2 M3	TR-491	PB2000-107865	CE	CE	CE	CE
2-Methylimidazole	693-98-1	FEED	R2 M22	TR-516	PB2005-103484	SE	CE	SE	SE
4-Methylimidazole	822-36-6	FEED	R2 M3	TR-535	PB2007-106091	NE	EE	CE	CE
Methyl isobutyl ketone	108-10-1	INHAL	R2 M3	TR-538	PB2007-107706	SE	EE	SE	SE
Methyl methacrylate	80-62-6	INHAL	R2 M3	TR-314	PB87-146742	NE	NE	NE	NE
2-Methyl-1-nitroanthraquinone	129-15-7	FEED	R2 M3	TR-029	PB277439	P	P	P	P
N-Methylolacrylamide	924-42-5	GAV	R2 M3	TR-352	PB90-226374	NE	NE	CE	CE
Methyl parathion	298-00-0	FEED	R2 M3	TR-157	PB295891	N	N	N	N
Methylphenidate hydrochloride	298-59-9	FEED	R2 M3	TR-439	PB96-162615	NE	NE	SE	SE
alpha-Methylstyrene	98-83-9	INHAL	R2 M22	TR-543	PB2014-104052	SE	NE	EE	EE
Methyl trans-styryl ketone	1896-62-4	SP	R2 M22	TR-572	PB2012112090	NE	NE	NE	NE
Mexacarbate	315-18-4	FEED	R1 M3	TR-147	PB287471	N	N	N	N

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Long-Term Studies

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Michler's ketone	90-94-8	FEED	R2 M3	TR-181	PB299855	P	P	P	P
Milk thistle extract	84604-20-6	FEED	R2 M22	TR-565	PB2011-110858	NE	NE	NE	NE
Mirex	2385-85-5	FEED	R2	TR-313	PB90-241084	CE	CE		
Molybdenum trioxide	1313-27-5	INHAL	R2 M3	TR-462	PB98-107048	EE	NE	SE	SE
Monochloroacetic acid	79-11-8	GAV	R2 M3	TR-396	PB92-189372	NE	NE	NE	NE
Monuron	150-68-5	FEED	R2 M3	TR-266	PB89-109615	CE	NE	NE	NE
beta-Myrcene	123-35-3	GAV	R2 M22	TR-557	PB2011-105235	CE	EE	CE	CE
Nalidixic acid	389-08-2	FEED	R2 M3	TR-368	PB90-256389	CE	CE	EE	EE
Naphthalene	91-20-3	INHAL	M3	TR-410	PB92-224260/AS			NE	NE
Naphthalene	91-20-3	INHAL	R2	TR-500	PB2001-103699	CE	CE		
1,5-Naphthalenediamine	2243-62-1	FEED	R2 M3	TR-143	PB287646	N	P	P	P
N-(1-Naphthyl)ethylenediamine dihydrochloride	1465-25-4	FEED	R2 M3	TR-168	PB289733	N	N	N	N
Navy fuels JP-5	8008-20-6	SP	M3	TR-310	PB87-131678			NE	NE
Nickel (II) oxide	1313-99-1	INHAL	R2 M3	TR-451	PB97-116701	SE	SE	NE	NE
Nickel sulfate hexahydrate	10101-97-0	INHAL	R2 M3	TR-454	PB97-120216	NE	NE	NE	NE
Nickel subsulfide	12035-72-2	INHAL	R2 M3	C61654		CE	CE	NE	NE
Nithiazide	139-94-6	FEED	R2 M3	TR-146	PB295897	N	P	P	P
Nitrilotriacetic acid (NTA)	139-13-9	FEED	R2 M3	TR-006	PB266177	P	P	P	P
Nitrilotriacetic acid trisodium monohydrate	18662-53-8	FEED	R2	TR-006	PB266177	P	P		
Nitrilotriacetic acid trisodium monohydrate	18662-53-8	FEED	R2 M3	TR-006	PB266177	E	E	N	N
5-Nitroacenaphthene	602-87-9	FEED	R2 M3	TR-118	PB287347	P	P	N	N
3-Nitro-p-acetophenetide	1777-84-0	FEED	R2 M3	TR-133	PB299857	N	N	P	P
p-Nitroaniline	100-01-6	GAV	M3	TR-418	PB94-104528			EE	EE
5-Nitro-o-anisidine	99-59-2	FEED	R2 M3	TR-127	PB287411	P	P	E	E
o-Nitroanisole	91-23-6	FEED	R2 M3	TR-416	PB94-109758	CE	CE	CE	CE
4-Nitroanthranilic acid	619-17-0	FEED	R2 M3	TR-109	PB286942	N	N	N	N
6-Nitrobenzimidazole	94-52-0	FEED	R2 M3	TR-117	PB293834	N	N	P	P
p-Nitrobenzoic acid	62-23-7	FEED	R2 M3	TR-442	PB95-226254	NE	SE	NE	NE
Nitrofen	1836-75-5	FEED	R2 M3	TR-184	PB296038	N	N	P	P
Nitrofen	1836-75-5	FEED	R1 M3	TR-026	PB277440	IS	P	P	P
Nitrofurantoin	67-20-9	FEED	R2 M3	TR-341	PB90-197930	SE	NE	NE	NE
Nitrofurazone	59-87-0	FEED	R2 M3	TR-337	PB89-102388	EE	CE	NE	NE
Nitromethane	75-52-5	INHAL	R2 M3	TR-461	PB97-205967	NE	CE	CE	CE
1-Nitronaphthalene	86-57-7	FEED	R2 M3	TR-064	PB282310	N	N	N	N
p-Nitrophenol	100-02-7	SP	M6	TR-417	PB94-109667			NE	NE
2-Nitro-p-phenylenediamine	5307-14-2	FEED	R2 M3	TR-169	PB290304	N	N	N	N
4-Nitro-o-phenylenediamine	99-56-9	FEED	R2 M3	TR-180	PB290306	N	N	N	N
3-Nitropropionic acid	504-88-1	GAV	R2 M3	TR-052	PB281102	E	N	N	N
N-Nitrosodiphenylamine	86-30-6	FEED	R2 M3	TR-164	PB298275	P	P	N	N
p-Nitrosodiphenylamine	156-10-5	FEED	R2 M3	TR-190	PB291500	P	N	P	P
beta-Nitrostyrene	102-96-5	GAV	R2 M3	TR-170	PB300949	N	N	N	N
o-Nitrotoluene	88-72-2	FEED	R2 M3	TR-504	PB2002-108715	CE	CE	CE	CE
p-Nitrotoluene	99-99-0	FEED	R2 M3	TR-498	PB2002-108714	EE	SE	EE	EE
5-Nitro-o-toluidine	99-55-8	FEED	R2 M3	TR-107	PB285872	N	N	P	P
Ochratoxin A	303-47-9	GAV	R2	TR-358	PB90-219478	CE	CE		
Oleic acid diethanolamine condensate	93-83-4	SP	R2 M3	TR-481	PB99-167561	NE	NE	NE	NE
Oxazepam	604-75-1	FEED	M6 M3	TR-443	PB94-184181			CE	CE
Oxazepam	604-75-1	FEED	R2	TR-468	PB99-120875	EE	NE		
4,4'-Oxydianiline	101-80-4	FEED	R2 M3	TR-205	PB80-217938	P	P	P	P
Oxymetholone	434-07-1	GAV	R2 M3	TR-485	PB2000-101419	EE	CE		
Oxytetracycline hydrochloride	2058-46-0	FEED	R2 M3	TR-315	PB87-204103	EE	EE	NE	NE
Ozone	10028-15-6	INHAL	R2 M3	TR-440	PB95-226999	NE	NE	EE	EE
Ozone	10028-15-6	INHAL	R2 M3	TR-440	PB95-226999	NE	NE	EE	EE
Ozone/NNK	OZONNNKCOMB	INHAL	R2	TR-440	PB95-226999				
Parathion	56-38-2	FEED	R1 M3	TR-070	PB288803	E	E	N	N
Penicillin VK	132-98-9	GAV	R2 M3	TR-336	PB89-128615	NE	NE	NE	NE
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]	32534-81-9	GAV	R2 RE M3	TR-589	PB2016103214	CE	CE	CE	CE
Pentachloroanisole	1825-21-4	GAV	R2 M3	TR-414	PB94-104536	SE	EE	SE	SE
Pentachloroethane	76-01-7	GAV	R2 M3	TR-232	PB83-206748	E	N	P	P
Pentachloronitrobenzene	82-68-8	FEED	R1 M3	TR-061	PB281732	N	N	N	N
Pentachloronitrobenzene	82-68-8	FEED	M3	TR-325	PB87-208633			NE	NE
Pentachlorophenol, Dowicide EC-7	87-86-5	FEED	M3	TR-349	PB89-216536			CE	CE
Pentachlorophenol, purified	87-86-5	FEED	R2	TR-483	PB99-152878	SE	NE		
Pentachlorophenol, technical	87-86-5	FEED	M3	TR-349	PB89-216536			CE	CE
Pentaerythritol tetranitrate	78-11-5	FEED	R2 M3	TR-365	PB90-219452	EE	EE	NE	NE
Perfluorooctanoic acid (PFOA)	335-67-1	FEED	HSD	TR-598		IS	SE		
Perfluorooctanoic acid (PFOA)	335-67-1	FEED	HSD	TR-598		CE			
Phenazopyridine hydrochloride	136-40-3	FEED	R2 M3	TR-099	PB286207	P	P	N	N
Phenesterin	3546-10-9	GAV	R8 M3	TR-060	PB283361	N	P	P	P

