



Red Spot's Green Initiative Program Banned and Controlled Substances List

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1.0 Purpose

This guidance document identifies the substances whose use in materials and components are either prohibited or controlled. These restrictions are based on existing legislation or self-imposed regulations by Red Spot Paint & Varnish Co., Inc. (Red Spot) that promotes Red Spot's Green Initiative Program. The purpose of this specification is to prevent or restrict the usage of the substances listed and to facilitate compliance with current and future regulations. This specification supplements but does not supersede the responsibility of each supplier to comply with current or future laws and regulations that govern global commerce. Please note that this list is not exhaustive and the company supplying substances to Red Spot shall provide a manufacturer certification that includes full disclosure of components in the substances provided.

2.0 Scope

Raw materials and chemical substances supplied to Red Spot must comply with the latest version of the Banned and Controlled Substances List provided by Red Spot.

3.0 Definitions

The following terms and associated supplemental information is provided to assist the supplier in identifying regulatory statutes that this document is based. *This list is not meant to be exhaustive and may include other regulatory statutes by reference.*

<u>Auto-REACH</u>	REACH communication tracking tool for the automotive industry [Registration, Evaluation and Authorization and Restriction of CHemicals] (https://www.auto-reach.com/).
<u>ASTM F2576 –09</u>	Standard Terminology Relating to Declarable Substances in Materials
<u>ASTM F2577 –06</u>	Standard Guide for Assessment of Materials and Products for Declarable Substances
<u>ASTM F2725-08</u>	Standard Guide for European Union's Registration, Evaluation, and Authorization of Chemicals (REACH) Supply Chain Information Exchange
<u>CF3192</u>	South Coast (California) Air Quality Management District (AQMD) Proceedings: Chemical/Adhesive Checklist
<u>CS-9003</u>	Chrysler Corporation Characteristic Standard: Environmental, Health, and Occupational Safety Requirements for Regulated Substances or Processes and Product Recycling Reporting Requirements
<u>DBL 8585</u>	Mercedes-Benz Standard: Supply Specification Negative substance list for the selection of materials
<u>Dodd-Frank Act</u>	Section 1502 of the US law known as the "Dodd-Frank Act" includes a requirement that companies using gold, tin, tungsten and tantalum make efforts to determine if those materials came from the Democratic Republic of



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Congo (DRC) or an adjoining country and, if so, to carry out a "due diligence" review of their supply chain to determine whether their mineral purchases are funding armed groups in eastern DRC.

<u>2002/525/EC</u>	Commission Decision 2010/115/EU amending Annex II of Directive 2000/53/EC dated 23 February 2010
<u>2003/11/EC</u>	Directive 2003/11/EC of the European Parliament (banning some Brominated fire retardants)
<u>GADSL</u>	Global Automotive Declarable Substance List (GADSL), published by the Global Automotive Stakeholder Group www.gadsl.org .
<u>GMW3059</u>	General Motors Worldwide Engineering Standard: Material Specification General: Restricted and Reportable Substances for Parts
<u>IMDS</u>	International Material Data System (IMDS) is the automotive industry's web-based material data system. (www.mdssystem.com).
<u>REACH</u>	Registration, Evaluation, Authorization (and Restriction) of CHemical substances (EC 1907/2006).
<u>RoHS Directive</u>	Restriction of use Of certain Hazardous Substances in electrical and electronic equipment. (European Community Directive 2002/95/EC).
<u>SOC</u>	Substances of Concern
<u>TSCA</u>	Toxic Substance Control Act (USA requirement)
<u>TSZ0001G</u>	Toyota Engineering Standard: Control Rules for Substances of Environmental Concern
<u>WEEE Directive</u>	Waste Electrical and Electronic Equipment (European Community directive 2002/96/EC).
<u>WSS-M99P9999-A1</u>	Ford Specification: Restricted Substance Management Standard

4.0 Responsibilities

The supplier, which is defined by this document to include any entity that offers a substance to Red Spot, is accountable to adhering to this document. The supplier must disclose all substance to the best of their ability to Red Spot, especially where a banned or controlled substance is known to exist.

Red Spot Research & Development, Purchasing, Environmental, and/or Health & Safety Departments shall determine whether the supplied material complies with the requirements of this document.



