

**Office of Environmental Health Hazard Assessment**  
**Proposition 65 No Significant Risk Levels (NSRLs) for Carcinogens and**  
**Maximum Allowable Dose Levels (MADLs) for Chemicals Causing Reproductive Toxicity**

Below is a list of NSRLs and MADLs that provide "safe harbor" for businesses subject to the requirements of Proposition 65. These NSRLs and MADLs are established in regulation in Title 27, Cal. Code of Regulations, Sections 25705, 25709 and 25805. These safe harbor levels do not preclude the use of alternative levels that can be demonstrated by their users as being scientifically valid. A hyperlink is provided for those NSRLs or MADLs for which the documentation of their derivation is electronically available.

Chemical	NSRL (µg/day) <sup>a</sup>	MADL (µg/day) <sup>a</sup>
A-alpha-C (2-Amino-9H-pyrido[2,3-b]indole)	<a href="#">2</a>	
Acetaldehyde	90 (inhalation)	
Acetamide	<a href="#">10</a>	
2-Acetylaminofluorene	<a href="#">0.2</a>	
Acrylamide	0.2	<a href="#">140</a>
Acrylonitrile	0.7	
Actinomycin D	<a href="#">0.00008</a>	
AF-2;[2-(2-furyl)-3-(5-nitro-2-furyl)]acrylamide	<a href="#">3</a>	
Aldrin	0.04	
2-Aminoanthraquinone	<a href="#">20</a>	
o-Aminoazotoluene	<a href="#">0.2</a>	
4-Aminobiphenyl (4-aminodiphenyl)	<a href="#">0.03</a>	
3-Amino-9-ethylcarbazole hydrochloride	<a href="#">9</a>	
1-Amino-2-methylantraquinone	<a href="#">5</a>	
2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole	<a href="#">0.04</a>	
Amitrole	<a href="#">0.7</a>	
Aniline	100	
o-Anisidine	<a href="#">5</a>	
o-Anisidine hydrochloride	<a href="#">7</a>	
Aramite	<a href="#">20</a>	
Arsenic (inorganic arsenic compounds)	0.06 (inhalation) 10 (except inhalation)	
Asbestos	100 fibers/day (inhalation)	
Auramine	<a href="#">0.8</a>	
Avermectin B1 (Abamectin)		<a href="#">4.4</a>
Azaserine	<a href="#">0.06</a>	
Azathioprine	<a href="#">0.4</a>	
Azobenzene	6	
Benz[a]anthracene	<a href="#">0.033 (oral)</a>	
Benzene	<a href="#">6.4 (oral)</a> <a href="#">13 (inhalation)</a>	<a href="#">24 (oral)</a> <a href="#">49 (inhalation)</a>
Benzidine [and its salts]	0.001	
Benzo[b]fluoranthene	<a href="#">0.096 (oral)</a>	
Benzo[j]fluoranthene	<a href="#">0.11 (oral)</a>	
Benzofuran	<a href="#">1.1</a>	