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Phenformin hydrochloride	834-28-6	FEED	R2 M3	TR-007	PB266176	N	N	N	N
Phenol	108-95-2	WATER	R2 M3	TR-203	PB80-217946	N	N	N	N
Phenolphthalein	77-09-8	FEED	R2 M3	TR-465	PB97-169882	CE	SE	CE	CE
Phenoxybenzamine hydrochloride	63-92-3	IP/IJ	R8 M3	TR-072	PB285095	P	P	P	P
Phenylbutazone	50-33-9	GAV	R2 M3	TR-367	PB90-258765	EE	SE	SE	SE
p-Phenylenediamine dihydrochloride	624-18-0	FEED	R2 M3	TR-174	PB290124	N	N	N	N
Phenylephrine hydrochloride	61-76-7	FEED	R2 M3	TR-322	PB87-208609	NE	NE	NE	NE
1-Phenyl-3-methyl-5-pyrazolone	89-25-8	FEED	R2 M3	TR-141	PB287122	N	N	N	N
N-Phenyl-2-naphthylamine	135-88-6	FEED	R2 M3	TR-333	PB88-216270	NE	NE	NE	NE
o-Phenylphenol	90-43-7	SP	M4	TR-301	PB86-217239			NE	NE
N-Phenyl-p-phenylenediamine	101-54-2	FEED	R2 M3	TR-082	PB285856	N	N	N	N
1-Phenyl-2-thiourea	103-85-5	FEED	R2 M3	TR-148	PB287357	N	N	N	N
Phosphamidon	13171-21-6	FEED	R1 M3	TR-016	PB288800	E	E	N	N
Photodieldrin	13366-73-9	FEED	R1 M3	TR-017	PB274393	N	N	N	N
Phthalamide	88-96-0	FEED	R2 M3	TR-161	PB293831	N	N	N	N
Phthalic anhydride	85-44-9	FEED	R2 M3	TR-159	PB293594	N	N	N	N
Picloram	1918-02-1	FEED	R1 M3	TR-023	PB276471	N	E	N	N
beta-Picoline	108-99-6	WATER	R2 M22	TR-580	PB2015-102752	NE	SE	EE	EE
Piperonyl butoxide	51-03-6	FEED	R2 M3	TR-120	PB288753	N	N	N	N
Piperonyl sulfoxide	120-62-7	FEED	R2 M3	TR-124	PB288778	N	N	P	P
Pivalolactone	1955-45-9	GAV	R2 M3	TR-140	PB287645	P	P	N	N
Polybrominated biphenyl mixture (Firemaster FF-1)	67774-32-7	GAV	R2 M3	TR-244	PB83-240473	P	P	P	P
Polybrominated biphenyl mixture (Firemaster FF-1)	67774-32-7	FEED	R2 M3	TR-398	PB94-184066	CE	CE	CE	CE
Polysorbate 80 (glycol)	9005-65-6	FEED	R2 M3	TR-415	PB92-189331/AS	EE	NE	NE	NE
Polyvinyl alcohol	9002-89-5	IVAG	M3	TR-474	PB98-148869				
Primidone (primaclone)	125-33-7	FEED	R2 M3	TR-476	PB2001-102004	EE	NE	CE	CE
Probenecid	57-66-9	GAV	R2 M3	TR-395	PB92-129584/AS	NE	NE	NE	NE
Procarbazine hydrochloride	366-70-1	IP/IJ	R8 M3	TR-019	PB299902	P	P	P	P
Proflavin hydrochloride	952-23-8	FEED	R2 M3	TR-005	PB268553	E	N	E	E
Promethazine hydrochloride	58-33-3	GAV	R2 M3	TR-425	PB94-210192	NE	NE	NE	NE
Propargyl alcohol	107-19-7	INHAL	R2 M22	TR-552	PB2009-102214	SE	NE	SE	SE
Propylene	115-07-1	INHAL	R2 M3	TR-272	PB86-145521	NE	NE	NE	NE
Propylene glycol mono-t-butyl ether	57018-52-7	INHAL	RB R2 M3	TR-515	PB2004-104949	EE	NE	CE	CE
1,2-Propylene oxide	75-56-9	INHAL	R2 M3	TR-267	PB85-179653	SE	SE	CE	CE
Propyl gallate	121-79-9	FEED	R2 M3	TR-240	PB83-180042	E	N	E	E
Pulegone	89-82-7	GAV	R2 M22	TR-563	PB2011-114186	NE	SE	CE	CE
Pyrazinamide	98-96-4	FEED	R2 M3	TR-048	PB280251	N	N	N	N
Pyridine	110-86-1	WATER	R9 R2 M3	TR-470	PB2000-106687	SE	EE	CE	CE
Pyridine	110-86-1	WATER	R9	TR-470	PB2000-106687	EE			
Pyrilamine	91-84-9	FEED	R2 M3	NR-408/409					
Pyrimethamine	58-14-0	FEED	R2 M3	TR-077	PB282608	N	N	IS	IS
Pyrogallol	87-66-1	SP	R2 M22	TR-574	PB2013-105507	NE	NE	EE	EE
Quercetin	117-39-5	FEED	R2	TR-409	PB93-147478	SE	NE		
Reserpine	50-55-5	FEED	R2 M3	TR-193	PB83-165761	P	N	P	P
Resorcinol	108-46-3	GAV	R2 M3	TR-403	PB93-126381	NE	NE	NE	NE
All-trans-retinyl palmitate	79-81-2	SP	MT	TR-568	PB2013-100226				
Rhodamine 6G	989-38-8	FEED	R2 M3	TR-364	PB90-219460	EE	EE	NE	NE
Riddelliine	23246-96-0	GAV	R2 M3	TR-508	PB2003-106432	CE	CE	CE	CE
Rotenone	83-79-4	FEED	R2 M3	TR-320	PB89-139760	EE	NE	NE	NE
Roxarsone	121-19-7	FEED	R2 M3	TR-345	PB89-216543	EE	NE	NE	NE
Safflower oil	8001-23-8	GAV	R2	TR-426	PB95-103958				
Salicylazosulfapyridine	599-79-1	GAV	R2 M3	TR-457	PB97-212708	SE	SE	CE	CE
Scopolamine hydrobromide trihydrate	6533-68-2	GAV	R2 M3	TR-445	PB97-208946	NE	NE	NE	NE
Selenium sulfide	7446-34-6	GAV	R2 M3	TR-194	PB82-164955	P	P	N	N
Selenium sulfide	7446-34-6	SP	M4	TR-197	PB82-165291			N	N
Selsun	EMTDP-74	SP	M4	TR-199	PB82-164542			N	N
Sodium azide	26628-22-8	GAV	R2	TR-389	PB92-135615	NE	NE		
Sodium dichromate dihydrate (VI)	7789-12-0	WATER	R2 M22	TR-546	PB2008-114134	CE	CE	CE	CE
Sodium diethyldithiocarbamate	148-18-5	FEED	R2 M3	TR-172	PB293833	N	N	N	N
Sodium Fluoride	7681-49-4	WATER	R2 M3	TR-393	PB91-178137	EE	NE	NE	NE
Sodium nitrite	7632-00-0	WATER	R2 M3	TR-495	PB2001-107676	NE	NE	NE	NE
Sodium Tungstate Dihydrate	10213-10-2	WATER	M3 HSD	TR-599		NE	EE	EE	EE
Sodium xylenesulfonate	1300-72-7	SP	R2 M3	TR-464	PB98-168719	NE	NE	NE	NE
Stannous chloride	7772-99-8	FEED	R2 M3	TR-231	PB82-242553	E	N	N	N
Stoddard solvent (type lIC)	64742-88-7	INHAL	R2 M3	TR-519	PB2005-103487	SE	NE	NE	NE
Styrene	100-42-5	GAV	R2 M3	TR-185	PB300977	N	N	E	E
Styrene-acrylonitrile trimer	SANTRIMER2	FEED	R2	TR-573	PB2012112739	NE	NE		
Succinic anhydride	108-30-5	GAV	R2 M3	TR-373	PB90-231135	NE	NE	NE	NE
Sulfallate	95-06-7	FEED	R1 M3	TR-115	PB286386	P	P	P	P

