

Priority List for the Development of Proposition 65 Safe Harbor Levels

No Significant Risk Levels (NSRLs) for Carcinogens and Maximum Allowable Dose Levels (MADLs) for Chemicals Causing Reproductive Toxicity

Office of Environmental Health Hazard Assessment California Environmental Protection Agency (September 2012 Update)

The Office of Environmental Health Hazard Assessment (OEHHA) has developed the priority list below for the development of safe harbor levels for chemicals listed under Proposition 65 for which levels have not been adopted in regulation (in Title 27, California Code of Regulation, sections 25705, 25709, and 25805). [Follow this link for safe harbor levels currently in regulation.](#)

OEHHA assigns priority levels based on the availability and quality of scientific data for dose-response assessments, potential for exposure, resources available to perform the assessment, need expressed by interested parties, and input from the public and the Attorney General's office. Also, priority is generally given to chemicals newly added to the Proposition 65 list. OEHHA anticipates proposing safe harbor levels – No Significant Risk Levels (NSRLs) for carcinogens and Maximum Allowable Dose Levels (MADLs) for reproductive toxicants – for many of the chemicals in the first priority group within the next two years, and for second priority chemicals within the next two to five years. It is unlikely that NSRLs or MADLs for third or fourth priority chemicals will be released within the next five years.

Priorities change as assessments are completed or the basis for the priority changes. Any interested party may recommend changes in priorities to OEHHA, preferably with supporting rationale for the change.

When an NSRL or MADL is proposed for adoption into regulation, a Notice of Proposed Rulemaking will be posted on the OEHHA web site at <http://www.oehha.ca.gov/prop65/law/index.html> under the heading, "Proposed Regulations."

First Priority for NSRL Development

Androstenedione	Diuron	MON 4660 (dichloroacetyl-1-oxa-4-azaspiro(4,5)-decane)
Benzophenone	Epoxiconazole	
Bromate	Furan	
Bromochloroacetic acid	Hexachlorobutadiene	MON 13900 (furilazole)
Bromoethane	2,4-Hexadienal (89% trans, trans isomer; 11% cis, trans isomer)	3-Monochloropropane-1,2-diol
Carbaryl		o-Nitrotoluene
Cocamide diethanolamine	Isopyrazam	Ochratoxin A
Cumene	Kresoxim-methyl	Oryzalin
Cyclopenta[cd]pyrene	2-Methylimidazole	Polychlorinated biphenyls
Dibromoacetic acid	Methyl isobutyl ketone	Propylene glycol mono-t-butyl ether
Dibromoacetonitrile	N-Methylolacrylamide	Pymetrozine
1,3-Dichloro-2-propanol		Pyridine
Diclofop-methyl		
Diethanolamine		

Resmethrin

3,3',4,4'
Tetrachloroazobenzene

1,2,3-Trichloropropane

First Priority for MADL Development

Amitraz	N, N-Dimethylacetamide	p,p'-Oxybis(benzenesulfonyl hydrazide)
1-Bromopropane	2-Ethylhexanoic acid	Phenyl glycidyl ether
Bromoxynil octanoate	Ethyl-tert-butyl ether (EBTE)	Phenylphosphine
1,3-Butadiene	Hexafluoroacetone	Polychlorinated biphenyls
Butyl benzyl phthalate (BBP)	Metham sodium	Sulfur dioxide
N-Butyl glycidyl ether	Methanol	Tert-amyl methyl ether (TAME)
Carbaryl	Methyl n-butyl ketone	1,3,5-Triglycidyl-s-triazinetriene
Chloroform	Methyl isocyanate	Vinclozolin
2-Chloropropionic acid	Methyl isopropyl ketone	Vinyl cyclohexene dioxide
Chlorsulfuron	α -Methyl styrene	4-Vinylcyclohexene
Cycloate	Myclobutanil	
Dichloroacetic acid	Nitrobenzene	
Diglycidyl ether	Nitrous oxide	

Second Priority for NSRL Development

Alachlor	D&C Orange No. 17	2-Nitropropane
p-Aminoazobenzene	Diaminotoluene (mixed)	o-Phenylphenol
Aniline hydrochloride	Dichloroacetic acid	Progesterone
Anthraquinone	3,3'-Dichlorobenzidine dihydrochloride	Propoxur
Antimony oxide	1,4-Dichloro-2-butene	Propylene oxide
Benzotrithloride	1,3-Dichloropropene	Quinoline and its strong acid salts
2,2-Bis(bromomethyl)-1,3-propanediol	Diesel engine exhaust	Spirodiclofen
Catechol	Diethyl sulfate	Tetrafluoroethylene
Ceramic fibers (airborne particles of respirable size)	Dimethyl sulfate	S,S,S-Tributyl phosphorotrithioate
1-Chloro-4-nitrobenzene	1,1-Dimethylhydrazine (UDMH)	Tris(2-chloroethyl)phosphate
Chloroprene	Indium phosphide	Vanadium pentoxide (orthorhombic crystalline form)
5-Chloro-o-toluidine and its strong acid salts	Isoprene	Vinyl bromide
C.I. Acid Red 114	Methyleugenol	4-Vinylcyclohexene
C.I. Direct Blue 15	Methyl iodide	
Cobalt sulfate heptahydrate	1-Naphthylamine	
	Nitrapyrin	
	Nitrobenzene	

