Toxics Release Inventory (TRI) Basis of OSHA Carcinogens

Under the TRI Program, a chemical does not have to be counted towards threshold determinations and release and other waste management calculations if it is present in a mixture below a certain concentration. This is known as the "de minimus" concentration in mixture. When the rule was developed that implemented the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA), EPA adopted the de minimus percentages from the Occupational Safety and Health Administration's (OSHA) Hazard Communication Standards (29 CFR 1910.1900) because much of the initial information that industry would have relating to chemicals in mixtures would most likely be from the material safety data sheet (MSDS) on that mixture. The OSHA de minimus limitation is 0.1 percent if the chemical is a known or suspect carcinogen by virtue of appearing in one of three sources:

- 1. National Toxicology Program (NTP), "Annual Report on Carcinogens" (Latest Editions);
- 2. International Agency for Research on Cancer (IARC) "Monographs" (Latest Editions);
- 3. 29 CFR 1910, Subpart Z, Toxic and Hazardous Substances, Occupational Safety and Health Administration.

The de minimus limitation is 1.0 percent for chemicals that do not meet the above OSHA carcinogen criteria. The carcinogen designation in the list of chemicals relates to any chemical that the Agency determined met the above OSHA criteria for the 0.1 percent de minimus limitation. Certain metal compound categories have two de minimus limitations. For example, hexavalent chromium compounds and inorganic arsenic compounds meet the OSHA carcinogen criteria, while trivalent chromium compounds and organic arsenic do not meet the OSHA criteria. In addition, there are no de minimus levels for persistent bioaccumulative toxic (PBT) chemicals, except for supplier notification purposes.

The following table shows the specific bases for which chemicals have been designated as a known or suspect carcinogens.

Basis of OSHA Carcinogen Listing for TRI Chemicals			
Chemical Name	IARC	NTP	OSHA-Z
Acetaldehyde	2B	Р	_
Acetamide	2B	_	-
2-Acetylaminofluorene	_	Р	Z
Acrylamide	2A	Р	-
Acrylonitrile	2B	Р	Z
2-Aminoanthraquinone	_	Р	_
4-Aminoazobenzene	2B	_	_
4-Aminobiphenyl	1	K	Z
1-Amino-2,4-dibromoanthraquinone	2B	Р	_
1-Amino-2-methylanthraquinone	_	Р	_
Amitrole	_	Р	_
o-Anisidine	2B	_	_
o-Anisidine hydrochloride	_	Р	_
Arsenic and inorganic arsenic compounds	1	K*	Z
Asbestos (friable)	1	K	Z
Benzene	1	K	Z
Benzidine	1	K	Z
Benzoic trichloride	2B	Р	_
Beryllium and beryllium compounds	1	P*	_
2,2-Bis(bromomethyl)-1,3-propanediol	2B	Р	_
Bis(chloromethyl)ether	1	K	Z
1,3-Butadiene	2A	K	_
1,2-Butylene oxide	2B	_	_
Cadmium and cadmium compounds	1	K*	Z
Carbon tetrachloride	2B	Р	_
Catechol	2B	_	1
Chlordane	2B	_	ı
Chlorendic acid	2B	Р	I
p-Chloroaniline	2B	_	1
Chloroform	2B	Р	_
Chloromethyl methyl ether	1	K	Z
3-Chloro-2-methyl-1-propene	_	Р	_
Chlorophenols	2B	_	_
Chloroprene	2B	Р	_
Chlorothalonil	2B	_	_
p-Chloro-o-toluidine	2A	Р	-
Chromium (VI) compounds	1	K	_
C.I. Acid Red 114	2B	_	_
C.I. Direct Black 38	2A	K	_
C.I. Direct Blue 6	2A	K	_
C.I. Direct Brown 95	2A	_	-
C.I. Food Red 5	2B	_	_
C.I. Solvent Yellow 3 (o-aminoazotoluene)	2B	Р	-

