

TI Restricted Chemicals and Materials List

Originator: Tim Yeakley	Date: 02/28/01	Engineer: Tim Yeakley	Date: 02/28/01
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Chemical or Material	Manufacturers threshold based on customer requirements	Industry & Regulatory References ¹
Arsenic & compounds	Except materials used as dopants in SC silicon die manufacturing, in metal alloys as an impurity at $\leq 200\text{ppm}$ and as Gallium Arsenide substrate.	EU 76/769/EEC
Asbestos	No exceptions	IEC 62474, EU 76/769/EEC
Azo-based materials (Table A)	No exceptions	IEC 62474, EU 76/769/EEC
Beryllium & compounds	Impurities & metal alloys $\leq 500\text{ ppm}$, Beryllium Oxide substrates are exempt.	IEC 62474
Select Bromine Compounds (Table B)	$\leq 0.09\%$ (900ppm) except when otherwise specifically approved by TI and/or defined by regulation.	IEC 62474
- PBB's and PBDE's	$\leq 0.1\%$ (1000ppm)	IEC 62474, EU 2002/95/EC
Cadmium & compounds (Table C)	$\leq 5\text{ ppm}$ for plastic materials. See Note 2 for Packing Materials. $\leq 100\text{ ppm}$ for all other materials, other RoHS exemptions may apply.	IEC 62474, EU 2002/95/EC & 76/769/EEC
Chlorinated paraffins (Table T)	No Exceptions for C10-13, Cl $\geq 50\%$	IEC 62474, EU REACH
Chromium VI & Chromium compounds (Table D)	$\leq 10\text{ ppm}$ for Materials is allowable. See Note 2 for Packing Materials.	IEC 62474, EU 2002/95/EC
Class I & II Ozone Depleting Substances (ODS's) (Table S)	Except when used in closed loop refrigeration systems and phased out of use in accordance with the Montreal Protocol	IEC 62474, Montreal Protocol
Creosote compounds (Table E)	No exceptions	EU 76/769/EEC
Select Chlorine compounds (Table F)	Must not exceed 0.09% (900ppm) except when specifically approved by TI and/or defined by regulation. PVC is exempt for shipping tubes and retail packaging for TI's consumer products.	Various
Ethylene Glycol Ethers (Table G)	No exceptions	Semiconductor Industry
Select Fluorine compounds (Table H)	Except for PFOS and PFOA additives used in photoresists and anti-reflective coatings. No exceptions for new uses.	Various
Lead & compounds (Table I)	$\leq 0.1\%$ by weight (1,000ppm) of homogeneous materials. $\leq 0.01\%$ by weight (100ppm) of lead in plastics. Exceptions and EU RoHS exemptions may apply, in particular: 5(a) Lead in glass of cathode ray tubes 7(a) Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead), 7(b) Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signaling, transmission and network management for telecommunication, 7(c)-I Electric and electronic components containing lead in glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectric devices, or in a glass or ceramic matrix compound 14: Lead in solders consisting of more than two elements for the connection between the pins and the package of microprocessors with a lead content of more than 80 % and less than 85 % by weight, 15: Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit Flip Chip packages, - See Note 2 for Packing Materials	IEC 62474, EU Directive 2002/95/EC; China MII Methods; Korea RoHS; Japan J-MOSS; 76/769/EEC
Mercury & compounds (Table J)	$\leq 5\text{ ppm}$ for materials is allowable. See Note 2 for Packing Materials.	IEC 62474, EU 2002/95/EC
Select Phthalate compounds (Table K)	$\leq 0.1\%$ by weight (1,000ppm) of homogeneous materials. $\leq 0.1\%$ by weight (1,000ppm) of plasticized material (DINP, DIDP, DNO)	IEC 62474, EU 76/769/EEC, 2009/425/EC
Polychlorinated biphenyls & naphthalene's (PCB's & PCN's)	PCB's No exceptions PCN's - Where Cl ≥ 3 , No exceptions	IEC 62474, Class 1 Chemical Substance (Japanese Law)
Radioactive Substances	No exceptions for Intentionally added elements.	IEC 62474
Select Trivalent Organotin compounds (Table L)	Except for use in heat seal film connector used in TI's consumer electronic products.	IEC 62474, R Class 1 Chemical Substance (Japanese Law)
Pesticides, Herbicides (Table N)	No exceptions	POP's Convention
Miscellaneous Substances - Inc. Short Chained Chlorinated Paraffin's (Table O)	Not intentionally added	Various, REACH SVHC
Select Perfluorinated & hydrofluorocarbon compounds (Table P)	Except when used in closed loop refrigeration systems or for use in manufacturing when residues will not remain on TI's final product.	IEC 62474, EU Reg. No. 842/2006
Select Polycyclic aromatic Hydrocarbons (Table Q)	$\leq 0.1\%$ by weight (1,000ppm) of homogeneous materials.	IEC 62474, German Safety Mark
Select halogenated dioxins and furans (Table R)	No exceptions	IEC 62474, Class 1 Chemical Substance (Japanese Law)