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Benzo[a]pyrene	0.06	
Benzyl chloride	4	
Benzyl violet 4B	<u>30</u>	
Beryllium	0.1	
Beryllium oxide	0.1	
Beryllium sulfate	0.0002	
Bis(2-chloroethyl)ether	0.3	
Bis(chloromethyl)ether	0.02	
Bromodichloromethane	5	
Bromoethane	<u>96</u>	
Bromoform	<u>64</u>	
1,3-Butadiene	0.4	
Butylated hydroxyanisole	4000	
Butyl benzyl phthalate <sup>b</sup>		<u>1200 (oral)</u>
beta-Butyrolactone	<u>0.7</u>	
Cadmium	0.05 (inhalation)	<u>4.1 (oral)</u>
Captafol	<u>5</u>	
Captan	<u>300</u>	
Carbazole	<u>4.1</u>	
Carbon tetrachloride	5	
N-Carboxymethyl-N-nitrosourea	<u>0.70</u>	
Chlorambucil	<u>0.002</u>	
Chlordane	0.5	
Chlordecone (Kepone)	<u>0.04</u>	
Chlorendic acid	<u>8</u>	
Chlorinated paraffins (Average chain length, C12; approximately 60 percent chlorine by weight)	<u>8</u>	
p-Chloroaniline	<u>1.5</u>	
p-Chloroaniline hydrochloride	<u>1.9</u>	
Chloroethane (Ethyl chloride)	<u>150</u>	
Chloroform	20 (oral) 40 (inhalation)	
Chloromethyl methyl ether (technical grade)	<u>0.3</u>	
3-Chloro-2-methylpropene	<u>5</u>	
4-Chloro-o-phenylenediamine	<u>40</u>	
Chlorothalonil	<u>41</u>	
p-Chloro-o-toluidine	<u>3</u>	
p-Chloro-o-toluidine, hydrochloride	<u>3.3</u>	
Chlorozotocin	<u>0.003</u>	
Chromium (hexavalent compounds)	0.001 (inhalation)	<u>8.2 (oral)</u>
Chrysene	<u>0.35 (oral)</u>	
C.I. Basic Red 9 monohydrochloride	<u>3</u>	

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C.I. Direct Blue 218	<a href="#">50</a>	
Cinnamyl anthranilate	<a href="#">200</a>	
Coke oven emissions	0.3	
p-Cresidine	<a href="#">5</a>	
Cupferron	<a href="#">3</a>	
Cyanide salts that readily dissociate in solution (expressed as cyanide) <sup>b</sup>		<a href="#">9.8 (oral)</a>
Cyclophosphamide (anhydrous)	<a href="#">1</a>	
Cyclophosphamide (hydrated)	<a href="#">1</a>	
D&C Red No. 9	<a href="#">100</a>	
Dacarbazine	<a href="#">0.01</a>	
Daminozide	<a href="#">40</a>	
Dantron (Chrysazin; 1,8-Dihydroxyanthraquinone)	<a href="#">9</a>	
2,4-D butyric acid		<a href="#">910</a>
DDD, DDE, DDT (in combination)	2	
DDVP (Dichlorvos)	2	
2,4-Diaminoanisole	<a href="#">30</a>	
2,4-Diaminoanisole sulfate	<a href="#">50</a>	
4,4'-Diaminodiphenyl ether (4,4'-Oxydianiline)	<a href="#">5</a>	
2,4-Diaminotoluene	<a href="#">0.2</a>	
Dibenz[a,h]anthracene	<a href="#">0.2</a>	
7H-Dibenzo[c,g]carbazole	<a href="#">0.0030 (oral)</a>	
Dibenzo[a,h]pyrene	<a href="#">0.0054 (oral)</a>	
Dibenzo[a,i]pyrene	<a href="#">0.0050 (oral)</a>	
1,2-Dibromo-3-chloropropane (DBCP)	0.1	<a href="#">3.1 (oral)</a> <a href="#">4.3 (inhalation)</a>
p-Dichlorobenzene	20	
3,3'-Dichlorobenzidine	0.6	
1,1-Dichloroethane	<a href="#">100</a>	
Dichloromethane (Methylene chloride)	50 200 (inhalation)	
1,2-Dichloropropane	<a href="#">9.7</a>	
Dieldrin	0.04	
Di(2-ethylhexyl)phthalate	<a href="#">310</a>	
Adult <sup>c</sup>		<a href="#">4200 (intravenous)</a>
Infant boys, age 29 days - 24 mos. <sup>c</sup>		<a href="#">600 (intravenous)</a>
Neonatal infant boys, age 0 - 28 days <sup>c</sup>		<a href="#">210 (intravenous)</a>
Adult <sup>c</sup>		<a href="#">410 (oral)</a>
Infant boys, age 29 days - 24 mos. <sup>c</sup>		<a href="#">58 (oral)</a>
Neonatal infant boys, age 0 - 28 days <sup>c</sup>		<a href="#">20 (oral)</a>
Diethylstilbestrol (DES)	<a href="#">0.002</a>	
Diglycidyl resorcinol ether (DGRE)	<a href="#">0.4</a>	
Dihydrosafrole	<a href="#">20</a>	