01.01()/: 04/4		1	
C.I. Solvent Yellow 34 (Auramine)	2B	_	_
Cobalt and cobalt compounds	2B	P*	_
Creosote	2A	K	_
p-Cresidine	2B	Р	_
Cupferron		Р	_
2,4-D**	2B	-	_
2,4-D butoxyethyl ester**	2B	_	_
2,4-D butyl ester**	2B	_	_
2,4-D chlorocrotyl ester**	2B	_	_
2,4-D 2-ethylhexyl ester**	2B	_	_
2,4-D 2-ethyl-4-methylpentyl ester**	2B	_	_
2,4-Diaminoanisole	2B	_	_
2,4-Diaminoanisole sulfate	_	Р	_
4,4'-Diaminodiphenyl ether	2B	_	_
2,4-Diaminotoluene	2B	Р	_
Diaminotoluene (mixed isomers)	2B	Р	_
1,2-Dibromo-3-chloropropane	2B	Р	Z
1,2-Dibromoethane	2A	Р	_
1,4-Dichlorobenzene	2B	Р	_
Dichlorobenzene (mixed isomers)	2B	Р	_
3,3'-Dichlorobenzidine	2B	Р	Z
3,3'-Dichlorobenzidine dihydrochloride	2B	Р	Z
3,3'-Dichlorobenzidine sulfate	2B	Р	Z
Dichlorobromomethane	2B	Р	_
1,2-Dichloroethane	2B	Р	_
Dichloromethane	2B	Р	Z
trans-1,3-Dichloropropene	2B	_	_
1,3-Dichloropropylene	2B	Р	_
Dichlorvos	2B	_	_
Diepoxybutane	2B	Р	_
Di-(2-ethylhexyl)phthalate	_	Р	_
Diethyl sulfate	2A	Р	_
Diglycidyl resorcinol ether	2B	Р	_
Dihydrosafrole	2B	_	_
3,3'-Dimethoxybenzidine	2B	Р	_
3,3'-Dimethoxybenzidine dihydrochloride	2B	Р	_
3,3'-Dimethoxybenzidine hydrochloride	2B	Р	_
4-Dimethylaminoazobenzene	2B	P	Z
3,3'-Dimethylbenzidine	2B	P	_
3,3'-Dimethylbenzidine dihydrochloride	2B	P	_
3,3'-Dimethylbenzidine dihydrofluoride	2B	P	_
Dimethylcarbamyl chloride	2A	P	_
1,1-Dimethylhydrazine	2B	P	_
Dimethyl sulfate	2A	Р	_
2,4-Dinitrotoluene	2B	_	_
2,6-Dinitrotoluene	2B		_
2,0°Diffiti Otoluci ic	ZD		

1,4-Dioxane	2B	Р	_
1,2-Diphenylhydrazine	_	Р	<u>_</u>
2,4-D isopropyl ester**	2B	_	_
2,4-DP**	2B	_	_
2,4-D propylene glycol butyl ether ester**	2B	_	_
2,4-D sodium salt**	2B	_	_
Epichlorohydrin	2A	Р	_
Ethyl acrylate	2B	<u> </u>	<u>_</u>
Ethyl benzene	2B		_
Ethyleneimine	20	_	Z
•	1	K	Z
Ethylene oxide Ethylene thiourea	ı	Р	
-			7
Formaldehyde	1	K	Z
Furan	2B	Р	_
Glycidol	2A	Р	_
Heptachlor	2B	-	_
Hexachlorobenzene	2B	Р	_
alpha-Hexachlorocyclohexane	2B	Р	_
Hexachloroethane	2B	Р	_
Hexamethylphosphoramide	2B	Р	_
Hydrazine	2B	Р	_
Hydrazine sulfate	_	Р	_
Isoprene	2B	Р	_
Lead and inorganic lead compounds	2A	Р	Z
Lindane	2B	Р	_
Mecoprop**	2B	_	_
Methoxone**	2B	_	_
Methoxone sodium salt**	2B	_	_
4,4-Methylenebis (2-chloroaniline)	1	Р	_
4,4'-Methylenebis (N,N-dimethyl) benzeneamine	2B	Р	_
4,4'-Methylenedianiline	2B	Р	Z
Methyleugenol	2B	Р	_
Michler's ketone	_	Р	_
Mustard gas	1	K	_
Naphthalene	2B	Р	_
alpha-Naphthylamine	1	_	Z
beta-Naphthylamine	1	K	Z
Nickel	2B	Р	_
Nickel compounds	1	P*	_
Nitrilotriacetic acid	_	Р	_
o-Nitroanisole	2B	Р	
Nitrobenzene	2B	Р	_
4-Nitrobiphenyl	_	_	Z
Nitrofen	2B	Р	_
Nitrogen mustard	2A	_	_
Nitromethane	2B	Р	_