Note 1: Regulatory references are not meant to be all inclusive but representative of the regulations driving TI's decisions. The industry reference is the International Electrotechnical Commission (IEC) standard IEC 62474 Material Declaration for Products of and for the Electrotechnical Industry.

Note 2: Per Regulatory requirements, the sum of Lead, Mercury, Hexavalent Chromium and Cadmium can not exceed 100ppm. Cadmium must not exceed 5 ppm.

TABLE A Azo-Based Materials	
(This is the complete listing of compounds in the category considered Banned when the chemical will become part of the TI product)	
CAS#	Chemical or Material Name
1689-82-3	2-Hydroxyazobenzene
134-32-7	1-Naphthylamine & salts
137-17-7	2,4,5-Trimethylaniline & salts
615-05-4	2,4-Diaminoanisole & salts
95-80-7	2,4-Diaminotoluene (Toluene-2,4-Diamine) & salts
99-55-8	2-Amino-4-nitrotoluene & salts also 5-Nitro-o-toluidine
91-59-8	2-Naphthylamine & salts; Alpha-Naphthylamine
119-93-7	3,3'-Dichlorobenzidine & salts
91-94-1	3,3'-Dichlorobenzidine & salts
838-88-0	3,3'-Dimethyl-4,4' diaminodiphenylmethane & salts
119-90-4	3,3'-Dimethoxybenzidine & salts
101-77-9	4,4'-Diaminodiphenylmethane & salts
101-14-4	4,4'Methylenebis-(2-chloroaniline) or 3,3-Dichloro 4,4-Diaminodiphenyl Methane & salts
101-80-4	4,4'-Oxydianiline & salts
139-65-1	4,4'-Thiodianiline (4,4'-thiobisbenzenamine) & salts
92-67-1	4-Aminobiphenyl and 4-Aminodiphenly & salts
95-69-2	4-Chloro-o-toluidine (4-chloro-2-methylaniline) & salts
92-87-5	Benzidine and its salts and the derivatives
27417-40-9	N,N-Ditolyl-p-Phenylenediamine
97-56-3	o-Aminoazotoluene & salts
90-04-0	o-Anisidine
95-53-4	o-Toluidine & salts
106-47-8	p-Chloroaniline & salts
120-71-8	6-methoxy-m-toluidine (p-cresidine)
60-09-3	4-Aminoazobenzene; 4-Phenylazoaniline
2429-74-5	C.I. Direct Blue 15
123-77-3	Diazeno-1,2-dicarboxamide (C,C'-azodi(formamide))
693-98-1	2-methylimidazole
1072-63-5	1-vinylimidazole

TABLE B Brominated Flame Retardants and Brominated Compounds	
(This is the complete listing of compounds in the category considered Banned when the chemical will become part of the TI product)	
CAS#	Chemical or Material Name
25637-99-4 or 3194-55-6	Hexabromocyclododecane or 1,2,5,6,9,10-Hexabromocyclododecane (HBCDD), & (α-HBCDD, β-HBCDD, γ-HBCDD)