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Sulfamethazine	57-68-1	FEED	R2	NR-420					
Sulfamethazine	57-68-1	FEED	M3	NR-418					
Sulfisoxazole	127-69-5	GAV	R2 M3	TR-138	PB288779	N	N	N	N
3-Sulfolene	77-79-2	GAV	R1 M3	TR-102	PB284656	N	N	N	N
4,4'-Sulfonyldianiline (Dapsone)	80-08-0	FEED	R2 M3	TR-020	PB274394	P	N	N	N
Talc	14807-96-6	INHAL	R2 M3	TR-421	PB94-215985	SE	CE	NE	NE
Tara gum	39300-88-4	FEED	R2 M3	TR-224	PB82-195546	N	N	N	N
Toxic equivalency factor evaluation (Binary mixture; PCB 126/PCB 153)	TEFBINARYMIX	GAV	HSD	TR-530	PB2008109743		CE		
Toxic equivalency factor evaluation (PECDF (Pentachlorodibenzofuran))	57117-31-4	GAV	HSD	TR-525	PB2007-103746		SE		
Toxic equivalency factor evaluation (PCB 118)	31508-00-6	GAV	HSD	TR-559	PB2011-103866		CE		
Toxic equivalency factor evaluation (PCB Mixture; PCB 126/PCB 118)	TEFPCBMIX	GAV	HSD	TR-531	PB2007-103748		CE		
Toxic equivalency factor evaluation (TCDD)	1746-01-6	GAV	HSD	TR-521	PB 2006-112291		CE		
Tetrabromobisphenol A	79-94-7	GAV	RD RE M22	TR-587	PB2015-102753	EE	CE	SE	SE
3,3',4,4'-Tetrachloroazobenzene	14047-09-7	GAV	HSD M22	TR-558	PB2011-104500	CE	CE	CE	CE
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746-01-6	GAV	R1 M3	TR-209	PB82-163445	P	P	P	P
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746-01-6	SP	M6	TR-201	PB82-163684			E	E
Tetrachlorodiphenylethane	72-54-8	FEED	R1 M3	TR-131	PB286367	E	N	N	N
1,1,1,2-Tetrachloroethane	630-20-6	GAV	R2 M3	TR-237	PB83-218206	E	N	P	P
1,1,2,2-Tetrachloroethane	79-34-5	GAV	R1 M3	TR-027	PB277453	E	N	P	P
Tetrachloroethylene	127-18-4	GAV	R1 M3	TR-013	PB272940	IS	IS	P	P
Tetrachloroethylene	127-18-4	INHAL	R2 M3	TR-311	PB87-147054	CE	SE	CE	CE
2,3,5,6-Tetrachloro-4-nitroanisole	2438-88-2	FEED	R2 M3	TR-114	PB287642	N	N	N	N
Tetrachlorvinphos	961-11-5	FEED	R1 M3	TR-033	PB278650	N	P	P	P
Tetracycline hydrochloride	64-75-5	FEED	R2 M3	TR-344	PB90-198540	NE	NE	NE	NE
Tetraethylthiuram disulfide	97-77-8	FEED	R2 M3	TR-166	PB298514	N	N	N	N
Tetrafluoroethylene	116-14-3	INHAL	R2 M3	TR-450	PB97-208508	CE	CE	CE	CE
1-trans-delta-9-Tetrahydrocannabinol	1972-08-3	GAV	R2 M3	TR-446	PB97-182208	NE	NE	EE	EE
Tetrahydrofuran	109-99-9	INHAL	R2 M3	TR-475	PB98-164544	SE	NE	NE	NE
Tetrakis(hydroxymethyl)phosphonium chloride	124-64-1	GAV	R2 M3	TR-296	PB87-204137	NE	NE	NE	NE
Tetrakis(hydroxymethyl)phosphonium sulfate	55566-30-8	GAV	R2 M3	TR-296	PB87-204137	NE	NE	NE	NE
Tetralin	119-64-2	INHAL	R2 RB M3 M22	TR-561	PB2011-110773	SE	SE	NE	NE
Tetranitromethane	509-14-8	INHAL	R2 M3	TR-386	PB91-113373	CE	CE	CE	CE
Theophylline	58-55-9	GAV	R2 M3	TR-473	PB99-113342	NE	NE	NE	NE
4,4-Thiobis(6-tert-butyl-m-cresol)	96-69-5	FEED	R2 M3	TR-435	PB95-225751	NE	NE	NE	NE
4,4'-Thiodianiline	139-65-1	FEED	R2 M3	TR-047	PB280360	P	P	P	P
beta-Thioguanidine deoxyriboside	789-61-7	IP/IJ	R8 M3	TR-057	PB281540	E	P	IS	IS
alpha/beta Thujone mixture	76231-76-0	GAV	R2 M22	TR-570	PB2012-102007	SE	NE	NE	NE
Titanium dioxide	13463-67-7	FEED	R2 M3	TR-097	PB288780	N	N	N	N
Titanocene dichloride	1271-19-8	GAV	R2 M3	TR-399	PB92-129576/AS	EE	EE		
Tolazamide	1156-19-0	FEED	R2 M3	TR-051	PB284610	N	N	N	N
Tolbutamide	64-77-7	FEED	R2 M3	TR-031	PB274483	N	N	N	N
Toluene	108-88-3	INHAL	R2 M3	TR-371	PB90-256371	NE	NE	NE	NE
2,6-Toluenediamine dihydrochloride (2,6-diaminotoluene dihydrochloride)	15481-70-6	FEED	R2 M3	TR-200	PB80-217912	N	N	N	N
2,5-Toluenediamine sulfate	6369-59-1	FEED	R2 M3	TR-126	PB287127	N	N	N	N
2,4- & 2,6-Toluene diisocyanate	26471-62-5	GAV	R2 M3	TR-251	PB87-115176	P	P	N	N
o-Toluidine hydrochloride	636-21-5	FEED	R2 M3	TR-153	PB290908	P	P	P	P
Toxaphene	8001-35-2	FEED	R1 M3	TR-037	PB292290	E	E	P	P
Toxic equivalency factor evaluation (Dioxin mixture)	TEFDIOXINMIX	GAV	HSD	TR-526	PB2007-103747		CE		
Toxic equivalency factor evaluation (PCB 153- 2,2'-4,4',5,5'-hexachlorobiphenyl)	35065-27-1	GAV	HSD	TR-529	PB 2006-113416		EE		
Toxic equivalency factor evaluation ((PCB 126) 3,3',4,4',5-pentachlorobiphenyl)	57465-28-8	GAV	HSD	TR-520	PB 2006-109013		CE		
Tremolite	14567-73-8	FEED	R2	TR-277	PB90-226572	N	N		
Triamterene	396-01-0	FEED	R2 M3	TR-420	PB94-213782	EE	NE	SE	SE
Tribromomethane	75-25-2	GAV	R2 M3	TR-350	PB90-110149	SE	CE	NE	NE
Tricaprylin	538-23-8	GAV	R2	TR-426	PB95-103958				
1,1,1-Trichloroethane	71-55-6	GAV	R1 M3	TR-003	PB265082	IS	IS	IS	IS
1,1,2-Trichloroethane	79-00-5	GAV	R1 M3	TR-074	PB283337	N	N	P	P
Trichloroethylene	79-01-6	GAV	R1 M3	TR-002	PB264122	N	N	P	P
Trichloroethylene	79-01-6	GAV	R4 R3	TR-273	PB88-218896	IS	IS		
Trichloroethylene	79-01-6	GAV	R1 R6	TR-273	PB88-218896	IS	IS		
Trichloroethylene	79-01-6	GAV	R2 M3	TR-243	PB91-111815	IS	N	P	P
Trichlorofluoromethane	75-69-4	GAV	R1 M3	TR-106	PB286187	IS	IS	N	N