N-Nitrosodi-n-butylamine	O N!tura area area	OD		
N-Nitrosodimethylamine N-Nitrosodimethylamine N-Nitrosodi-n-propylamine N-Nitroso-N-ethylurea N-Nitroson-N-ethylurea N-Nitroson-N-ethylurea N-Nitroson-N-ethylurea N-Nitrosomorhylvinylamine N-Nitrosomorhylvinylamine N-Nitrosomorholine N-Nitrosomorholine N-Nitrosopiperidine N-Nitrosopipe	2-Nitropropane	2B	Р	_
N-Nitrosodimethylamine N-Nitrosodin-propylamine N-Nitroson-Propylamine N-Nitroson-Propylamine N-Nitroson-N-methylurea N-Nitroson-N-methylurea N-Nitrosomethylvinylamine N-Nitrosomorpholine N-Nitrosomorpholice N-N-Nitrosomorpholice N-N-Nitrosomorpholice N-N-Nitrosomorpholice N-N-Nitrosomorpholice N-N-Nitrosomorpholice N-N-Nitrosomorpholice N-N-Nitrosomorpholice N-N-Nitrosomorpholice N-	-			_
N-Nitroso-N-ethylurea	•			_
N-Nitroso-N-ethylurea				Z
N-Nitroson-N-methylurea 2A			-	_
N-Nitrosomethylvinylamine 2B				_
N-Nitrosomorpholine 2B			Р	_
N-Nitrosonornicotine N-Nitrosopiperidine N-Nit				_
N-Nitrosopiperidine	•	2B	Р	_
o-Nitrotoluene 2A P — Pentachlorophenol 2B — — Phenolphthalein 2B P — Phenytoin 2B P — Polybrominated biphenyls (PBs) 2B P — Polychlorinated biphenyls (PCBs) 2A P — Polycyclic aromatic compounds (PACs): 2B — — Benz(a)anthracene 2A P — Benzo(b)fluoranthene 2B P — Benzo(b)fluoranthene 2B P — Benzo(k)fluoranthene 2B P — Benzo(k)fluoranthene 2B P — Benzo(k)fluoranthene 2B P — Benzo(a)fluoranthene 2B P — Benzo(a)kfluoranthene 2B P — Benzo(a)kfluoranthene 2B P — Benzo(a)kfluoranthene 2B P — Dibenzo(a)pyrene 2B	N-Nitrosonornicotine	1	Р	-
Pentachlorophenol 2B — — Phenolphthalein 2B P — Phenytoin 2B P — Polybrominated biphenyls (PBBs) 2B P — Polychlorinated alkanes (C12, 60% chlorinated) — P — Polychlorinated biphenyls (PCBs) 2A P — Polycyclic aromatic compounds (PACs): 2B P — Benz(a)anthracene 2A P — Benzo(b)fluoranthene 2B P — Benzo(k)fluoranthene 2B P — Benzo(s)prentaphene 2B P — Benzo(a)pytrene 2B P — Dibenz(a,i)jacridine 2B P — Dibenzo(a,e)pytrene	N-Nitrosopiperidine	2B	Р	_
Phenolphthalein 2B P — Phenytoin 2B P — Polybrominated biphenyls (PBBs) 2B P — Polychlorinated biphenyls (PCBs) 2A P — Polycyclic aromatic compounds (PACs): 2B P — Benz(a) anthracene 2A P — Benzo(b)fluoranthene 2B P — Benzo(j)fluoranthene 2B P — Benzo(k)fluoranthene 2B P — Benzo(j)fluoranthene 2B P — Benzo(st)pentaphene 2B P — Benzo(j)fluoranthene 2B P — Dibenzo(a)pyrene 2B	o-Nitrotoluene	2A	Р	_
Phenytoin 2B P — Polybrominated biphenyls (PBBs) 2B P — Polychlorinated alkanes (C12, 60% chlorinated) — P — Polychlorinated biphenyls (PCBs) 2A P — Polycyclic aromatic compounds (PACs): 2B — — Benz(a)anthracene 2A P — Benzo(b)fluoranthene 2B P — Benzo(l)fluoranthene 2B P — Benzo(k)fluoranthene 2B P — Dibenzo(a)pyrene 2B P — Th-Dibenz(a,l)baridin	Pentachlorophenol	2B	_	_