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65701-47-5	rel-(1R,2S,5R,6S,9S,10R)-1,2,5,6,9,10-Hexabromocyclododecane
4736-49-6	rel-(1R*,2S*,5R*,6S*,9R*,10S*)-1,2,5,6,9,10-hexabromocyclododecane
138257-18-8	(1R,2R,5R,6S,9R,10S)-1,2,5,6,9,10-Hexabromocyclododecane
138257-19-9	(1R,2S,5S,6R,9S,10S)-1,2,5,6,9,10-Hexabromocyclododecane
169102-57-2	(1R,2S,5S,6S,9S,10R)-1,2,5,6,9,10-Hexabromocyclododecane
678970-15-5	(1R,2R,5S,6R,9R,10S)-1,2,5,6,9,10-Hexabromocyclododecane
678970-16-6	(1R,2S,5R,6S,9S,10S)-1,2,5,6,9,10-Hexabromocyclododecane
678970-17-7	(1R,2R,5R,6S,9S,10R)-1,2,5,6,9,10-Hexabromocyclododecane
540-51-2	2-bromoethanol
75-25-2	Bromoform
106-93-4	1,2-dibromoethane
1867-11-4	2-bromoethanol
25376-38-9	2,3,4-tribromophenol
106-94-5 (or)	1-bromopropane
26446-77-5	
75-26-3	2-bromopropane
31780-26-4	Poly-dibromo-styrene
5292-43-3	Tert-butyl 2-bromoacetate
593-60-2	Vinylbromide (Bromoethylene)
608-71-9	Pentabromophenol
76253-60-6	Dichloro[(dichlorophenyl)methyl]methylbenzene (DBBT)
79-27-6	Acetylene tetrabromide
87-82-1	Hexabromobenzene
96-32-2	Methyl bromoacetate
42757-55-1	TBBS bis-(2,3-dibromo-propyl-ether)
1529-68-6	1,2,3,4-tetrabromobutane
30178-92-8	Tetrabromocyclododecane
30262-03-4	Octabromohexadecane
608-90-2	Pentabromobenzene
1837-91-8	1,2,3,4,5,6-hexabromo-cyclohexane
36511-36-1	1,5-dibromopentenediol
58965-66-5	Tetra-decabromo-diphenoxy-benzene
75-95-6	Pentabromoethane
79-28-7	Tetrabromoethylene
85-22-3	Pentabromoethylbenzene
99688-47-8	Bromobenzylbromotoluene (DBBT)
134237-50-6	Alpha-hexabromocyclododecane
134237-51-7	Beta-hexabromocyclododecane
134237-52-8	Gamma-hexabromocyclododecane
99788-47-8	Monomethyldibromo Diphenyl Methane
1163-19-5	Bis(pentabromophenyl)ether (DecaBDE)
69882-11-7	Poly(2,6-dibromo-phenylene oxide)
58965-66-5	Tetra-decabromo-diphenoxy-benzene
37853-59-1	1,2-Bis(2,4,6-tribromo-phenoxy) ethane

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79-94-7	3,5,3',5'-Tetrabromo-bisphenol A (TBBPA)
30496-13-0	TBBA, unspecified
40039-93-8	TBBA-epichlorhydrin oligomer
70682-74-5	TBBA-TBBA-diglycidyl-ether oligomer
28906-13-0	TBBA carbonate oligomer
94334-64-2	TBBA carbonate oligomer, phenoxy end capped
71342-77-3	TBBA carbonate oligomer, 2,4,6-tribromo-phenol terminated
32844-27-2	TBBA-bisphenol A-phosgene polymer
139638-58-7	Brominated epoxy resin end-capped with tribromophenol
135229-48-0	Brominated epoxy resin end-capped with tribromophenol
21850-44-2	TBBA-(2,3-dibromo-propyl-ether)
4162-45-2	TBBA bis-(2-hydroxy-ethyl-ether)
25327-89-3	TBBA-bis-(allyl-ether)
37853-61-5	TBBA-dimethyl-ether
39635-79-5	Tetrabromo-bisphenol S
615-58-7	2,4-Dibromo-phenol
118-79-6	2,4,6-tribromo-phenol
608-71-9	Pentabromo-phenol
3278-89-5	2,4,6-Tribromo-phenyl-allyl-ether
26762-91-4	Tribromo-phenyl-allyl-ether, unspecified
55481-60-2	Bis(methyl)tetrabromo-phthalate
26040-51-7	Bis(2-ethylhexyl)tetrabromo-phthalate
20566-35-2	2-Hydroxy-propyl-2-(2-hydroxy-ethoxy)-ethyl-TBP
75790-69-1	TBPA, glycol-and propylene-oxide esters
32588-76-4	N,N'-Ethylene -bis-(tetrabromo-phthalimide)
52907-07-0	Ethylene-bis(5,6-dibromo-norbornane-2,3-dicarboximide)
3234-02-4	2,3-Dibromo-2-butene-1,4-diol
3296-90-0	Dibromo-neopentyl-glycol
96-13-9	Dibromo-propanol
36483-57-5	Tribromo-neopentyl-alcohol
57137-10-7	Poly tribromo-styrene
61368-34-1	Tribromo-styrene
171091-06-8	Dibromo-styrene grafted PP
68955-41-9	Bromo-/Chloro-paraffins
82600-56-4	Bromo-/Chloro-alpha-olefin
593-60-2	Vinylbromide
52434-90-9	Tris-(2,3-dibromo-propyl)-isocyanurate
49690-63-3	Tris(2,4-Dibromo-phenyl) phosphate
19186-97-1	Tris(tribromo-neopentyl) phosphate
125997-20-8	Chlorinated and brominated phosphate ester
87-83-2	Pentabromo-toluene
38521-51-6	Pentabromo-benzyl bromide
68441-46-3	1,3-Butadiene homopolymer,brominated
59447-55-1	Pentabromo-benzyl-acrylate, monomer