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Di-isodecyl phthalate (DIDP)		<a href="#">2200</a>	
3,3'-Dimethoxybenzidine (o-Dianisidine)	<a href="#">0.15</a>		
3,3'-Dimethoxybenzidine dihydrochloride	<a href="#">0.19</a>		
4-Dimethylaminoazobenzene	<a href="#">0.2</a>		
trans-2-[(Dimethylamino)methylimino]-5-[2-(5-nitro-2-furyl)vinyl]-1,3,4-oxadiazole	<a href="#">2</a>		
7,12-Dimethylbenz(a)anthracene	<a href="#">0.003</a>		
3,3'-Dimethylbenzidine (ortho-Tolidine)	<a href="#">0.044</a>		
3,3'-Dimethylbenzidine dihydrochloride	<a href="#">0.059</a>		
Dimethylcarbamoyl chloride	<a href="#">0.05</a>		
1,2-Dimethylhydrazine	<a href="#">0.001</a>		
Dimethylvinylchloride	<a href="#">20</a>		
Di-n-butyl phthalate (DBP)			<a href="#">8.7</a>
Di-n-hexyl phthalate (DnHP)			<a href="#">2200 (oral)</a>
m-Dinitrobenzene			<a href="#">38</a>
2,4-Dinitrotoluene	<a href="#">2</a>		
1,4-Dioxane	<a href="#">30</a>		
Direct Black 38 (technical grade)	<a href="#">0.09</a>		
Direct Blue 6 (technical grade)	<a href="#">0.09</a>		
Direct Brown 95 (technical grade)	<a href="#">0.1</a>		
Disodium cyanodithioimidocarbonate			<a href="#">56 (oral)</a> <a href="#">170 (oral) as 32% pesticidal formulation</a>
Disperse Blue 1	<a href="#">200</a>		
Epichlorohydrin	<a href="#">9</a>		
Estradiol 17B	<a href="#">0.02</a>		
Ethylbenzene	<a href="#">54 (inhalation)</a> <a href="#">41 (oral)</a>		
Ethyl dipropylthiocarbamate			<a href="#">700 (oral and inhalation)</a> <a href="#">6700 (dermal)</a>
Ethyl-4,4'-dichlorobenzilate	<a href="#">7</a>		
Ethylene dibromide	<a href="#">0.2 (oral)</a> <a href="#">3 (inhalation)</a>		
Ethylene dichloride (1,2-Dichloroethane)	<a href="#">10</a>		
Ethylene glycol monoethyl ether		<a href="#">750 (oral)</a> <a href="#">960 (inhalation)</a>	
Ethylene glycol monoethyl ether acetate		<a href="#">1100 (oral)</a> <a href="#">1400 (inhalation)</a>	
Ethylene glycol monomethyl ether		<a href="#">63 (oral)</a>	
Ethylene glycol monomethyl ether acetate		<a href="#">98 (oral)</a>	
Ethyleneimine	<a href="#">0.01</a>		
Ethylene oxide	<a href="#">2</a>	<a href="#">20</a>	