Polybrominated biphenyls (PBBs)	Phenolphthalein	2B	Р	_
Polychlorinated alkanes (C12, 60% chlorinated) - P - Polychlorinated biphenyls (PCBs) 2A P - Polycyclic aromatic compounds (PACs): 2B - - Benz(a)anthracene 2A P - Benzo(b)fluoranthene 2B P - Benzo(jfluoranthene 2B P - Benzo(k)fluoranthene 2B P - Benzo(x)fluoranthene 2B P - Benzo(x)fluoranthene 2B P - Dibenz(a,h)arthene 2B P - Dibenz(a,h)arthracene 2B P - Dibenzo(a,j)parene 2B P - Dibenzo(a,j)pyrene 2B P - Dibenzo(a,j)pyrene	Phenytoin	2B	Р	_
Polychlorinated biphenyls (PCBs) 2A P — Polycyclic aromatic compounds (PACs): 2B — Benz(a)anthracene 2A P — Benzo(b)fluoranthene 2B P — Benzo(jfluoranthene 2B P — Benzo(k)fluoranthene 2B P — Benzo(stylpentaphene 2B P — Benzo(a)pyrene 2A P — Benzo(a)pyrene 2A P — Dibenz(a,h)acridine 2A P — Dibenzo(a,j)acridine 2B P — Dibenzo(a,j)acridine 2B P — Dibenzo(a,j)acridine 2B P — Dibenzo(a,jacridine 2B P — </td <td>Polybrominated biphenyls (PBBs)</td> <td>2B</td> <td>Р</td> <td>_</td>	Polybrominated biphenyls (PBBs)	2B	Р	_
Polychlorinated biphenyls (PCBs) 2A P — Polycyclic aromatic compounds (PACs): 2B — Benz(a)anthracene 2A P — Benzo(b)fluoranthene 2B P — Benzo(jfluoranthene 2B P — Benzo(k)fluoranthene 2B P — Benzo(stylpentaphene 2B P — Benzo(a)pyrene 2A P — Benzo(a)pyrene 2A P — Dibenz(a,h)acridine 2A P — Dibenzo(a,j)acridine 2B P — Dibenzo(a,j)acridine 2B P — Dibenzo(a,j)acridine 2B P — Dibenzo(a,jacridine 2B P — </td <td></td> <td>_</td> <td>Р</td> <td>_</td>		_	Р	_
Polycyclic aromatic compounds (PACs):		2A	Р	_
Benz(a)anthracene 2A P — Benzo(b)fluoranthene 2B P — Benzo(j)fluoranthene 2B P — Benzo(k)fluoranthene 2B P — Benzo(rst)pentaphene 2B P — Benzo(a)pyrene 2A P — Benzo(a,h)acridine 2A P — Dibenz(a,j)acridine 2B P — Dibenzo(a,h)anthracene 2B P — 7H-Dibenzo(c,g)carbazole 2B P — Dibenzo(a,lopyrene 2B P — Dibenzo(a,lopyrene 2B P — Dibenzo(a,lopyrene 2B P — 7,12-Dimethylbenz(a)anthracene 2B P — 1,6-Dinitropyrene 2B P — 1,8-Dinitropyrene 2B P — 1-Methylchrysene 2B P — 6-Nitrochrysene 2B P —				_
Benzo(b)fluoranthene 2B P — Benzo(j)fluoranthene 2B P — Benzo(k)fluoranthene 2B P — Benzo(rst)pentaphene 2B P — Benzo(a)pyrene 2A P — Dibenz(a,h)acridine 2B P — Dibenz(a,j)acridine 2B P — Dibenzo(a,j)acridine 2B P — Dibenzo(a,j)anthracene 2B P — 7H-Dibenzo(c,g)carbazole 2B P — Dibenzo(a,p)pyrene 2B P — Dibenzo(a,l)pyrene 2B P — 7,12-Dimethylbenz(a)anthracene 2B P — 1,6-Dinitropyrene 2B P — 1,8-Dinitropyrene 2B P — 1,8-Dinitropyrene 2B P — 5-Methylchrysene 2B P — 6-Nitrochrysene 2B P — <td></td> <td></td> <td>Р</td> <td>_</td>			Р	_