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59447-57-3	Pentabromo-benzyl-acrylate, polymer
84852-53-9	Decabromo-diphenyl-ethane
59789-51-4	Tribromo-bisphenyl-maleinimide
155613-93-7	Octabromo-1,1,3-trimethyl-1-phenylindane (FR-1808)
31454-48-5	Tetrabromo-cyclo-octane
3322-93-8	1,2-Dibromo-4-(1,2 dibromo-ethyl)-cyclo-hexane
25357-79-3	Tetrabromophthalic acid Na salt
632-79-1	Tetrabromo phthalic anhydride
74-97-5	Bromochloromethane
75-61-6	Dibromodifluoromethane
3296-90-0	2,2-bis(bromomethyl)propane-1,3-diol (BMP)
36483-57-5	2,2-dimethylpropan-1-ol, tribromo derivative (TBNPA)
1522-92-5	3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA)
96-13-9	2,3-dibromo-1-propanol (2,3-DBPA)
79-94-7	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol
37853-59-1	1,1'-[ethane-1,2-diylbisoxy]bis[2,4,6-tribromobenzene]
26040-51-7	Bis(2-ethylhexyl) tetrabromophthalate
-----	bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof

TABLE C Cadmium and Cadmium Compounds	
(This list is not a complete list but is meant to provide examples of compounds banned by manufacturing)	
CAS#	Chemical or Material Name
7440-43-9	Cadmium
1306-19-0	Cadmium Oxide
1306-23-6	Cadmium Sulfide
10108-64-2	Cadmium Chloride
10124-36-4 or	Cadmium Sulfate
31119-53-6	
7790-79-6	Cadmium Fluoride
513-78-0	Cadmium Carbonate
21041-95-2	Cadmium Hydroxide
10022-68-1 or	Cadmium nitrate
10325-94-7	

TABLE D	Chromium VI and Chromium VI Compounds
(This list is not a complete list but is meant to provide examples of compounds banned by manufacturing)	
CAS#	Chemical or Material Name
1333-82-0	Chromium (VI) Oxide
10294-40-3	Barium Chromate
13765-19-0	Calcium Chromate
7758-97-6	Lead (II) Chromate
7775-11-2	Sodium Chromate
10588-01-9 or	Sodium Dichromate
7789-12-0	
7778-50-9	Potassium Dichromate
7789-00-6	Potassium Chromate
7738-94-5	Chromic Acid
13530-68-2	Dichromic Acid
13530-65-0	Zinc Chromate
24613-89-6	Dichromium tris(chromate)
49663-84-5	Pentazine chromate octahydroxide
11103-86-9	Zinc Potassium Chromate
7789-06-2	Strontium chromate
7789-09-5	Ammonium dichromate