5.0 Procedure

- 5.1 **General Hazardous Material Requirements.** It is the intent of Red Spot to comply with all laws and regulations relating to potentially hazardous substances and to conduct business in a manner which presents minimum risk to employees, suppliers' employees, countries, consumers, and the environment. Products or substances in products must be identified if they are potentially hazardous or may cause harm either to human health, safety, or to the environment as defined in regulations developed in the Occupational Safety and Health Act, Toxic Substance Control Act, Resource Conservation and Recovery Act, Clean Air Act, Federal Water Pollution Control Act, Safe Drinking Water Act, Hazardous Materials Transportation Act, Health and Safety at Work Act 1974, Environmental Protection Act 1990, Frank-Dodd Act Section 1502 "Conflict Minerals," and other appropriate acts. Any new products or processes shall not be used without prior approval from the Red Spot Environmental, Health, and Safety Department. Failure to comply shall be sufficient cause to warrant rejection of shipments.
- 5.2 **SOC (Substances of Concern).** All materials sold to Red Spot must be reported to be free of lead, mercury, cadmium, hexavalent chromium and Polybrominated biphenyls (PBB) and Polybrominated diphenyl ethers (PBDE). Additional substances may be added as changes occur with legislation or customer requirements. The following threshold values will be used for SOC constituents:
- 5.2.1 A maximum concentration value up to 0.1% by weight and per homogeneous material, for lead, hexavalent chromium, mercury and Brominated Diphenyl Ether (PBDE)/ PBB), and up to 0.01% by weight per homogeneous material for cadmium shall be acceptable.
- 5.3 **REACH [Registration, Evaluation, Authorization (and Restriction) of Chemical substances].** All substances supplied to Red Spot must comply with the most current REACH regulation requirements.
- 5.4 **Frank-Dodd Act (Conflict Minerals).** All materials sold to Red Spot that contain Tin, Tungsten, Tantalum, or Gold must comply with the Frank-Dodd Act, Section 1502, which shall be accomplished by completing the current Conflict Minerals Reporting Template (CMRT) that can be found at www.conflictreesourcing.org.
- 5.5 All materials that are imported into the United States must have an indication of status for Toxic Substance Control Act (TSCA). Preferably the TSCA status should be listed on the SDS (Safety Data Sheet).
- 5.6 Red Spot has banned specific substances for use at its facilities. These banned substances are listed in Table 1.



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- 5.7 No globally banned substances of concern shall be present in products – See Table 2 and the current GADSL for banned substances.
- 5.8 Any regulated substances of concern must be reported in the manufacturer certification form (MCF) or supplier quotation package. Supplier must certify what substances are present in the raw materials/products that are shipped to Red Spot. See Table 2 and the current GADSL for regulated (reportable) substances. *Please note that VOC and HAP constituents and concentrations must be reported for all liquid materials.*

Table 1 –Red Spot Banned Substances

<u>Banned Substance of Concern</u>	<u>CAS Number</u>	<u>Notes</u>
Halogenated Solvents	Group	These substances include chlorinated solvents (e.g., trichloroethylene, tetrachloroethylene, dichloroethylene, etc.), brominated solvents

Table 2 –Globally Banned Substances of Concern

<u>Banned Substance of Concern</u>	<u>CAS Number</u>	<u>Notes</u>
Acetaldehyde	75-07-0	P>10 ppm for passenger compartment materials (Homogeneous materials <10 grams are exempt). Note: Acetaldehyde is D for all parts per GADSL.
Aldrin	309-00-2	Insecticide, anti-mold
Asbestos Minerals, all members	1332-21-4, Various	Potential to form Asbestos fibers
Cadmium and cadmium compounds	Various	Threshold: 0.009% for Hyundai Kia
Carbon disulfide (carbon bisulfide)	75-15-0	Emitted substance from vulcanized elastomers
Chlordane (1,2,4,5,6,7,8,8-octachloro-4,7-methano-3a,4,7,7a-Tetrahydroindane)	57-74-9	
Chlordecane		
Chromium, hexavalent compounds	Various	Threshold: 0.09% for Hyundai Kia.
Creosote (Coal tar fractions: coal tar light oil, coal tar naphtha, coal tar creosote, coal tar pitch volatiles, creosote oil, liquid pitch oil, tar oil)	Coal tar : 65996-93-2 Creosote: 8001-58-9	Distillation products, fillers, hardener, paints, varnishes.
DBB di- <i>u</i> -oxo-di-n-butyl-stannio-hydroxyborane		Organic tin compound
DDD (dichloro diphenyl dichloroethane) [1,1-dichloro-2,2-bis(<i>p</i> -chlorophenyl)ethane] (TDE - tetrachlorodiphenylethane)	72-54-8	