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Ethylene thiourea	<a href="#">20</a>	
Folpet	200	
Formaldehyde (gas)	40	
2-(2-Formylhydrazino)-4-(5-nitro-2-furyl)thiazole	<a href="#">0.3</a>	
Furmecyclox	20	
Glu-P-1 (2-Amino-6-methyldipyrido[1,2- a:3',2'-d]imidazole)	<a href="#">0.1</a>	
Glu-P-2 (2-Aminodipyrido[1,2-a:3',2'-d]imidazole)	<a href="#">0.5</a>	
Glycidol	<a href="#">0.54</a>	
Gyromitrin (Acetaldehyde methylformylhydrazone)	<a href="#">0.07</a>	
HC Blue 1	<a href="#">10</a>	
Heptachlor	0.2	
Heptachlor epoxide	0.08	
Hexachlorobenzene	0.4	
Hexachlorocyclohexane (technical grade)	0.2	
Hexachlorocyclohexane (alpha isomer)	0.3	
Hexachlorocyclohexane (beta isomer)	0.5	
Hexachlorocyclohexane (gamma isomer)	0.6	
Hexachlorodibenzodioxin	0.0002	
Hexachloroethane	<a href="#">20</a>	
Hydramethylnon		<a href="#">120 (oral)</a>
Hydrazine	0.04	
Hydrazine sulfate	0.2	
Hydrazobenzene (1,2-Diphenylhydrazine)	<a href="#">0.8</a>	
Hydrogen cyanide <sup>b</sup>		<a href="#">10 (oral)</a>
Imazalil	<a href="#">11</a>	
IQ (2-Amino-3-methylimidazo[4,5-f] quinoline)	<a href="#">0.5</a>	
Isobutyl nitrite	<a href="#">7.4</a>	
Lasiocarpine	<a href="#">0.09</a>	
Lead	<a href="#">15 (oral)</a>	0.5
Lead acetate	<a href="#">23 (oral)</a>	
Lead phosphate	<a href="#">58 (oral)</a>	
Lead subacetate	<a href="#">41 (oral)</a>	
Linuron		<a href="#">460</a>
Me-A-alpha-C (2-Amino-3-methyl-9H-pyrido[2,3-b]indole)	<a href="#">0.6</a>	
MeIQ (2-Amino-3,4-dimethylimidazo[4,5-f]quinoline)	<a href="#">0.46</a>	
MeIQx (2-Amino-3,8-dimethylimidazo[4,5-f]quinoxaline)	<a href="#">0.41</a>	
Melphalan	<a href="#">0.005</a>	
Methanol		<a href="#">47,000 (inhalation)</a> <a href="#">23,000 (oral)</a>
2-Methylaziridine (Propyleneimine)	<a href="#">0.028</a>	

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Chemical	NSRL (µg/day) <sup>a</sup>	MADL (µg/day) <sup>a</sup>
Methyl bromide, as a structural fumigant		<a href="#">810 (inhalation)</a>
Methyl carbamate	<a href="#">160</a>	
3-Methylcholanthrene	<a href="#">0.03</a>	
5-Methylchrysene	<a href="#">0.0084 (oral)</a>	
4,4'-Methylene bis(2-chloroaniline)	<a href="#">0.5</a>	
4,4'-Methylene bis(N,N-dimethyl)benzenamine	20	
4,4'-Methylene bis(2-methylaniline)	<a href="#">0.8</a>	
4,4'-Methylenedianiline	<a href="#">0.4</a>	
4,4'-Methylenedianiline dihydrochloride	<a href="#">0.6</a>	
	<a href="#">0.058 (oral)</a>	
Methylhydrazine	<a href="#">0.090 (inhalation)</a>	
Methylhydrazine sulfate	<a href="#">0.18</a>	
4-Methylimidazole	<a href="#">29</a>	
Methyl methanesulfonate	<a href="#">7</a>	
2-Methyl-1-nitroanthraquinone (of uncertain purity)	<a href="#">0.2</a>	
N-Methyl-N'-nitro-N-nitrosoguanidine	<a href="#">0.08</a>	
		<a href="#">3200 (inhalation)</a>
N-Methylpyrrolidone		<a href="#">17000 (dermal)</a>
Methylthiouracil	<a href="#">2</a>	
Michler's ketone	<a href="#">0.8</a>	
Mirex	<a href="#">0.04</a>	
Mitomycin C	<a href="#">0.00009</a>	
Monocrotaline	<a href="#">0.07</a>	
5-(Morpholinomethyl)-3-[(5-nitrofurfurylidene)-amino]-2-oxazolidinone	<a href="#">0.18</a>	
MX (3-chloro-4-dichloromethyl-5-hydroxy-2(5H)-furanone)	<a href="#">0.11</a>	
Nalidixic acid	<a href="#">28</a>	
Naphthalene	<a href="#">5.8</a>	
2-Naphthylamine	<a href="#">0.4</a>	
Nickel refinery dust from the pyrometallurgical process	0.8	
Nickel subsulfide	0.4	
Nitrilotriacetic acid	<a href="#">100</a>	
Nitrilotriacetic acid, trisodium salt monohydrate	<a href="#">70</a>	
5-Nitroacenaphthene	<a href="#">6</a>	
Nitrofen (technical grade)	<a href="#">9</a>	
Nitrofurazone	<a href="#">0.5</a>	
1-[(5-Nitrofurfurylidene)-amino]-2-imidazolidinone	<a href="#">0.4</a>	
N-[4-(5-Nitro-2-furyl)-2-thiazolyl]acetamide	<a href="#">0.5</a>	
Nitromethane	<a href="#">39</a>	
N-Nitrosodiethanolamine	0.3	
N-Nitrosodiethylamine	0.02	