Benzo(j)fluoranthene 2B P — Benzo(k)fluoranthene 2B P — Benzo(a)pyrene 2B — — Benzo(a)pyrene 2A P — Dibenz(a,h)acridine 2A P — Dibenz(a,j)acridine 2B P — Dibenzo(a,h)anthracene 2B P — 7H-Dibenzo(c,g)carbazole 2B P — Dibenzo(a,e)pyrene 2B P — Dibenzo(a,h)pyrene 2B P — Dibenzo(a,l)pyrene 2B P — 7,12-Dimethylbenz(a)anthracene 2B P — 1,6-Dinitropyrene 2B P — 1,8-Dinitropyrene 2B P — 1,8-Dinitropyrene 2B P — 5-Methylchrysene 2B P — 6-Nitrochrysene 2B P — 4-Nitropyrene 2B P —	• •			_
Benzo(k)fluoranthene 2B P — Benzo(rst)pentaphene 2B — — Benzo(a)pyrene 2A P — Dibenz(a,h)acridine 2A P — Dibenz(a,j)acridine 2B P — Dibenzo(a,h)anthracene 2B P — 7H-Dibenzo(c,g)carbazole 2B P — Dibenzo(a,e)pyrene 2B P — Dibenzo(a,h)pyrene 2B P — Dibenzo(a,l)pyrene 2B P — Dibenzo(a,l)pyrene 2B P — 7,12-Dimethylbenz(a)anthracene 2B P — 1,6-Dinitropyrene 2B P — 1,8-Dinitropyrene 2B P — 1,8-Dinitropyrene 2B P — 5-Methylchrysene 2B P — 6-Nitrochrysene 2B P — 4-Nitropyrene 2B P —	` '			_
Benzo(rst)pentaphene 2B - - Benzo(a)pyrene 2A P - Dibenz(a,h)acridine 2A P - Dibenz(a,j)acridine 2B P - Dibenzo(a,h)anthracene 2B P - 7H-Dibenzo(c,g)carbazole 2B P - Dibenzo(a,e)pyrene 2B P - Dibenzo(a,h)pyrene 2B P - Dibenzo(a,h)pyrene 2B P - Dibenzo(a,h)pyrene 2B P - 7,12-Dimethylbenz(a)anthracene 2B P - 1,6-Dinitropyrene 2B P - 1,8-Dinitropyrene 2B P - 1,8-Dinitropyrene 2B P - 5-Methylchrysene 2B P - 6-Nitrochrysene 2B P - 1-Nitropyrene 2B P - 4-Nitropyrene 2B P - <t< td=""><td></td><td></td><td></td><td>_</td></t<>				_
Benzo(a)pyrene 2A P — Dibenz(a,h)acridine 2A P — Dibenz(a,j)acridine 2B P — Dibenzo(a,h)anthracene 2B P — 7H-Dibenzo(c,g)carbazole 2B P — Dibenzo(a,e)pyrene 2B P — Dibenzo(a,h)pyrene 2B P — 7,12-Dimethylbenz(a)anthracene 2B P — 1,6-Dinitropyrene 2B P — 1,8-Dinitropyrene 2B P — 5-Methylchrysene 2B P — 6-Nitrochrysene 2B P — 1-Nitropyrene 2B P —	, ,		_	_
Dibenz(a,h)acridine 2A P — Dibenz(a,j)acridine 2B P — Dibenzo(a,h)anthracene 2B P — 7H—Dibenzo(c,g)carbazole 2B P — Dibenzo(a,e)pyrene 2B P — Dibenzo(a,h)pyrene 2B P — Dibenzo(a,l)pyrene 2B P — 7,12—Dimethylbenz(a)anthracene 2B P — 1,6-Dinitropyrene 2B P — 1,8-Dinitropyrene 2B P — 1,8-Dinitropyrene 2B P — 1,8-Dinitropyrene 2B P — 5-Methylchrysene 2B P — 6-Nitrochrysene 2B P — 4-Nitropyrene 2B P — 4-Nitropyrene 2B P — 4-Nitropyrene 2B P — Propane sultone 2B P —			Р	_