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DDE (dichloro diphenyl dichloroethylene)		
dichlorophenyl dichlorotolyl methane		
dieldrin	60-57-1	
N,N'-ditolyl-p-phenylenediamine	27417-40-9	
N,N'-dixylyl-p-phenylenediamine	28726-30-9	
endrin (1,2,3,4,10,10-hexachloro-6,7-epoxy- 1,4,4a,5,6,7,8,8a-octahydro-1,4-endo,endo-5,8- di-methanonaphthalene)	72-20-8	
EGEE ethylene glycol ethyl ether	110-80-5	
EGEEA ethylene glycol ethyl ether acetate	111-15-9	
EGMEA Ethylene Glycol Methyl Ether Acetate	110-49-6	
EDTA ethylenediaminetetracetic acid and its salts	60-00-4	Threshold 1%.
Formaldehyde	50-00-0	P>10 ppm for passenger compartment materials (Homogeneous materials <10 grams are exempt). Note: Formaldehyde is D for all parts per GADSL.
hexachlorocyclohexane (benzene hexachloride)	608-73-1 58-89-9	Insecticide
hexachloroethane (perchloroethane; carbon trichloride; carbon hexachloride)	67-72-1	
HMPA Hempa (hexamethyl-phosphoramidate) (Hempa = generic name for hexamethylphosphoric triamide; hexamethylphosphoramidate; HMPA; hexametapol)	680-31-9	
hydrogen sulfide substances splitting off of hydrogen sulfide	7783-06-4	
kelevane		Insecticide
lead and lead compounds	Various	Threshold: 0.09% for Hyundai Kia.
mercury and mercury compounds	Various	Threshold: 0.09% for Hyundai Kia.
mesityl oxide	141-79-7	
n-mono (or di) methyl phenyl-n-mono (or di) methyl phenyl para phenylin-diamine		Rubber antioxidant.
nonylphenoethoxylates		Surface active materials
NTA nitrilotriacetic acid (NTA; triglycine; TGA; triglycolamic acid).	139-13-9	Complexing agent
octylphenoethoxylates		Surface active materials
Ozone-Depleting Substances	28605-74-5 661-96-1	



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<u>Banned Substance of Concern</u>	<u>CAS Number</u>	<u>Notes</u>
	1652-89-7 1652-81-9 Various	
PDTA propylene diamine tetra-acetic acid and its salts	Group	
Perfluoromethane	75-73-0	
Perfluoroethane	76-16-4	
Perfluoropropane	76-19-7	
Perfluorobutane	355-25-9	
Perfluoropentane	678-26-2	
Perfluorohexane	355-42-0	
Perfluorocyclobutane	115-25-3	
phosphorous yellow match P4	7723-14-0	
Polychlorinated Naphthalenes, all members	70776-03-3 1321-64-8 38289-27-9	
silicon-containing compounds	Examples: 7440-21-3 7631-86-9	Includes only volatile silicone oils that affect painting and adhesion.
Sodium Azide	26628-22-8	
strobane (terpenepolychlorinates)	8001-50-1	Insecticide
telodrine	297-78-9	Insecticide
tetrachlorophenol, its salts, and compounds of tetrachlorophenoxy	58-90-2	
Thiourea thiocarbamide	62-56-6	A carcinogen (OSHA). May not be used in food products (FDA). Skin irritant (allergenic).
Triethanolamine	102-71-6	Use in coolant for Norway is prohibited (Norway Bestilling snr. 463)

Table 3 – Regulated Substances of Concern

NOTE: Any substance below the threshold level does not have to be reported. This threshold level is 0.1% (by weight) unless otherwise specified in the Notes column.