Second Priority for MADL Development

Arsenic (inorganic oxides)	Dichlorophene	Mercury and mercury compounds
Bromacil lithium salt	Diclofop methyl	Methazole
Bromoxynil	Ethylene thiourea	Methyl mercury
2-Bromopropane	Fenoxaprop ethyl	Metiram
Carbon disulfide	Fluazifop butyl	Nabam
Cocaine	Fluvalinate	

Nicotine	Resmethrin	Tributyltin methacrylate
Nitrapyrin	Sodium fluoroacetate	Triforine
Oxadiazon	Terbacil	Triphenyl tin hydroxide
Oxydemeton methyl	2,3,7,8-Tetrachlorodibenzo-para-	
Oxythioquinox (Chinomethionat)	dioxin (TCDD)	
Propargite	Triadimefon	

Third Priority for NSRL Development

Acetochlor	Diazoaminobenzene	Gallium arsenide
Acifluorfen sodium	Dibenz[a,h]acridine	Ganciclovir
Aflatoxins	Dibenz[a,i]acridine	Gasoline engine exhaust (condensates/extracts)
1-Amino-2,4- dibromoanthraquinone	Dibenzo[a,e]pyrene	Gemfibrozil
Areca nut	Dibenzo[a,l]pyrene	Glass wool fibers (inhalable and biopersistent)
Azacitidine	2,3-Dibromo-1-propanol	Glycidaldehyde
Benthiavalicarb-isopropyl	3,3'-Dichloro-4,4'- diaminodiphenyl ether	Griseofulvin
Benzidine-based dyes	Dienestrol	Hexamethylphosphoramide
Benzo[k]fluoranthene	Diepoxybutane	1-Hydroxyanthraquinone
Betel quid without tobacco	1,2-Diethylhydrazine	Indeno[1,2,3-cd]pyrene
N,N-Bis(2-chloroethyl)-2- naphthylamine	Diisopropyl sulfate	Iprodione
Bischloroethyl nitrosourea (BCNU) (Carmustine)	3,3'-Dimethoxybenzidine-based dyes metabolized to 3,3'- dimethoxybenzidine	Iprovalicarb
Bis(2-chloro-1-methylethyl)ether, technical grade	3,3'-Dimethylbenzidine-based dyes metabolized to 3,3'- dimethylbenzidine	Isoxaflutole
1,4-Butanediol dimethanesulfonate (Busulfan)	1,6-Dinitropyrene	Lactofen
Cacodylic acid	1,8-Dinitropyrene	Malonaldehyde, sodium salt
Carbon black (airborne, unbound particles of respirable size)	2,6-Dinitrotoluene	Mancozeb
Chloramphenicol	2,4-/2,6-Dinitrotoluene mixture	Maneb
Chlordimeform	Diphenylhydantoin (Phenytoin)	Medroxyprogesterone acetate
1-(2-Chloroethyl)-3-cyclohexyl-1- nitrosourea (CCNU)	Diphenylhydantoin (Phenytoin), sodium salt	Mepanipyrin
1-(2-Chloroethyl)-3-(4-methyl- cyclohexyl)-1-nitrosourea	Di-n-propyl isocinchomeronate (MGK Repellent 326)	Merphalan
Chlorotrianisene	Doxorubicin hydrochloride (adriamycin)	Mestranol
Ciclosporin (Cyclosporin A; Cyclosporine)	Estragole	Metam potassium
Cidofovir	Estrogens, steroidal	Metham sodium
C.I. Solvent Yellow 14	Estrone	Methylmercury compounds
Cisplatin	Estropipate	Metiram
Clofibrate	Ethinylestradiol	Metronidazole
Cobalt metal powder	Ethoprop	Mustard Gas
Cobalt [II] oxide	Ethyl acrylate	Nafenopin
Cobalt sulfate	Fenoxycarb	Nickel and nickel compounds
Daunomycin	Fumonisin B1	Nickel carbonyl
N,N'-Diacetylbenzidine	Furazolidone	Niridazole
	Fusarin C	o-Nitroanisole
		4-Nitrobiphenyl
		6-Nitrochrysene
		2-Nitrofluorene
		1-Nitropyrene
		4-Nitropyrene