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2,4,6-Trichlorophenol	88-06-2	FEED	R2 M3	TR-155	PB293770	P	N	P	P
1,2,3-Trichloropropane	96-18-4	GAV	R2 M3	TR-384	PB94-207784	CE	CE	CE	CE
Tricresyl Phosphate	1330-78-5	FEED	R2 M3	TR-433	PB95-227377	NE	NE	NE	NE
Triethanolamine	102-71-6	SP	R2 M3 M7	TR-449	PB2000-102846	EE	NE	IS	IS
Triethanolamine	102-71-6	SP	M22	TR-518	PB2004-106613			EE	EE
Trifluralin	1582-09-8	FEED	R1 M3	TR-034	PB278610	N	N	N	N
2,4,5-Trimethylaniline	137-17-7	FEED	R2 M3	TR-160	PB293802	P	P	E	E
Trimethylolpropane triacrylate	15625-89-5	SP	R2 M3	TR-576	PB2013-103565	EE	NE	NE	NE
Trimethylphosphate	512-56-1	GAV	R2 M3	TR-081	PB285851	P	N	N	N
Trimethylthiourea	2489-77-2	FEED	R2 M3	TR-129	PB288802	N	P	N	N
Triphenyltin hydroxide	76-87-9	FEED	R2 M3	TR-139	PB287399	N	N	N	N
Triprolidine	486-12-4	FEED	R2 M3	NR-414/415					
tris(Aziridinyl)-phosphine sulfide (Thio-TEPA)	52-24-4	IP/IJ	R8 M3	TR-058	PB285702	P	P	P	P
Tris(2-Chloroethyl) Phosphate	115-96-8	GAV	R2 M3	TR-391	PB92-105147	CE	CE	EE	EE
tris(2,3-Dibromopropyl) phosphate	126-72-7	FEED	R2 M3	TR-076	PB280271	P	P	P	P
tris(2-Ethylhexyl)phosphate	78-42-2	GAV	R2 M3	TR-274	PB85-171502	EE	NE	NE	NE
Trisodium ethylenediaminetetraacetate trihydrate (EDTA)	150-38-9	FEED	R2 M3	TR-011	PB270938	N	N	N	N
L-Tryptophan	73-22-3	FEED	R2 M3	TR-071	PB285792	N	N	N	N
Turmeric, oleoresin (curcumin)	8024-37-1	FEED	R2 M3	TR-427	PB94-184173	NE	EE	EE	EE
Urethane	51-79-6	WATER	MV	TR-510	PB2005-103486			CE	CE
Urethane + ethanol (combination)	URETHCOMB	WATER	MV	TR-510	PB2005-103486			CE	CE
Vanadium pentoxide	1314-62-1	INHAL	R2 M3	TR-507	PB2003102385	SE	EE	CE	CE
4-Vinylcyclohexene	100-40-3	GAV	R2 M3	TR-303	PB87-116182	IS	IS	IS	IS
4-Vinyl-1-cyclohexene diepoxide	106-87-6	SP	R2 M3	TR-362	PB90-219957	CE	CE	CE	CE
Vinylidene Chloride	75-35-4	INHAL	R2 M22	TR-582	PB2016102571	CE	SE	CE	CE
Vinylidene Chloride	75-35-4	GAV	R2 M3	TR-228	PB82-258393	N	N	N	N
Vinyl toluene	25013-15-4	INHAL	R2 M3	TR-375	PB90-260035	NE	NE	NE	NE
Water disinfection byproducts (Bromochloroacetic acid)	5589-96-8	WATER	R2 M22	TR-549	PB2010-100853	CE	CE	CE	CE
Water disinfection byproducts (Bromodichloroacetic Acid)	71133-14-7	WATER	RD M22	TR-583	PB2016102572	CE	CE	CE	CE
Water disinfection byproducts (Bromodichloromethane)	75-27-4	WATER	R2 M22	TR-532	PB 2006-111415	NE			
Water disinfection byproducts (Dibromoacetic acid)	631-64-1	WATER	R2 M3	TR-537	PB2008-109733	SE	SE	CE	CE
Water disinfection byproducts (Dibromoacetonitrile)	3252-43-5	WATER	R2 M22	TR-544	PB2010-114243	CE	SE	CE	CE
Water disinfection byproducts (Sodium chlorate)	7775-09-9	WATER	R2 M3	TR-517	PB 2006-107479	SE	SE	NE	NE
Xylenes (mixed)	1330-20-7	GAV	R2 M3	TR-327	PB87-189684	NE	NE	NE	NE
2,6-Xylidine	87-62-7	FEED	RA	TR-278	PB90-256363	P	P		
Zearalenone	17924-92-4	FEED	R2 M3	TR-235	PB83-165753	N	N	P	P
Zinc Carbonate, Basic	5263-02-5	FEED	HSD	TR-592		EE	NE		
Ziram	137-30-4	FEED	R2 M3	TR-238	PB83-202622	P	N	N	N

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

CHEMICAL NAME	PRIMARY CAS NUMBER	ROUTE	SPECIES	COMMENTS	FOOTNOTE REFERENCE
Actinomycin D	50-76-0	IP/IJ	R8 M4	RESULTS REPORTED IN JOURNAL ARTICLE	A
Agaritine	2757-90-6	WATER	M4	RESULTS REPORTED IN JOURNAL ARTICLE	E
3-Amino-9-ethylcarbazole	132-32-1	FEED	R2 M3		
Amsacrine	51264-14-3	IP/IJ	R2 M3		
L-Arginine Glutamate	4320-30-3	FEED	R2 M1		
Azathioprine	446-86-6	IP/IJ	R8 M4	RESULTS REPORTED IN JOURNAL ARTICLE	A
Benzyl chloride	100-44-7	GAV	R2 M3	RESULTS REPORTED IN JOURNAL ARTICLE	H
1,3-bis(Chloroethyl)-1-nitrosourea	154-93-8	IP/IJ	R8 M4	RESULTS REPORTED IN JOURNAL ARTICLE	A
bis(Chloromethyl) ether	542-88-1	INHAL	R8 H1		
1,3-Butadiene	106-99-0	INHAL	M3		Q
Calcium chromate	13765-19-0	INHAL	R8 H1		
Carbon tetrachloride	56-23-5	GAV	R1 M3		
Chlorambucil	305-03-3	IP/IJ	R8 M4	RESULTS REPORTED IN JOURNAL ARTICLE	A