TABLE E	Cresote Compounds
(This list is not a complete list but is meant to provide examples of compounds banned by manufacturing)	
CAS#	Chemical or Material Name
65996-93-2	Coal tar acids and coal tar pitches/oils-Coal Tar Pitch Volatiles
70321-79-8	Coal tar acids and coal tar pitches/oils-Creosote Oil, High-Boiling Distillate
70321-80-1	Coal tar acids and coal tar pitches/oils-Creosote Oil, Low-Boiling Distillate
8001-58-9	Coal tar acids and coal tar pitches/oils-Creosote, Coal Tar
8007-45-2	Coal tar acids and coal tar pitches/oils-Coal Tar
8021-39-4	Coal tar acids and coal tar pitches/oils-Creosote, Wood
90640-84-9	Coal tar acids and coal tar pitches/oils-Creosote Oil, Acenaphthene Fraction
90640-85-0	Coal tar acids and coal tar pitches/oils-Creosote Oil, Acenaphthalene Fraction, Acenaphthalene-Free
61789-28-4	Coal tar acids and coal tar pitches/oils-Creosote Oil
266-028-2	Pitch, coal tar, high temp
92061-94-4	Residues (coal tar), pitch distn.
91995-52-5	Distillates (coal tar), pitch, pyrene fraction
91995-42-5	Distillates (coal tar), heavy oils, pyrene fraction
90640-86-1	Distillate (coal tar), heavy oils
119-47-1	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol

TABLE F Select Chlorine Compounds

(This is the complete listing of compounds in the category considered Banned when the chemical will become part of the TI product)

CAS#	Chemical or Material Name
156-59-2	cis-1,2-Dichloroethylene (1,2-Dichloroethylene)
107-06-2	1,2-Dichloroethane (Ethylene Dichloride)
107-30-2	Methyl Chloromethyl Ether (Chloromethyl Methyl Ether)
127-18-4	Tetrachloroethylene (1,1,2,2-Tetrachloroethylene)
630-20-6	1,1,1,2-Tetrachloroethane
67-66-3	Trichloromethane (Chloroform)
67-72-1	Hexachloroethane
74-97-5	Chlorobromomethane
75-01-4	Vinyl Chloride (monomer)
9002-86-2	Polyvinyl chloride
75-09-2	Dichloromethane (Methylene Chloride)
75-35-4	1,1-Dichloroethylene
76-01-7	Pentachloroethane
79-00-5	1,1,2-Trichloroethane
79-01-6	Trichloroethylene (TCE or Trichloroethene)
79-34-5	1,1,2,2-Tetrachloroethane
87-68-3	Hexachlorobutadiene
87-86-5	Pentachlorophenol (PCP) Salts and Compounds or Esters
131-52-2	Sodium Pentachlorophenol (and others)
96-23-1	1,3-Dichloro-2-propanol
7646-79-9	Cobalt Dichloride
85535-84-8	Short Chain Chlorinated Paraffin's (C10-C13)
57-74-9	Chlordanes/ chordane
27304-13-8	Chlordanes/ oxychlordane
26880-48-8	Chlordanes/ oxychlordane
39765-80-5	Chlordanes/ trans-nonachlor
29555-44-0	Chlordanes/ trans-nonachlor
85535-85-9	Chloroparaffins-C12-60% Chlorine, C23-43% Chlorine (Chlorinated paraffins) Alkanes, C14-17, Chloro
85535-86-0	Chloroparaffins-C12-60% Chlorine, C23-43% Chlorine (Chlorinated paraffins) Alkanes, C18-28, Chloro
61788-76-9	Chloroparaffins-C12-60% Chlorine, C23-43% Chlorine (Chlorinated paraffins) Alkanes, Chloro
108171-26-2	Chloroparaffins-C12-60% Chlorine, C23-43% Chlorine (Chlorinated paraffins) Chlorinated Paraffins (C12, 60% Chlorine)
108171-27-3	Chloroparaffins-C12-60% Chlorine, C23-43% Chlorine (Chlorinated paraffins) Chlorinated Paraffins (C23, 43% Chlorine)
85422-92-0	Chloroparaffins-C12-60% Chlorine, C23-43% Chlorine (Chlorinated paraffins) Paraffin Oils and Hydrocarbon Oils, Chloro