<u>Regulated Substance of Concern</u>	<u>CAS Number</u>	<u>Notes</u>
acrylic acid (acroleic acid) (propenoic acid)	79-10-7	Irritant and corrosive to skin. Toxic by inhalation. May polymerize explosively.
5-allyl-1,3-benzodioxole (safrole) (4-allyl-1,2-methylenedioxybenzene)	94-59-7	Applies if substance is processed, not if it is used as an article.
4-amino-3-fluorophenol	399-95-1	Applies if substance is processed, not if it is used as an article.
ammonia-emitting substances (ammonia separation substance)	7664-41-7	
antimony	7440-36-0	Flame-retarding agent.



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Regulated Substance of Concern	CAS Number	Notes
1,2-benzenedicarboxylic acid, dihexyl ester	84-75-3	Plasticizer.
benzo-tri-chloride (toluene trichloride; benzenyl trichloride; benzoic trichloride; phenyl chloroform)	98-07-7	Applies if substance is processed, not if it is used as an article.
binapacryl (Generic name for 2-sec-butyl-4,6-dinitrophenyl-3-methyl-2-butenolate)	485-31-4	Threshold: (gas) 0.2%. Threshold: (other) 0.5%. Applies if substance is processed, not if it is used as an article.
(((3,5-bis(1,1-dimethyl ethyl)-4-hydroxy phenyl) methyl) thio) acetic acid 2-ethyl hexyl ester	80387-97-9	Threshold: (gas) 0.2%. Threshold: (other) 0.5%. Applies if substance is processed, not if it is used as an article.
boron	7440-42-8	Metal boride, materials for semiconductors.
boron compounds	Group	Metal boride, materials for semiconductors.
bromine	7726-95-6	
brominated flame retardants (Exceptions: PBB and PBDE are banned)	Group	
bromomethylene	596-60-2	Applies if substance is processed, not if it is used as an article.
butyl benzyl phthalate	85-68-71	Plasticizer
captafol (cis-n-[1,1,2,2-(tetrachloroethyl)thio]-4-cyclohexene-1,2-dicarboximide) (difolatan)	2425-06-1	Applies if substance is processed, not if it is used as an article.
carbadox	6804-07-5	Applies if substance is processed, not if it is used as an article.
carbon disulfide (carbon bisulfide)	75-15-0	
carbonic dichloride, polymer with 4,4'-(1-methylethylidene)bis[2,6-dibromophenol] and phenol	94334-64-2	Brominated Flame Retardant
carbonic dichloride, polymer with 4,4'-(1-methylethylidene)bis[2,6-dibromophenol], 2,4,6-tribromophenyl ester	71342-77-3	Brominated Flame Retardant
1-chloro-2-bromoethane	107-04-0	
chlorocresol (meta-)	59-50-7	Biocide
chlorocresol (ortho-)	1570-64-5	Biocide
chlorophenyl chlorotolyl methane		Applies if substance is processed, not if it is used as an article.
chloroprene (β-chloroprene) (2-chlorobutadiene-1,3)	126-99-8	Residual in neoprene and neoprene-based adhesives. TLV: 10 ppm. NIOSH has recommended change to 1 ppm.
chlorosulfonated polyethylene Hypalon (DuPont) (polyethylene=CAS 9002-88-4)	6803-73-98	Synthetic rubber, resistant to ozone, oils, weather, solvents, abrasion.
chromium and chromium compounds (Not containing hexavalent chromium)	Multiple	See Table 1 for hexavalent chromium ban information.