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CHEMICAL NAME	PRIMARY CAS NUMBER	ROUTE	SPECIES	COMMENTS	FOOTNOTE REFERENCE
Chloromethyl methyl ether	107-30-2	INHAL	R8 H1		
Chromium	7440-47-3	INHAL	R8 H1		
Cyclohexanone	108-94-1	WATER	R2 M3	RESULTS REPORTED IN JOURNAL ARTICLE	J
Cyclophosphamide	50-18-0	IP/IJ	R8 M4	RESULTS REPORTED IN JOURNAL ARTICLE	A
Cytarabine	147-94-4	IP/IJ	R8 M4	RESULTS REPORTED IN JOURNAL ARTICLE	A
Cytoxal alcohol	4465-94-5	IP/IJ	R8 M4	RESULTS REPORTED IN JOURNAL ARTICLE	A
Dacarbazine	4342-03-4	IP/IJ	R8 M4	RESULTS REPORTED IN JOURNAL ARTICLE	A
Daunomycin	20830-81-3	IP/IJ	R8 M4	RESULTS REPORTED IN JOURNAL ARTICLE	A
o,p'-DDD	53-19-0	IP/IJ	R8 M4	RESULTS REPORTED IN JOURNAL ARTICLE	A
Dibromodulcitol	10318-26-0	IP/IJ	R8 M4	RESULTS REPORTED IN JOURNAL ARTICLE	A
Dibromomannitol	488-41-5	IP/IJ	R8 M4	RESULTS REPORTED IN JOURNAL ARTICLE	A
Dichloromethotrexate	528-74-5	IP/IJ	R8 M4	RESULTS REPORTED IN JOURNAL ARTICLE	A
Dimethylcarbamoyl chloride	79-44-7	INHAL	R8 H1		
Dimethyl hydrazine (DMH)	57-14-7	INHAL	M1		
1,2-Dimethylhydrazine 2HCl	306-37-6	FEED	R2		
Epichlorhydrin	106-89-8	INHAL	R8		
Furan	110-00-9	GAV	RC		C10119
Guanazole	1455-77-2	IP/IJ	R8 M4	RESULTS REPORTED IN JOURNAL ARTICLE	A
Hexanamide	628-02-4	FEED	R2 M1		
Hydroxyurea	127-07-1	IP/IJ	R8 M4	RESULTS REPORTED IN JOURNAL ARTICLE	A
Insertional Mutagenesis - Definitive Vector Study	INSERTMUT3	IV	M1		
Lomustine	13010-47-4	IP/IJ	R8 M4	RESULTS REPORTED IN JOURNAL ARTICLE	A
Melphalan	148-82-3	IP/IJ	R8 M4	RESULTS REPORTED IN JOURNAL ARTICLE	A
6-Mercaptopurine	50-44-2	IP/IJ	R8 M4	RESULTS REPORTED IN JOURNAL ARTICLE	A
Merphalan	531-76-0	IP/IJ	R8 M4	RESULTS REPORTED IN JOURNAL ARTICLE	A
Methotrexate	59-05-2	IP/IJ	R8 M4	RESULTS REPORTED IN JOURNAL ARTICLE	A
Methyl CCNU	13909-09-6	IP/IJ	R8 M4	RESULTS REPORTED IN JOURNAL ARTICLE	A
Methyl isocyanate	624-83-9	INHAL	NA		R
6-Methylmercaptopurine ribonucleoside	342-69-8	IP/IJ	R8 M4	RESULTS REPORTED IN JOURNAL ARTICLE	A
2-Methyl-1-nitroanthraquinone	129-15-7	FEED	M3	RESULTS REPORTED IN JOURNAL ARTICLE	D
Mitomycin C	50-07-7	IP/IJ	R8 M4	RESULTS REPORTED IN JOURNAL ARTICLE	A
Mouse ageing study	MOUSEAGE		M3	RESULTS REPORTED IN JOURNAL ARTICLE	O
Nitrofurazone	59-87-0	FEED	M3	RESULTS TO BE PUBLISHED.	
NTP 90 diet study	DIET90	FEED	M3 NA		N
NTP 91/92 diet study	DIET9192	FEED	R2		N
Polyurethane	9009-54-5	INHAL	R8 H1		
Prednisone	53-03-2	IP/IJ	R8 M4	RESULTS REPORTED IN JOURNAL ARTICLE	A
Procarbazine hydrochloride	366-70-1	IP/IJ	R8 M4	RESULTS REPORTED IN JOURNAL ARTICLE	A
Rotenone	83-79-4	IP/IJ	R2	RESULTS REPORTED IN NCTR REPORT	M
Sodium Fluoride	7681-49-4	WATER	R2	Supplemental study	P
Streptozotocin	18883-66-4	IP/IJ	R8 M4	RESULTS REPORTED IN JOURNAL ARTICLE	A
Styrene oxide	96-09-3	GAV	R2 M3	RESULTS REPORTED IN JOURNAL ARTICLE	K
p-Tolylurea	622-51-5	FEED	R2 M1		
Uracil mustard	66-75-1	IP/IJ	R8 M4	RESULTS REPORTED IN JOURNAL ARTICLE	A
Vinblastine	865-21-4	IP/IJ	R8 M4	RESULTS REPORTED IN JOURNAL ARTICLE	A

Ref No. 17

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

CHEMICAL NAME	PRIMARY CAS NUMBER	ROUTE	SPECIES	COMMENTS	FOOTNOTE REFERENCE
Vincristine	57-22-7	IP/IJ	R8 M4	RESULTS REPORTED IN JOURNAL ARTICLE	A
Wollastonite calcium silicates	13983-17-0	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 NTP Web Team (Telephone: 919-541-3419; Mail Drop K2-05, NIEHS, P. O. BOX 12233, Research Triangle Park, NC USA 27709; EMAIL: ntpwebrequest@niehs.nih.gov) .

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P Supplemental 2-Year Sodium Fluoride Male Rat Study (available on NTP website https://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	ROUTE	SPECIES
Acetaminophen (4-hydroxyacetanilide)	103-90-2	GAV	R2
Acetochlor	34256-82-1	GAV	HSD
Acetonitrile	75-05-8	INHAL	R2 M3
Acrylamide	79-06-1	GAV	HSD
Acrylamide	79-06-1	FEED	RC MV
Adeno-associated viral vector (hEPO)	AAVIRVECEPO	ID/CN	MW
Adenoviral vector (hGH)	ADNVIRVECHGH	ID/CN	R2
Adenoviral Vector (AdhAQP1)	ADNVIRVECAQP	ID/CN	R2
Aflatoxin B1 (TGMX)	1162-65-8	FEED	R2
Allyl bromide	106-95-6	SP	MI
Aloin	1415-73-2	WATER	RC
Ametryn	834-12-8	GAV	HSD
9-Aminoacridine hydrochloride	134-50-9	SP	R2 M3
9-Aminoacridine hydrochloride	134-50-9	FEED	R2 M3
2-(4-Aminophenyl)-6-methyl-7-benzothiazole sulfonic acid	130-17-6	FEED	R2 M3
3-Aminopyridine	462-08-8	GAV	RD M3
2-Aminopyridine	504-29-0	GAV	RD M3
4-Aminopyridine	504-24-5	GAV	RD M3
Comparison study of Aminopyridines/Troponin levels	AMINOPYRCOMP	GAV	RD M3
Androstenedione	63-05-8	GAV	R2 M3
Androstenedione	63-05-8	SP	R2 M3
Arsenic antioxidant mixture	ANTIOXCOMBO2	WATER	ME
Arsenic antioxidant mixture	ANTIOXCOMBO2	WATER	MN