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56509-64-9	Chloroparaffins-C12-60% Chlorine, C23-43% Chlorine (Chlorinated paraffins) Paraffin waxes and hydrocarbon waxes, chlorinated (C23, 43%)
56730-95-1	Chloroparaffins-C12-60% Chlorine, C23-43% Chlorine (Chlorinated paraffins) Paraffin waxes and hydrocarbon waxes, chlorinated (C23, 43%)
63449-39-8	Chloroparaffins-C12-60% Chlorine, C23-43% Chlorine (Chlorinated paraffins) Paraffin waxes and hydrocarbon waxes, Chloro
8029-39-8	Chloroparaffins-C12-60% Chlorine, C23-43% Chlorine (Chlorinated paraffins) Paraffin waxes and hydrocarbon waxes, Chloro
97553-43-0	Chloroparaffins-C12-60% Chlorine, C23-43% Chlorine (Chlorinated paraffins) Paraffins (Petroleum), Normal C10, Chloro
505-60-2	Dichlorodiethyl sulfide (Mustard Gas)
51-75-2	Diethylamine, 2,2'-dichloro-N-methyl- (Nitrogen mustard) (Mechlorethamine)
96-18-4	1,2,3-Trichloropropane
548-62-9	C.I. Basic Violet 3
81161-70-8	Monomethyldichloro Diphenyl Methane
74-87-3	Chloromethane
71011-12-6	Alkanes, C12-13, chloro
38051-10-4	Tetrakis(2-chloroethyl)dichloroisopentyldiphosphate
66108-37-0	Tris(2,3-dichloro-1-propyl)phosphate
----	Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™)
1372804-76-6	Alkanes, C14-16, chloro
198840-65-2	Tetradecane, chloro derivs.
85535-85-9	Alkanes, C14-17, chloro
-----	di-, tri- and tetrachlorotetradecane
133-49-3	Pentachlorothiophenol (PCPT)
87-68-3	Hexachlorobutadiene (HCBD)
80-07-9	bis(4-chlorophenyl) sulphone
-----	Perchlorates

TABLE G Select Ethylene Glycol Ethers

(This is the complete listing of compounds in the category considered Banned when the chemical will become part of the TI product)

CAS#	Chemical or Material Name
110-80-5 or 96231-36-6	Ethylene Glycol Ethyl Ether
111-15-9	Ethylene Glycol Monoethyl Ether Acetate
109-86-4	Ethylene Glycol Methyl Ether
110-49-6	Ethylene Glycol Methyl Ether Acetate
111-96-6	Diethylene Glycol Dimethyl Ether
112-49-2	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)
110-71-4	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)

TABLE H Select Fluorine and Perfluorinated Compounds

(This list is not a complete list but is meant to provide examples of compounds banned by manufacturing)

CAS#	Chemical or Material Name
62-74-8	Sodium Fluoroacetate
640-19-7	Fluoroacetamide (Monofluoroacetamide)
144-49-0	Monofluoroacetate (Acetic Acid, fluoro-)
376-06-7	Vinyl Fluoride
1763-23-1	Perfluorooctanesulfonic acid (PFOS)
307-35-7	Perfluorooctanesulfonyl fluoride (POSF)
335-67-1 or 68141-02-6	Pentadecafluorooctanoic acid (PFOA) or Perfluorooctanoic acid
3825-26-1	Ammoniumpentadecafluorooctanate or Pentadecafluorooctanoate (APFO)
75-02-5	Pentacosafuorotridecanoic acid
72629-94-8	Tricosafuorododecanoic acid
307-55-1	Henicosafuoroundecanoic acid
2058-94-8	Heptacosafuorotetradecanoic acid
3825-26-1	Pentadecafluorooctanoic acid ammonium salt
335-95-5	Sodium perfluorooctanoate
2395-00-8	Potassium perfluorooctanoate
335-93-3	Silver perfluorooctanoate
335-66-0	Perfluorooctanoyl fluoride
376-27-2	Methyl perfluorooctanoate
3108-24-5	Ethyl perfluorooctanoate
375-95-1	Perfluorononan-1-oic-acid
21049-39-8	Sodium heptadecafluorononanoate
4149-60-4	Nonanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluoro-, ammonium salt
335-76-2	Nonadecafluorodecanoic acid
3830-45-3	Decanoic acid, nonadecafluoro-, sodium salt
3108-42-7	Ammonium nonadecafluorodecanoate
2991-51-7	Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt
306975-62-2	2-Propenoic acid, 2-methyl-, dodecyl ester, polymers with 2-[methyl[(perfluoro-C4-8-alkyl)-sulfonyl]amino]ethyl acrylate and vinylidene chloride
-----	Perfluorohexane-1-sulphonic acid and its salts PFHxS
-----	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides
67118-55-2	Potassium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionate
13252-13-6	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid
62037-80-3	Ammonium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propanoate
2062-98-8	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionyl fluoride
75579-40-7	Propanoic acid, 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)-, (-)-
75579-39-4	Propanoic acid, 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)-, (+)-
375-73-5	Perfluorobutane sulfonic acid (PFBS) or 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonic acid
68259-10-9	Ammonium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonate
29420-49-3	Potassium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonate