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N-Nitrosodimethylamine	0.04	
N-Nitrosodi- <i>n</i> -butylamine	0.06	
N-Nitrosodi- <i>n</i> -propylamine	0.1	
<i>p</i> -Nitrosodiphenylamine	<a href="#">30</a>	
N-Nitrosodiphenylamine	80	
4-(N-Nitrosomethylamino)-1-(3-pyridyl)1-butanone	<a href="#">0.014</a>	
N-Nitrosomethylethylamine	0.03	
N-Nitrosomorpholine	<a href="#">0.1</a>	
N-Nitroso-N-ethylurea	0.03	
N-Nitroso-N-methylurea	0.006	
N-Nitroso-N-methylurethane	<a href="#">0.006</a>	
N-Nitrosonorcotine	<a href="#">0.5</a>	
N-Nitrosopiperidine	<a href="#">0.07</a>	
N-Nitrosopyrrolidine	0.3	
Pentachlorophenol	40	
Phenacetin	<a href="#">300</a>	
Phenazopyridine	<a href="#">4</a>	
Phenazopyridine hydrochloride	<a href="#">5</a>	
Phenesterin	<a href="#">0.005</a>	
Phenobarbital	<a href="#">2</a>	
Phenoxybenzamine	<a href="#">0.2</a>	
Phenoxybenzamine hydrochloride	<a href="#">0.3</a>	
<i>o</i> -Phenylenediamine	<a href="#">26</a>	
<i>o</i> -Phenylenediamine dihydrochloride	<a href="#">44</a>	
Phenyl glycidyl ether	<a href="#">5</a>	
Phenylhydrazine	<a href="#">1</a>	
Phenylhydrazine hydrochloride	<a href="#">1.4</a>	
<i>o</i> -Phenylphenate, sodium	<a href="#">200</a>	
Polybrominated biphenyls	0.02	
Polychlorinated biphenyls	0.09	
Polygeenan	<a href="#">1200</a>	
Ponceau MX	<a href="#">200</a>	
Ponceau 3R	<a href="#">40</a>	
Potassium bromate	<a href="#">1</a>	
Potassium cyanide <sup>b</sup>		<a href="#">25 (oral)</a>
Potassium dimethyldithiocarbamate		<a href="#">720</a>
Procarbazine	<a href="#">0.05</a>	
Procarbazine hydrochloride	<a href="#">0.06</a>	
1,3-Propane sultone	<a href="#">0.3</a>	
beta-Propiolactone	<a href="#">0.05</a>	
Propylthiouracil	<a href="#">0.7</a>	
Quizalofop-ethyl		<a href="#">590</a>
Reserpine	<a href="#">0.06</a>	