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

CHEMICAL NAME	PRIMARY CAS NUMBER	ROUTE	SPECIES
Antioxidant model (TRAMP) - N-acetylcysteine	616-91-1	GAV	M1 MU
Antioxidant model (TRAMP) - Epigallocatechin gallate	989-51-5	GAV	M1 MU
Antioxidant model (TRAMP) - NAO (spinach extract)	NAOSPINEXTR	GAV	MU M1
Arsine	7784-42-1	INHAL	H1 NA
3'-Azido-3'-deoxythymidine and 2',3'-Dideoxycytidine	AZTDDCCOMB	GAV	M3
3'-Azido-3'-deoxythymidine and 2',3'-Dideoxyinosine (AIDS initiative)	AZTDDICOMB	GAV	M3
Azodicarbonamide	123-77-3	INHAL	R2 M3
AZT + Methadone HCl (AIDS)	AZTMETHCOMB	GAV	M3
AZT + Nitazoxanide (AIDS Initiative)	AZT+NITAZOX	GAV	M3
AZT + TMP/SMX (mixture) combination	AZTTMPSMX	GAV	M3
AZT + TMP/SMX (mixture) combination	AZTTMPSMX	GAV	M3
Benzidine dihydrochloride	531-85-1	WATER	R2
Benzonitrile	100-47-0	GAV	R2 M3
Benzyl acetate + glycine combination study	GLYCINEBENZA	FEED	R2
Benzyltrimethyl ammonium chloride	56-93-9	SP	R2 M3
2,2-bis(Bromomethyl)-1,3-propanediol	3296-90-0	GAV	R2 M3
Black Cohosh	84776-26-1	GAV	M3
Black Cohosh	84776-26-1	GAV	M3
Black Cohosh	84776-26-1		TK6HG2
Black Cohosh	84776-26-1	GAV	RE
Bromobenzene	108-86-1	INHAL	R2 M3
Bromobenzene	108-86-1	GAV	R2 M3
1,3-Butadiene	106-99-0	INHAL	R2
n-Butyl Glycidyl Ether	2426-08-6	INHAL	RD M3
tert-Butyl hydroperoxide	75-91-2	SP	R2 M3
tert-Butyl hydroperoxide	75-91-2	GAV	R2 M3
tert-Butylphenyl Diphenyl Phosphate	56803-37-3	GAV	HSD
Butyraldehyde	123-72-8	GAV	R2 M3
Caffeine	58-08-2	WATER	R2 M3
DL-Camphor	76-22-2	SP	R2 M3
Carbaryl	63-25-2	GAV	HSD
Carbon disulfide	75-15-0	INHAL	NA
Carbon disulfide	75-15-0	INHAL	R2
Carbon disulfide	75-15-0	INHAL	M1
Cardio Transmitter Gene Evaluation	CARDIOGENEVL	N/A	M2
Carisoprodol	78-44-4	GAV	R2 M3
Chloramphenicol sodium succinate	982-57-0	FEED	R2 M3
3-Chloro-4-(dichloromethyl)-5-hydroxy-2(5H)-furanone(MX)	77439-76-0	WATER	M3
bis(2-Chloroethoxy)methane	111-91-1	GAV	M3
bis(2-Chloroethoxy)methane	111-91-1	GAV	MZ M15 63
4-Chloro-2-nitroaniline	89-63-4	GAV	R2 M3
Chloroprene	126-99-8	INHAL	MD
Chloroprene	126-99-8	INHAL	MI ME ML
1-Chloro-2-propanol, technical	127-00-4	INHAL	R2 M3
o-Chloropyridine	109-09-1	SP	R2 M3
C.I. Phthalocyanine green	1328-53-6	FEED	R2 M3
C.I. Direct Blue 6	2602-46-2	WATER	R2
1,8-Cineol	470-82-6	MICRO	R2 M3
1,8-Cineol	470-82-6	GAV	R2 M3
Cinnamaldehyde	104-55-2	FEED	R2 M3
trans-Cinnamaldehyde	14371-10-9	GAV	R2
Citral	5392-40-5	GAV	R2 M3
Citral	5392-40-5	MICRO	R2 M3
Coumarin	91-64-5	GAV	HSD
p-Cresidine	120-71-8	FEED	M9 MA M8
Crotonaldehyde	4170-30-3	GAV	R2 M3
Crude MCHM	CRUDEMCHM	GAV	HSD
Cumene	98-82-8	INHAL	HSD M22
Cumene hydroperoxide	80-15-9	SP	R2 M3
Cyclanilide	113136-77-9	GAV	HSD
2-Cyclohexen-1-one	930-68-7	INHAL	R2 M3
Cyclohexene oxide	286-20-4	SP	R2 M3
Cyclohexene oxide	286-20-4	GAV	R2 M3
Cyclohexene oxide	286-20-4	GAV	R2 M3
Cyfluthrin	68359-37-5	GAV	HSD
Cyprodinil	121552-61-2	GAV	HSD
2,4-Decadienal	25152-84-5	GAV	R2 M3
1,2-Dibromo-2,4-dicyanobutane	35691-65-7	GAV	R2 M3
1,2-Dibromo-2,4-dicyanobutane	35691-65-7	SP	R2 M3

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

CHEMICAL NAME	PRIMARY CAS NUMBER	ROUTE	SPECIES
5,6-Dichloro-2-benzothiazolamine	24072-75-1	FEED	R2 M3
cis & trans 1,2-Dichloroethylene	540-59-0	MICRO	R2 M3
cis-1,2-Dichloroethylene	156-59-2	MICRO	R2 M3
trans-1,2-Dichloroethylene	156-60-5	MICRO	R2 M3
trans-1,2-Dichloroethylene	156-60-5	GAV	R2 M3
2,3-Dichloropropylene	78-88-6	INHAL	R2 M3
2',3'-Dideoxycytidine	7481-89-2	GAV	R2 M3
2',3'-Dideoxycytidine	7481-89-2	GAV	M3
2',3'-Dideoxycytidine	7481-89-2	GAV	MB M3
2',3'-Dideoxyinosine (AIDS Initiative)	69655-05-6		
Diet Evaluation Study	DIETEVAL	FEED	MY
Di(2-ethylhexyl) Phthalate	117-81-7	GAV	HSD
Di(2-ethylhexyl) Phthalate	117-81-7	IVOR	RH
1,2-Dihydro-2,2,4-trimethylquinoline (polymer)	26780-96-1	SP	R2 M3
Dimethylaminopropyl chloride, hydrochloride	5407-04-5	GAV	R2 M3
N,N-Dimethyl-p-toluidine	99-97-8	GAV	RD
N,N-Dimethyl-p-toluidine	99-97-8	GAV	HSD
Divinylbenzene	1321-74-0	INHAL	HSD
Ephedrine + caffeine combination	EPHEDCOMBO	GAV	M3
Ephedrine + caffeine combination	EPHEDCOMBO	GAV	MZ M15 63
Estragole	140-67-0	GAV	HSD
Ethoxyquin	91-53-2	FEED	R2 M3
2-Ethylhexyl Diphenyl Phosphate	1241-94-7	GAV	HSD
2-ethyltoluene	611-14-3	INHAL	M22 HSD
3-ethyltoluene	620-14-4	INHAL	M22 HSD
4-ethyltoluene	622-96-8	INHAL	R8 M22
Ethyl vinyl ketone	1629-58-9	INHAL	R2 M3
Fenofibrate	49562-28-9	GAV	HSD
Ferrocene	102-54-5	INHAL	R2 M3
Flusilazole	85509-19-9	GAV	HSD
Flutamide	13311-84-7	GAV	HSD
Formaldehyde	50-00-0	INHAL	M3
Formaldehyde	50-00-0	INHAL	M1 C3B6 B6129
Gallium oxide	12024-21-4	INHAL	R2 M3
Ginseng	50647-08-0	GAV	HSD
Glucosamine	3416-24-8	GAV	ZL ZO
Glucosamine Hydrochloride + Chondroitin Sulfate	GLUCOSCHONDN	GAV	ZO ZL
Glyoxal	107-22-2	WATER	R2 M3
Hexachlorobenzene	118-74-1	GAV	HSD
Indoxacarb	173584-44-6	GAV	HSD
Insertional mutagenesis (Radiation Levels)	INSERTMUTRAD	WB	MG
Insertional mutagenesis II (SIN vector)	INSERTMUT2	IV	MG
Insertional mutagenesis (LTR/SIN vectors)	INSERTMUT	IV	MG
Interferon AD + ddC (AIDS Initiative)	INTDDCCOMB	SC/IJ	M3
Ionic Liquid: 1-Butyl-3-methylimidazolium Chloride	79917-90-1	WATER	M3 HSD
Ionic Liquid: 1-Butyl-1-methylpyrrolidinium Chloride	479500-35-1	WATER	M3 HSD
Ionic Liquid: N-Butylpyridinium Chloride	1124-64-7	WATER	M3 HSD
Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride	65039-09-0	WATER	M3 HSD
Isodecyl Diphenyl Phosphate	29761-21-5	GAV	HSD
Isopropylated Phenol Phosphate	68937-41-7	GAV	HSD
Lead(2+) acetate	301-04-2	FEED	R2
Lead contaminated soil	PBCONTAMSOIL	FEED	R2
Lead ores	LEADORES	FEED	R2
Lead oxide	1317-36-8	FEED	R2
Lead sulfide	1314-87-0	FEED	R2
Lead sulfide	1314-87-0	FEED	R2
Lipopolysaccharides from Escherichia coli	ECOLI_LPS	IP/IJ	HSD
Magnetic fields (EMF)	ELECTROMAG	WB	MD MC
Melamine + Cyanuric Acid combination	MELCYANCOMB	GAV	RC
Melatonin	73-31-4	GAV	R2 R5
Melatonin	73-31-4	GAV	R5 R2
2-Mercaptobenzimidazole	583-39-1	INHAL	R2 M3
2-Mercaptobenzimidazole	583-39-1	INHAL	R2 M3
Metal working fluids (Syntilo 1023)	SYNTILO1023	INHAL	RE M3
Metal working fluids (Trim SC210)	TRIMSC210	INHAL	RD M3
Methapyrilene hydrochloride	135-23-9	FEED	R2 M3
Methdilazine	1982-37-2	GAV	R2 M3
6-Methoxy-2-benzothiazolamine	1747-60-0	FEED	R2 M3
2-Methoxy-4-nitroaniline	97-52-9	FEED	M3 HSD