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<u>Regulated Substance of Concern</u>	<u>CAS Number</u>	<u>Notes</u>
chromium, trivalent, chromate	246113-89-6	Banned only by Nissan Applies if substance is processed, not if it is used as an article.
coumadin	81-81-2	Threshold: (gas) 0.2%. Threshold: (other) 0.5%. Applies if substance is processed, not if it is used as an article.
Chloroprene Rubber (CR) Neoprene 1,3-butadiene, 2-chloro-, homopolymer	9010-98-4	Adhesives and hose material
CSM ethene (ethylene) , homopolymer, chlorinated, chlorosulfonated	68037-39-8	Hose material.
cyanide	151-50-8	Plating.
Cyclohexasiloxane, dodecamethyl-	540-97-6	Silicone material
DBCP (1,2-dibromo-3-chloropropane)	96-12-8	Applies if substance is processed, not if it is used as an article.
DCHP, 1,2-benzenedicarboxylic acid, dicyclohexyl ester	84-61-7	Plasticizer.
DEP, diethyl phthalate, [ethyl phthalate] [1,2-benzenedicarboxylic acid, diethyl ester]	84-66-2	Restriction not limited to listed compound.
DHP, 1,2-benzenedicarboxylic acid, diheptyl ester	3648-21-3	
DHTDMAC	61789-80-8	Surface-active agent. Softener
diazo-methane (azimethylene)	334-88-3	Applies if substance is processed, not if it is used as an article.
1,4-dichloro-2-butene	764-41-0	Applies if substance is processed, not if it is used as an article.
1,2-dichloroethane (ethylene dichloride) (Dutch oil)	107-06-2	Applies if substance is processed, not if it is used as an article.
DIDP, 1,2-benzenedicarboxylic acid, diisodecyl ester	26761-40-0	Plasticizer.
diethylene glycol dimethyl ether (di-glyme) (diglycol methyl ether)	111-96-6	Threshold: 0.5%.
di(2-ethylhexyl)amine (dioctylamine)	106-20-7 20830-75-5	
diethylsulfate (ethyl sulfate)	64-67-5	Applies if substance is processed, not if it is used as an article.
dimethyl-carbamonyl chloride (dimethylcarbamoyl chloride) (dimethylcarbamyl chloride)	79-44-7	Applies if substance is processed, not if it is used as an article.
1,1-dimethyl hydrazine	57-14-7	Applies if substance is processed, not if it is used as an article.
1,2-dimethyl hydrazine	540-73-8	Applies if substance is processed, not if it is used as an article.
dimethyl phthalate	131-11-3	Restriction not limited to listed compound
dimethyl sulfate (methyl sulfate)	77-78-1	Applies if substance is processed, not if it is used as an article.
dimethyl sulfmoyl-chloride	13360-57-1	Applies if substance is processed, not if it is used as an article.



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dinoseb (2,4-dinitro-6-sec-butylphenol)	88-85-7	Threshold: (gas) 0.2%. Threshold: (other) 0.5%. Applies if substance is processed, not if it is used as an article.
dinoseb salts and esters	Group	Threshold: (gas) 0.2%. Threshold: (other) 0.5%. Applies if substance is processed, not if it is used as an article.
dinoterb	1420-07-1	Threshold: (gas) 0.2%. Threshold: (other) 0.5%. Applies if substance is processed, not if it is used as an article.
dinoterb salts and esters	Group	Threshold: (gas) 0.2%. Threshold: (other) 0.5%. Applies if substance is processed, not if it is used as an article.
DINP 1,2-benzenedicarboxylic acid, diisononyl ester	28553-12-0	Plasticizer.
dipentene (cinene; limonene, inactive; <i>dl-p</i> -mentha-1,8-diene; cajeputene).	138-86-3 5989-27-5	Applies if concentration >1%
1,2-diphenyl hydrazine	122-66-7	Applies if substance is processed, not if it is used as an article.
Disperse Blue 77	20241-76-3	Dye
n-DOP di-n-octyl phthalate di(2-ethylhexyl) phthalate	117-84-0	Restriction not limited to listed compound. Plasticizer.
DPRP (1,2-benzenedicarboxylic acid, dipropyl ester)	131-16-8	
DSDMAC	107-64-2	Surface-active agent. Rinsing agent.
DTDMAC	68783-78-8	Surface-active agent. Vehicle care products.
ECO oxiranemethanol	556-52-5	Hose material.
EDB ethylene dibromide (1,2-dibromo ethane) (ethylene bromide)	106-93-4	Applies if substance is processed, not if it is used as an article.
epibromohydrin	3132-64-7	
erionite	12510-42-8	Applies if substance is processed, not if it is used as an article.
erionite fiber	66733-21-9	
ethane thio-amide	63-55-5	Applies if substance is processed, not if it is used as an article.
ethyleneimine	151-56-4	Applies if substance is processed, not if it is used as an article.
ethylene glycol dimethyl ether	110-71-4	Reporting Threshold: 0.5%
ethylene oxide	75-21-8	Applies if substance is processed, not if it is used as an article.