Dibenz(a,j)acridine 2B P — Dibenzo(a,h)anthracene 2B P — 7H—Dibenzo(c,g)carbazole 2B P — Dibenzo(a,e)pyrene 2B P — Dibenzo(a,h)pyrene 2B P — Dibenzo(a,l)pyrene 2B P — 7,12—Dimethylbenz(a)anthracene 2B P — 1,6-Dinitropyrene 2B P — 1,8-Dinitropyrene 2B P — 1,8-Dinitropyrene 2B P — 5-Methylchrysene 2B P — 5-Methylchrysene 2B P — 6-Nitrochrysene 2B P — 1-Nitropyrene 2B P — 4-Nitropyrene 2B P — Potassium bromate 2B P — Propane sultone 2B P — beta-Propiolactone 2B P —				_
Dibenzo(a,h)anthracene 2B P — 7H-Dibenzo(a,g)carbazole 2B P — Dibenzo(a,e)pyrene 2B P — Dibenzo(a,h)pyrene 2B P — Dibenzo(a,l)pyrene 2B P — 7,12-Dimethylbenz(a)anthracene 2B P — 1,6-Dinitropyrene 2B P — 1,8-Dinitropyrene 2B P — 1,8-Dinitropyrene 2B P — 5-Methylchrysene 2B P — 6-Nitrochrysene 2B P — 1-Nitropyrene 2B P — 4-Nitropyrene 2B P — Potassium bromate 2B P — Propane sultone 2B P — beta-Propiolactone 2B P — Propylene imine 2B P — Propylene oxide 2B P —	, ,			_
7H—Dibenzo(c,g)carbazole 2B P — Dibenzo(a,e)pyrene 2B P — Dibenzo(a,h)pyrene 2B P — Dibenzo(a,l)pyrene 2B P — 7,12—Dimethylbenz(a)anthracene 2B P — 1,6-Dinitropyrene 2B P — 1,8-Dinitropyrene 2B P — 1,8-Dinitropyrene 2B P — 5-Methylchrysene 2B P — 5-Methylchrysene 2B P — 6-Nitrochrysene 2B P — 1-Nitropyrene 2B P — 4-Nitropyrene 2B P — Potassium bromate 2B P — Propane sultone 2B P — beta-Propiolactone 2B P — Propylene imine 2B P — Propylene oxide 2B P —				_
Dibenzo(a,e)pyrene 2B P — Dibenzo(a,h)pyrene 2B P — Dibenzo(a,l)pyrene 2B P — 7,12-Dimethylbenz(a)anthracene 2B P — 1,6-Dinitropyrene 2B P — 1,8-Dinitropyrene 2B P — 1,8-Dinitropyrene 2B P — 5-Methylchrysene 2B P — 5-Methylchrysene 2B P — 6-Nitrochrysene 2B P — 1-Nitropyrene 2B P — 4-Nitropyrene 2B P — Potassium bromate 2B P — Propane sultone 2B P — beta-Propiolactone 2B P — Propylene oxide 2B P —	` '			_
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Dibenzo(a,l)pyrene 2B P — 7,12-Dimethylbenz(a)anthracene 2B — — 1,6-Dinitropyrene 2B P — 1,8-Dinitropyrene 2B P — 1,8-Dinitropyrene 2B P — Indeno[1,2,3-cd]pyrene 2B P — 5-Methylchrysene 2B P — 6-Nitrochrysene 2B P — 1-Nitropyrene 2B P — 4-Nitropyrene 2B P — Potassium bromate 2B P — Propane sultone 2B P — beta-Propiolactone 2B P Z Propyleneimine 2B P — Propylene oxide 2B P —				_
7,12-Dimethylbenz(a)anthracene 2B - - 1,6-Dinitropyrene 2B P - 1,8-Dinitropyrene 2B P - 1,8-Dinitropyrene 2B P - 1ndeno[1,2,3-cd]pyrene 2B P - 5-Methylchrysene 2B P - 6-Nitrochrysene 2B P - 1-Nitropyrene 2B P - 4-Nitropyrene 2B P - Potassium bromate 2B P - Propane sultone 2B P - beta-Propiolactone 2B P Z Propyleneimine 2B P - Propylene oxide 2B P -				_
1,6-Dinitropyrene 2B P — 1,8-Dinitropyrene 2B P — Indeno[1,2,3-cd]pyrene 2B P — 5-Methylchrysene 2B P — 6-Nitrochrysene 2B P — 1-Nitropyrene 2B P — 4-Nitropyrene 2B P — Potassium bromate 2B P — Propane sultone 2B P — beta-Propiolactone 2B P — Propyleneimine 2B P — Propylene oxide 2B P —			Р	_