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

CHEMICAL NAME	PRIMARY CAS NUMBER	ROUTE	SPECIES
4-(6-Methyl-2-benzothiazolyl)-benzenamine	92-36-4	FEED	R2 M3
Methyl coumarin	92-48-8	GAV	R2 M3
Methylene blue trihydrate	7220-79-3	GAV	R2 M3
Methylene blue trihydrate	7220-79-3	GAV	R2 M3
Methyleugenol	93-15-2	GAV	HSD
Methyleugenol (TGMX rat liver evaluation)	93-15-2	GAV	RD
3-Methyl-6-methoxy-2-amino-benzothiazolium chloride	EMTDP-76	FEED	R2 M3
3-Methyl-6-methoxy-2-amino-benzothiazolium chloride	EMTDP-76	GAV	R2
alpha-Methylstyrene	98-83-9	INHAL	R2 M3
Methyl trans-styryl ketone	1896-62-4	SP	R2 M3
Methyl trans-styryl ketone	1896-62-4	FEED	R2 M3
Methyl vinyl ketone	78-94-4	INHAL	R2 M3
Microcystin-LA (TGMX)	96180-79-9	IV	RE
Microcystin-LR (TGMX)	101043-37-2	IV	RE
Microcystin mixture (TGMX)	MICROCYSTNMX	IV	RE
Milk thistle extract	84604-20-6	GAV	HSD
Myristicin	607-91-0	GAV	RD M3
Nanoscale material (Quantum dots)	QUANTUMDOTS	SP	M0
Nanoscale material (Rutile titanium dioxide)	1317-80-2	SP	ME
Nanoscale Silver	7440-22-4	GAV	44
NCT/DERT standardization experiment (APAP & AMAP)	NCTSTANDARD	GAV	MZ
Nitrobenzene	98-95-3	SP	R2 M3
m-Nitrobenzoic acid	121-92-6	FEED	R2 M3
5-(4-Nitrophenyl)-2,4-pentadien-1-al (NPPD)	2608-48-2	SP	R2 M3
5-(4-Nitrophenyl)-2,4-pentadien-1-al (NPPD)	2608-48-2	FEED	R2 M3
N-Nitrosodiethanolamine	1116-54-7	WATER	R2 NA
N-Nitrosodimethylamine (TGMX rat liver evaluation)	62-75-9	WATER	RD
p-Nitrotoluene	99-99-0	GAV	R2 M3
NTP-2000 diet	DIET2000	FEED	R2
NTP-88 diet study (EGMBE)	DIET88+EGMBE	WATER	R2 M3
NTP-88 diet study (EGMEE)	DIET88+EGMEE	WATER	R2 M3
NTP-88 diet study (EGMME)	DIET88+EGMME	WATER	R2 M3
NTP-88 diet study (m-Nitrotoluene)	DIET88+MNITR	FEED	R2 M3
NTP-88 diet study (o-Nitrotoluene)	DIET88+ONITR	FEED	R2 M3
NTP-88 diet study (p-Nitrotoluene)	DIET88+PNITR	FEED	R2 M3
Oxymetholone	434-07-1	FEED	R2 M3
PCN 66/67 comparison study	PCNCOMPARISN	GAV	R8 R2 HSD
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]	32534-81-9	GAV	RE
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]	32534-81-9	GAV	RE
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]	32534-81-9	GAV	HSD
3,3,4,4,5-Pentachlorobiphenyl (PCB 126)	57465-28-8	GAV	RE
Perfluorooctanoic acid (PFOA)	335-67-1	GAV	HSD
Peroxisome project (Dibutyl phthalate)	84-74-2	FEED	M3 H1 HSD
Peroxisome project (2,4-Dichlorophenoxyacetic acid)	94-75-7	FEED	M3 H1 HSD
Peroxisome project (Gemfibrozil)	25812-30-0	FEED	M3 H1 HSD
Phenobarbital	50-06-6	GAV	RE
Phosphine	7803-51-2	INHAL	R2 M3
Pregnancy Rate Comparison Study	PREGRATECOMP	N/A	HSDI HSDD
Prevention 1 (Melatonin)	73-31-4	GAV	MA
Prevention 2 (Melatonin)	73-31-4	FEED	MA
Prevention 2 (Silymarin)	65666-07-1	FEED	MA
Prevention 2 (Silymarin + melatonin)	SILYMARN+MEL	FEED	MA
Prevention 3 (Melatonin)	73-31-4	FEED	MA
Prevention 6 (low isoflavone soy protein powder)	ISOFLAVSOYPT	FEED	MA
Prevention 4 (Curcumin)	458-37-7	FEED	MA
Prevention 7 (feed controls)	PREVENTION7	FEED	MA
Prevention 1 (Flaxseed oil)	8001-26-1	GAV	MA
Prevention 1 (Flaxseed oil + melatonin)	FLAXSEED+MEL	GAV	MA
Prevention 4 (Indole-3-carbinol)	700-06-1	FEED	MA
Prevention 6 (isoflavone concentrate)	ISOFLAVCONCN	FEED	MA
Prevention 4 (Melatonin)	73-31-4	FEED	MA
Prevention 5 (Melatonin)	73-31-4	FEED	MA

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

CHEMICAL NAME	PRIMARY CAS NUMBER	ROUTE	SPECIES
Prevention 4 (Melatonin + curcumin)	MEL+CURCUMIN	FEED	MA
Prevention 4 (Melatonin + indole-3-carbinol)	MEL+INDOLCAR	FEED	MA
Prevention 10 (Soy isoflavone concentrate)	PREVENTION10	FEED	MA
Propantheline bromide	50-34-0	FEED	R2 M3
Pulegone	89-82-7	GAV	HSD
Pyridine	110-86-1	GAV	M3
2,5-Pyridinedicarboxylic Acid, Dipropyl Ester	136-45-8	GAV	HSD
QT drugs (bepridil hydrochloride)	74764-40-2	CAPS	O3
QT drugs (diltiazem hydrochloride)	33286-22-5	CAPS	O3
QT drugs (Loratadine)	79794-75-5	CAPS	O3
QT drugs (Lovastatin)	75330-75-5	CAPS	O3
QT drugs (sotalol hydrochloride)	959-24-0	CAPS	O3
QT drugs (terfenadine)	50679-08-8	CAPS	O3
Rat feed study (TGMX rat liver evaluation)	TGMXRALVFEED	FEED	RD
Reserpine	50-55-5	FEED	MA M9 M8
Retinoid project 2 (4-(Hydroxyphenyl)retinamide)	65646-68-6	FEED	MA
Retinoid project 1	RETINOID1	FEED	MA
Retinoid project 3 (Retinol acetate)	127-47-9	FEED	MA
Retinoid project 4 (4-(Hydroxyphenyl)retinamide)	65646-68-6	FEED	MA
Retinoid project 5 (4-(Hydroxyphenyl)retinamide)	65646-68-6	FEED	MA
Retinoid project 6 (Arotinoid)	125533-88-2	FEED	MA
Retinoid project 3 (Arotinoid)	125533-88-2	FEED	MA
Retinoid project 5 (Arotinoid)	125533-88-2	FEED	MA
Retinoid project 6 (4-HPR)	65646-68-6	FEED	MA
Retroviral vectors	RETROVIRVECT	IP/IJ	M3
Retroviral vectors	RETROVIRVECT	IP/IJ	R2
Retroviral vectors	RETROVIRVECT	WB	R2 M3 MD
Retroviral vectors	RETROVIRVECT	IV	MD M3
Scopolamine hydrobromide trihydrate	6533-68-2	WATER	R2 M3
Serotype 5 Adeno-associated Viral Vector (rAAV5SCTLA4:Ig)	RAV5SCTLA4IG	ID/CN	MW
Serotype 2 Adeno-associated Viral Vector rAAV2rapahEpo	AAVIRAAVHEPO	ID/CN	MW
Silica, crystalline - quartz	14808-60-7	INHAL	R2
Silica, crystalline - quartz	14808-60-7	INHAL	R2
Silica, crystalline - quartz	14808-60-7	INHAL	R2
Simazine	122-34-9	GAV	HSD
Styrene	100-42-5	INHAL	R2 M3
Tebufenpyrad	119168-77-3	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	GAV	RE
2,2',4,4'-Tetrabromodiphenyl Ether	5436-43-1	GAV	MM MK
2,2',4,4'-Tetrabromodiphenyl Ether	5436-43-1	GAV	RE
3,3',4,4'-Tetrachloroazobenzene	14047-09-7	GAV	R8
1,1,2,2-Tetrachloroethane	79-34-5	GAV	R2 M3
Tetradecanoyl phorbol acetate (TPA)	16561-29-8	SP	ME
Tetrahydrofuran	109-99-9	GAV	R2 M3
4,4-Thiobis(6-tert-butyl-m-cresol)	96-69-5	FEED	R2 M3
Thiophene	110-02-1	INHAL	R2 M3
alpha/beta Thujone mixture	76231-76-0	GAV	HSD
D-alpha-Tocopheryl acetate	58-95-7	GAV	R2
p-Toluidine	106-49-0	GAV	RD
Toxicogenomics study of allylbenzene & propenylbenzene class flavor constituents (TGMX)	TGMXFLAVCLAS	GAV	RD
Transgenic LECM (1-Chloro-2-propanol, technical)	127-00-4	WATER	MD
Transgenic LECM (1-Chloro-2-propanol, technical)	127-00-4	SP	ME
Transgenic LECM (Coconut oil acid diethanolamine condensate)	68603-42-9	SP	ME
Transgenic LECM (Coconut oil acid diethanolamine condensate)	68603-42-9	SP	MD
Transgenic LECM (Furfuryl alcohol)	98-00-0	SP	ME
Transgenic LECM (Lauric acid diethanolamine condensate)	120-40-1	SP	MD
Transgenic LECM (Lauric acid diethanolamine condensate)	120-40-1	SP	ME