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2-ethylhexylamine di (2-ethylhexyl)amine	104-75-6 106-20-7	Restriction not limited to listed compound.
fluorine/fluorine compounds	7782-41-4	Fluorine agent of organic compound.
glutaric aldehyde (glutaraldehyde)	111-30-8	Irritant.
n-hexane	110-54-3	Solvent. Threshold: 1% Flammable, dangerous fire risk.
hydrazine bis (3-carboxy-4-hydroxy benzene sulfonate)		Applies if substance is processed, not if it is used as an article.
hydrogen fluoride hydrofluoric acid (HF)	7664-39-3	Pickling, etching. Additive in phosphating agents.
hydrogen chloride (HCl)	7647-01-0	
2-imidazolidine-thione (ethylene thiourea)	96-45-7	Threshold: (gas) 0.2%. Threshold: (other) 0.5%. Applies if substance is processed, not if it is used as an article.
isodrin (an isomer of aldrin) (generic name for 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-1,4-endo,endo-5,8-dimethanonaphthalene).	465-73-6	Applies if substance is processed, not if it is used as an article.
MDI (diphenylmethane-4,4'-diisocyanate) methylene-bis-phenyl isocyanate	101-68-8	Used in preparation of polyurethane resin and spandex fibers; and bonding rubber to rayon and nylon.
MEK methyl ethyl ketone (2-butanone)	78-93-3	Solvent.
2-methoxypropylacetate-1	70657-70-4	Threshold: 0.5%. Paint solvent.
methyl azoxymethyl acetate	592-62-1	Applies if substance is processed, not if it is used as an article.
methyl-n-butyl ketone (propylacetone) (2-hexanone)	591-78-6	Requires permission for use in USA & Canada.
n-methyl-n'-nitro-n-nitroso guanidine	70-25-7	Threshold: 1%. Applies if substance is processed, not if it is used as an article.
Mixed mono and diamides of an organic acid. Trietanol amine salt of a substituted organic acid. Trietanol amine salt of tricarboxylic acid.		
molybdenum	7439-98-7	
5-nitro acenaphthene	602-87-9	Applies if substance is processed, not if it is used as an article.
o-nitroanisole	91-23-6	Applies if substance is processed, not if it is used as an article.
nitrofen	1836-75-5	Applies if substance is processed, not if it is used as an article.
2-nitronaphthalene	581-89-5	Applies if substance is processed, not if it is used as an article.



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2-nitropropane	79-46-9	Applies if substance is processed, not if it is used as an article.
Pigment Red 5	6410-41-9	Pigment (paint, ink)
Pigment Red 187	59487-23-9	Pigment (resin, ink, fabric, paint)
Pigment Orange 5	3468-63-1	Pigment (resin, ink, fabric, paint)
Pigment Red 4	2814-77-9	Pigment (paint, ink)
potassium bromate	7758-01-2	Applies if substance is processed, not if it is used as an article.
1,3 propane sultone (propane sultone) (1,2-oxathrolane; 2,2-dioxide; 3-hydroxy-1-propane-sulphonic acid sultone; 1,3-propane sultone).	1120-71-4	Applies if substance is processed, not if it is used as an article.
β -propiolactone	57-57-8	Applies if substance is processed, not if it is used as an article.
propylene imine	75-55-8	Applies if substance is processed, not if it is used as an article.
sodium nitrite	7632-00-00	
tellurium and its compounds	Group 13494-80-9	Additive for free-cutting steel.
TGIC 1,3,5-triglycidyl isocyanurate	2451-62-9	Powder paints. Applies if substance is processed, not if it is used as an article.
toluene-2,4-diammonium sulphate	65321-67-7	Applies if substance is processed, not if it is used as an article.
toluene diisocyanates	Group	Hardeners
triethylene glycol dimethyl ether	112-49-2	Threshold: 0.50%.
urethane (ethylcarbamate)	51-79-6	Applies if substance is processed, not if it is used as an article.
vinyl chloride	75-01-4	
xylene (dimethylbenzene)	1330-20-7	
zinc (fume, dust or pigments)	7440-66-6	Applies if substance is processed, not if it is used as an article.

6.0 Related Documents

- USEPA Regulatory Statutes
- Country Regulatory Statutes (Including but not limited to: United States, Canada, China, Japan, European Union, U.K., Philippines, Australia, New Zealand).
- Automotive Specifications



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7.0 Revision History

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001	3/28/13	NA	New issue.
002	5/31/17	K Conkright	Update to Banned and Controlled Substance List