1,8-Dinitropyrene 2B P — Indeno[1,2,3-cd]pyrene 2B P — 5-Methylchrysene 2B P — 6-Nitrochrysene 2B P — 1-Nitropyrene 2B P — 4-Nitropyrene 2B P — Potassium bromate 2B P — Propane sultone 2B P — beta-Propiolactone 2B P Z Propyleneimine 2B P — Propylene oxide 2B P —			_	_
Indeno[1,2,3-cd]pyrene 2B P - 5-Methylchrysene 2B P - 6-Nitrochrysene 2B P - 1-Nitropyrene 2B P - 4-Nitropyrene 2B P - Potassium bromate 2B P - Propane sultone 2B P - beta-Propiolactone 2B P Z Propyleneimine 2B P - Propylene oxide 2B P -				_
5-Methylchrysene 2B P - 6-Nitrochrysene 2B P - 1-Nitropyrene 2B P - 4-Nitropyrene 2B P - Potassium bromate 2B P - Propane sultone 2B P - beta-Propiolactone 2B P Z Propyleneimine 2B P - Propylene oxide 2B P -				_
6-Nitrochrysene 2B P — 1-Nitropyrene 2B P — 4-Nitropyrene 2B P — Potassium bromate 2B — — Propane sultone 2B P — beta-Propiolactone 2B P Z Propyleneimine 2B P — Propylene oxide 2B P —				_
1-Nitropyrene 2B P — 4-Nitropyrene 2B P — Potassium bromate 2B — — Propane sultone 2B P — beta-Propiolactone 2B P Z Propyleneimine 2B P — Propylene oxide 2B P —				_
4-Nitropyrene 2B P — Potassium bromate 2B — — Propane sultone 2B P — beta-Propiolactone 2B P Z Propyleneimine 2B P — Propylene oxide 2B P —				_
Potassium bromate 2B — — Propane sultone 2B P — beta-Propiolactone 2B P Z Propyleneimine 2B P — Propylene oxide 2B P —	i i i i i i i i i i i i i i i i i i i			<u>-</u>
Propane sultone2BP—beta-Propiolactone2BPZPropyleneimine2BP—Propylene oxide2BP—			Р	-
beta-Propiolactone 2B P Z Propyleneimine 2B P — Propylene oxide 2B P —			_	_
Propyleneimine2BP—Propylene oxide2BP—	·		Р	_
Propylene oxide 2B P —	·	2B	Р	Z
	Propyleneimine	2B	Р	_
Safrole 2B P –	Propylene oxide	2B	Р	_
	Safrole	2B	Р	_

	_	_
2B	Р	_
2A	_	_
2B	Р	_
1	K	_
2B	Р	_
_	Р	-
2B	Р	-
2B	Р	-
2B	Р	
1	Р	_
_	Р	_
2B	Р	_
2A	Р	-
2B	Р	-
2A	Р	1
2A	Р	1
2B	ı	_
2B	Р	-
2B	ı	-
2A	_	_
1	K	Z
2A	Р	_
2B	_	_
	2B 1 2B 2C 2B 2C	2B P 2A - 2B P 1 K 2B P

Note: The list of TRI chemicals meeting the OSHA carcinogen standard and, therefore, not reported when in a mixture at a concentration level below the de minimus level of 0.1% has been updated, and this list reflects the update.

IARC: 1–The chemical is carcinogenic to humans; 2A–The chemical is probably carcinogenic to humans; 2B–The chemical is possibly carcinogenic to humans.

NTP: K-The chemical is known to be a human carcinogen; P-The chemical is reasonably anticipated to be a human carcinogen.

OSHA: Z-The chemical appears at 29 CFR part 1910 Subpart Z.

^{*} Certain compounds.

^{**} Chlorophenoxy herbicides (IARC 2B).