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

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Transgenic Model Evaluation (2,3,7,8-Tetrachlorodibenzodioxin)	1746-01-6	SP	ME
Transgenic model evaluation (WY-14643)	50892-23-4	SP	MN
Transgenic model evaluation (WY-14643)	50892-23-4	FEED	MN
Transgenic LECM (diethanolamine)	111-42-2	SP	MN
Triamterene	396-01-0	FEED	R2 M3
Trichlorfon	52-68-6	FEED	R2 M3
Trichloroethylene	79-01-6	FEED	R2
Trichloroethylene	79-01-6	GAV	R2
1,2,3-Trichloropropane	96-18-4	GAV	R2 M3
Triclosan	3380-34-5	GAV	HSD
Triclosan	3380-34-5	DERMAL	M3
Tricresyl Phosphate	1330-78-5	GAV	HSD
Tricresyl Phosphate	1330-78-5	GAV	R2 M3
Triethanolamine	102-71-6	WATER	R2 M3
Triethanolamine	102-71-6	SP	R2 M3
Triethanolamine	102-71-6	INHAL	R2 M3
Trimellitic anhydride	552-30-7	FEED	R2 M3
Trimellitic anhydride	552-30-7	GAV	R2 M3
Tripelennamine hydrochloride	154-69-8	FEED	R2 M3
Triphenyl Phosphate	115-86-6	GAV	HSD
Tris(Chloropropyl) Phosphate (TCPP)	13674-84-5	GAV	HSD
Vincamine	1617-90-9	GAV	M3 HSD
Vinclozolin	50471-44-8	GAV	HSD
Vinylidene fluoride	75-38-7	INHAL	R2 M3
Water disinfection byproducts (Bromodichloroacetic Acid)	71133-14-7	WATER	R2 M3
Water disinfection byproducts (Bromodichloromethane)	75-27-4	WATER	R2 M3
Water disinfection byproducts (Bromodichloromethane)	75-27-4	GAV	R2 M3
Water disinfection byproducts (Dibromoacetic acid)	631-64-1	WATER	R2 M3
Water disinfection byproducts (Dichloroacetic acid)	79-43-6	WATER	R2 M3
Welding fumes	STEELWELDFUM		
Wyeth 14,643 (WY)	50892-23-4	GAV	HSD

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	INTDDCCOMB	Interferon AD + ddC (AIDS Initiative)	53	*
	INTERFERONAD	Interferon AD (AIDS Initiative)	45	16
@	INTERFERONAD	Interferon AD + 3'-azido-3'-deoxythymidine (AIDS Initiative) (Primary CASRN is INTAZTCOMB)	45	16
@	INTERFERONAD	Interferon AD + ddC (AIDS Initiative) (Primary CASRN is INTDDCCOMB)	53	*
	ISOFLAVCONCN	Prevention 6 (isoflavone concentrate)	54	*
	ISOFLAVSOYPT	Prevention 6 (low isoflavone soy protein powder)	54	*
	LA2007	Libby Amphibole 2007	33	5
	LA2007	Libby Amphibole 2007	33	5
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	L-MWNT-1020	1020 Long Multiwalled Carbon Nanotube	38	16
	L-MWNT-1020	1020 Long Multiwalled Carbon Nanotube	34	7
@	LTRVECTOR	Insertional Mutagenesis - Definitive Vector Study (Primary CASRN is INSERTMUT3)	50	17
	MEL+CURCUMIN	Prevention 4 (Melatonin + curcumin)	55	*
	MEL+INDOLCAR	Prevention 4 (Melatonin + indole-3-carbinol)	55	*
	MELCYANCOMB	Melamine + Cyanuric Acid combination	34	6
	MELCYANCOMB	Melamine + Cyanuric Acid combination	53	*
	MELCYANCOMB	Melamine + Cyanuric Acid combination	34	6
	MELCYANCOMB	Melamine + Cyanuric Acid combination	34	6
	MICROBIOME	Microbiome	33	5
	MICROCYSTNMX	Microcystin mixture (TGMX)	54	*
	MIXEDXYLENES	MIXED XYLENES	33	5
@	MONOTERPENES	alpha-Pinene (Primary CASRN is 80-56-8)	36	16
@	MONOTERPENES	alpha-Pinene (Primary CASRN is 80-56-8)	33	5
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	MOUSEPHENO1	Aging Cohort Study: 12951/SvlmJ mouse	35	13
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	MOUSEPHENO8	Aging Cohort Study: PWK/PhJ mouse	35	13
	MOUSEPHENO9	Aging Cohort Study: WSB/EIJ mouse	35	13
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@	NAOSPINEXTR	Arsenic antioxidant mixture (Primary CASRN is ANTIOXCOMBO2)	51	*
	NAOSPINEXTR	Antioxidant model (TRAMP) - NAO (spinach extract)	52	*
	NATTOLUMBROKINASE	Nattokinase and Lumbrokinase	34	6
	NCTSTANDARD	NCT/DERT standardization experiment (APAP & AMAP)	54	*
@	NTPMOCKVEC	Insertional Mutagenesis - Definitive Vector Study (Primary CASRN is INSERTMUT3)	50	17
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	PBCONTAMSOIL	Lead contaminated soil	53	*
	PCNCOMPARISN	PCN 66/67 comparison study	54	*
	PESTFERTMIX2	Pesticide/fertilizer contamination--mixture 2	39	16
	PESTFERTMIX3	Pesticide/fertilizer contamination--mixture 3	39	16
	PREGRATECOMP	Pregnancy Rate Comparison Study	54	*
	PREVENTION10	Prevention 10 (Soy isoflavone concentrate)	55	*
	PREVENTION7	Prevention 7 (feed controls)	54	*
@	PSINVECTOR	Insertional Mutagenesis - Definitive Vector Study (Primary CASRN is INSERTMUT3)	50	17
	QUANTUMDOTS	Nanoscale material (Quantum dots)	54	*
	RAV5SCTLA4IG	Serotype 5 Adeno-associated Viral Vector (rAAV5SCTLA4:Ig)	55	*
	RETINOID1	Retinoid project 1	55	*
	RETROVIRVECT	Retroviral vectors	55	*
	RETROVIRVECT	Retroviral vectors	55	*
	RETROVIRVECT	Retroviral vectors	55	*
	RETROVIRVECT	Retroviral vectors	55	*
	SANTRIMER2	Styrene-acrylonitrile trimer	47	16
	SILYMARN+MEL	Prevention 2 (Silymarin + melatonin)	54	*
@	SINVECTOR	Insertional Mutagenesis - Definitive Vector Study (Primary CASRN is INSERTMUT3)	50	17
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