Nitrogen mustard (Mechlorethamine)	Pronamide	Thorium dioxide
Nitrogen mustard hydrochloride (Mechlorethamine HCl)	Propachlor	Titanium dioxide (airborne, unbound particles of respirable size)
N-Nitrosomethylvinylamine	Propargite	Treosulfan
N-Nitrososarcosine	Radionuclides	Trichlormethine (Trimustine hydrochloride)
Norethisterone (Norethindrone)	Selenium sulfide	2,4,5-Trimethylaniline and its strong acid salts
Oxadiazon	Silica, crystalline (airborne particles of respirable size)	Triphenyltin hydroxide
Oxazepam	Spirolactone	Trypan blue (commercial grade)
Oxythioquinox (Chinomethionat)	Stanozolol	Uracil mustard
Oxymetholone	Strong inorganic acid mists containing sulfuric acid	Vinclozolin
Panfuran S	Sulfasalazine (salicylazosulfapyridine)	4-Vinyl-1-cyclohexene diepoxide
PhiP	Tamoxifen and its salts	Vinyl fluoride
Pirimicarb	Terrazole	Wood dust
Polychlorinated dibenzo-p- dioxins	Testosterone and its esters	Zileuton
Polychlorinated dibenzofurans	p-a,a,a-Tetrachlorotoluene	
Primidone	Thiodicarb	
Procymidone	Thiouracil	

Third Priority for MADL Development:

Acetazolamide	Benzodiazepines	Colchicine
Acetohydroxamic acid	Bischloroethyl nitrosoarea (BCNU) (Carmustine)	Conjugated estrogens
Actinomycin D	Butabarbital sodium	Cyanazine
All-trans retinoic acid	1,4-Butanediol	Cycloheximide
Alprazolam	dimethanesulfonate (Busulfan)	Cyclophosphamide (anhydrous)
Altretamine	Carbamazepine	Cyclophosphamide (hydrated)
Amantadine hydrochloride	Carbon monoxide	Cyhexatin
Amikacin sulfate	Carboplatin	Cytarabine
Aminoglutethimide	Chenodiol	Dacarbazine
Aminoglycosides	Chlorambucil	Danazol
Aminopterin	Chlorcyclizine hydrochloride	Daunorubicin hydrochloride
Amiodarone hydrochloride	Chlordecone (Kepone)	o,p'-DDT
Amoxapine	Chlordiazepoxide	p,p'-DDT
Anabolic steroids	Chlordiazepoxide hydrochloride	Demeclocycline hydrochloride (internal use)
Angiotensin converting enzyme (ACE) inhibitors	1-(2-Chloroethyl)-3-cyclohexyl-1- nitrosoarea (CCNU)	Diazepam
Anisindione	(Lomustine)	Diazoxide
Aspirin	Cidofovir	Dichlophenamide
Atenolol	Cladribine	1,1-Dichloro-2,2-bis(p- chlorophenyl)ethylene (DDE)
Auranofin	Clarithromycin	Dicumarol
Azathioprine	Clobetasol propionate	Diethylstilbestrol (DES)
Barbiturates	Clomiphene citrate	Diflunisal
Beclomethasone dipropionate	Clorazepate dipotassium	Dihydroergotamine mesylate
Benomyl	Codeine phosphate	Diltiazem hydrochloride