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Safrole	<u>3</u>	
Sodium cyanide <sup>b</sup>		<u>19 (oral)</u> <u>23 (oral)</u>
Sodium dimethyldithiocarbamate		<u>58 (oral) as a 40% pesticidal formulation</u>
Sterigmatocystin	<u>0.02</u>	
Streptozotocin (streptozocin)	<u>0.006</u>	
Styrene oxide	<u>4</u>	
Sulfallate	<u>4</u>	
Sulfur dioxide <sup>b</sup>		<u>10,000</u>
2,3,7,8-Tetrachlorodibenzo- <i>p</i> -dioxin (TCDD)	0.000005	
1,1,2,2-Tetrachloroethane	<u>3</u>	
Tetrachloroethylene (Perchloroethylene)	14	
Tetranitromethane	<u>0.059</u>	
Thioacetamide	<u>0.1</u>	
4,4'-Thiodianiline	<u>0.05</u>	
Thiophanate methyl		<u>600 (oral)</u>
Thiourea	<u>10</u>	
Toluene		7000 <sup>d</sup>
Toluene diisocyanate	<u>20</u>	
o-Toluidine	<u>4</u>	
o-Toluidine hydrochloride	<u>5</u>	
Toxaphene (Polychlorinated camphenes)	0.6	
Trichloroethylene	<u>14 (oral)</u> <u>50 (inhalation)</u>	
2,4,6-Trichlorophenol	10	
Trimethyl phosphate	<u>24</u>	
2,4,6-Trinitrotoluene (TNT)	<u>8.2</u>	
Tris(1-aziridinyl)phosphine sulfide (Thiotepa)	<u>0.06</u>	
Tris(2,3-dibromopropyl)phosphate	<u>0.3</u>	
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	<u>5.4</u>	
Trp-P-1 (Tryptophan-P-1)	<u>0.03</u>	
Trp-P-2 (Tryptophan-P-2)	<u>0.2</u>	
Urethane (Ethyl carbamate)	0.7	
Vinyl chloride	3	
Vinyl trichloride (1,1,2-Trichloroethane)	<u>10</u>	
2,6-Xylidine (2,6-Dimethylaniline)	<u>110</u>	

<sup>a</sup> Where a source or product results in exposures by multiple routes, the total exposure must be considered. For example, the MADL for benzene is exceeded when the absorbed dose exceeds 24 µg/day. If only inhalation and oral exposure occurs, the benzene MADL is exceeded when: (oral dose ÷ 24 µg/day) + (inhalation dose ÷ 49 µg/day) > 1.0.

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<sup>b</sup> Butyl benzyl phthalate MADL was adopted June 25, 2013, Sulfur dioxide MADL was adopted July 11, 2013, Hydrogen cyanide and cyanide salts MADLs were adopted August 8, 2013; however, in accordance with Government Code section 11343.4 the MADLs will become effective October 1, 2013.

<sup>c</sup> Levels for male children and adolescents were calculated by application of the default bodyweights specified in Section 25703(a)(8) to the procedure specified in Sections 25801 and 25803, Title 27, California Code of Regulations.

<sup>d</sup> Level represents absorbed dose (rounded from 6,525  $\mu\text{g}/\text{day}$  ). Since 100% of ingested toluene is absorbed, oral dose is equivalent to administered dose. It is assumed that roughly 50% of the dose administered by the inhalation route is absorbed. Therefore the MADL for inhaled toluene is 13,000  $\mu\text{g}/\text{day}$  (rounded from 13,050  $\mu\text{g}/\text{day}$  ), corresponding to an absorbed dose of 6,525  $\mu\text{g}/\text{day}$ .