o-Dinitrobenzene	Histrelin acetate	estradiol
p-Dinitrobenzene	Hydroxyurea	Norethisterone
2,4-Dinitrotoluene	Idarubicin hydrochloride	(Norethindrone)/Mestranol
2,6-Dinitrotoluene	Ifosfamide	Norgestrel
Dinitrotoluene (technical grade)	Iodine-131	Oxazepam
Dinocap	Isotretinoin	Oxymetholone
Dinoseb	Leuprolide acetate	Oxytetracycline (internal use)
Diphenylhydantoin (Phenytoin)	Levodopa	Oxytetracycline hydrochloride
Doxorubicin hydrochloride (adriamycin)	Levonorgestrel implants	(internal use)
Doxycycline (internal use)	Lithium carbonate	Paclitaxel
Doxycycline calcium (internal use)	Lithium citrate	Paramethadione
Doxycycline hyclate (internal use)	Lorazepam	Penicillamine
Doxycycline monohydrate (internal use)	Lovastatin	Pentobarbital sodium
Endrin	Mebendazole	Pentostatin
Environmental tobacco smoke (ETS)	Medroxyprogesterone acetate	Phenacemide
Epichlorohydrin	Megestrol acetate	Phenprocoumon
Ergotamine tartrate	Melphalan	Pimozide
Estropipate	Menotropins	Pipobroman
Ethionamide	Meprobamate	Plicamycin
Ethyl alcohol in alcoholic beverages	Mercaptopurine	Polybrominated biphenyls
Ethylene dibromide	Methacycline hydrochloride	Polychlorinated biphenyls
Etodolac	Methimazole	Pravastatin sodium
Etoposide	Methotrexate	Prednisolone sodium phosphate
Etretinate	Methotrexate sodium	Procarbazine hydrochloride
Filgrastim	Methyl chloride	Propylthiouracil
Flunisolide	Methyltestosterone	Pyrimethamine
Fluorouracil	Midazolam hydrochloride	Quazepam
Fluoxymesterone	Minocycline hydrochloride (internal use)	Retinol/retinyl esters, when in daily dosages in excess of 10,000 IU, or 3,000 retinol equivalents.
Flurazepam hydrochloride	Misoprostol	Ribavirin
Flurbiprofen	Mitoxantrone hydrochloride	Rifampin
Flutamide	Molinate	Secobarbital sodium
Fluticasone propionate	Nafarelin acetate	Sermorelin acetate
Ganciclovir	Neomycin sulfate (internal use)	Streptomycin sulfate
Ganciclovir sodium	Netilmicin sulfate	Streptozocin (streptozotocin)
Gemfibrozil	Nickel carbonyl	Sulfasalazine
Goserelin acetate	Nifedipine	(salicylazosulfapyridine)
Halazepam	Nimodipine	Sulindac
Halobetasol propionate	Nitrofurantoin	Tamoxifen citrate
Haloperidol	Nitrogen mustard (Mechlorethamine)	Temazepam
Halothane	Nitrogen mustard hydrochloride (Mechlorethamine hydrochloride)	Teniposide
Heptachlor	Norethisterone (Norethindrone)	Testosterone cypionate
Hexachlorobenzene	Norethisterone acetate (Norethindrone acetate)	Testosterone enanthate
Hexamethylphosphoramide	Norethisterone (Norethindrone)/Ethinyl	Tetracycline (internal use)
		Tetracyclines (internal use)
		Tetracycline hydrochloride (internal use)

Thalidomide
Thioguanine
Tobacco smoke (primary)
Tobramycin sulfate
Triazolam
Trientine hydrochloride

Trilostane
Trimethadione
Trimetrexate glucuronate
Uracil mustard
Urethane
Urofollitropin

Valproate (Valproic acid)
Vinblastine sulfate
Vincristine sulfate
Warfarin
Zileuton

Fourth Priority for NSRL Development:

Alcoholic beverages
2-Aminofluorene
4-Amino-2-nitrophenol
Amsacrine
Analgesic mixtures containing phenacetin
Aristolochic acid
Betel quid with tobacco
Bitumens, extracts of steam-refined
Bracken fern
Caffeic acid
Carbon-black extracts
Certain combined chemotherapy for lymphomas
Citrus Red No. 2
Conjugated estrogens
Creosotes
Cycasin
Cytembena
D&C Red No. 8
D&C Red No. 19
3,7-Dinitrofluoranthene
3,9-Dinitrofluoranthene
Erionite

Estrogen-progestogen (combined) used as menopausal therapy
Ethanol in alcoholic beverages
Ethyl methanesulfonate
Etoposide
Etoposide in combination with cisplatin and bleomycin
Herbal remedies containing plant species of the genus *Aristolochia*
Iron dextran complex
Leather dust
Lynestrenol
Marijuana Smoke
8-Methoxypsoralen with ultraviolet A therapy
5-Methoxypsoralen with ultraviolet A therapy
Methylazoxymethanol
Methylazoxymethanol acetate
MOPP (vincristine-prednisone-nitrogen mustard-procarbazine mixture)
Nitrogen mustard N-oxide
Nitrogen mustard N-oxide hydrochloride

3-(N-Nitrosomethylamino)-propionitrile
Norethynodrel
Oil Orange SS
Oral contraceptives, combined
Oral contraceptives, sequential
Palygorskite fibers
Phenolphthalein
Residual (heavy) fuel oils
Riddelliine
Salted fish, Chinese-style
Shale-oils
Soots, tars, and mineral oils
Talc containing asbestiform fibers
Tobacco, oral use of smokeless products
Tobacco smoke
Toxins derived from *Fusarium moniliforme* (*Fusarium verticillioides*)
Unleaded gasoline (wholly vaporized)
Zalcitabine
Zidovudine (AZT)