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194999-85-4	bis(4-t-butylphenyl)iodonium perfluorobutanesulfonate
220689-12-3	tetrabutyl-phosphonium nonafluoro-butane-1-sulfonate
503155-89-3	morpholinium perfluorobutanesulfonate
-----	1-(4-butoxy-1-naphthalenyl)tetrahydrothiophenium 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate
144317-44-2	Triphenylsulfanium perfluorobutane sulfonate
25628-08-4	N,N,N-triethylethanaminium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulfonate
507453-86-3	magnesium perfluorobutanesulfonate
131651-65-5	lithium perfluorobutanesulfonate
220133-51-7	dimethyl(phenyl)sulfanium perfluorobutanesulfonate
-----	reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine
-----	Perfluoroheptanoic acid and its salts
21049-36-5	potassium perfluoroheptanoate
20109-59-5	Sodium perfluoroheptanoate
375-85-9	Perfluoroheptanoic acid
6130-43-4	Ammonium perfluoroheptanoate
355-46-4	Perfluorohexanesulfonic acid
375-22-4	Perfluorobutanoic acid
2218-54-4	Sodium perfluorobutanoate
3107-18-4	Cyclohexanesulfonic acid, undecafluoro-, potassium salt
3871-99-6	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, potassium salt
3872-25-1	1-Pentanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,5-undecafluoro-, potassium salt
10495-86-0	Ammonium perfluorobutanoate
62037-80-3	Hexafluoropropylene oxide dimer acid ammonium salt
65530-61-2	Poly(difluoromethylene), α -fluoro- ω -[2-(phosphonooxy)ethyl]-
65530-62-3	Poly(difluoromethylene), α, α' -[phosphinicobis(oxy-2,1-ethanediyl)]bis[ω -fluoro-
65530-63-4	Ethanol, 2,2'-iminobis-, compd. with α -fluoro- ω -[2-(phosphonooxy)ethyl]poly(difluoromethylene) (2:1)
65530-64-5	Ethanol, 2,2'-iminobis-, compd. with α, α' -[phosphinicobis(oxy-2,1-ethanediyl)]bis[ω -fluoropoly(difluoromethylene)] (1:1)
65530-65-6	Poly(difluoromethylene), α -fluoro- ω -[2-[(1-oxooctadecyl)oxy]ethyl]-
65530-66-7	Poly(difluoromethylene), α -fluoro- ω -[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]-
65530-69-0	Poly(difluoromethylene), α -[2-[(2-carboxyethyl)thio]ethyl]- ω -fluoro-, lithium salt
65530-70-3	Poly(difluoromethylene), α, α' -[phosphinicobis(oxy-2,1-ethanediyl)]bis[ω -fluoro-, ammonium salt
65530-71-4	Poly(difluoromethylene), α -fluoro- ω -[2-(phosphonooxy)ethyl]-, monoammonium salt
65530-72-5	Poly(difluoromethylene), α -fluoro- ω -[2-(phosphonooxy)ethyl]-, diammonium salt
65530-74-7	Ethanol, 2,2'-iminobis-, compd. with α -fluoro- ω -[2-(phosphonooxy)ethyl]poly(difluoromethylene) (1:1)
65530-83-8	Poly(difluoromethylene), α -[2-[(2-carboxyethyl)thio]ethyl]- ω -fluoro-
65545-80-4	Poly(oxy-1,2-ethanediyl), α -hydro- ω -hydroxy-, ether with α -fluoro- ω -(2-hydroxyethyl)poly(difluoromethylene) (1:1)
65605-56-3	Poly(difluoromethylene), α -fluoro- ω -(2-hydroxyethyl)-, dihydrogen 2-hydroxy-1,2,3-propanetricarboxylate
65605-57-4	Poly(difluoromethylene), α -fluoro- ω -(2-hydroxyethyl)-, hydrogen 2-hydroxy-1,2,3-propanetricarboxylate

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65605-58-5	2-Propenoic acid, esters, 2-methyl-, dodecyl ester, polymer with α -fluoro- ω -[2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl]poly(difluoromethylene)
65605-59-6	2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with α -fluoro- ω -[2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl]poly(difluoromethylene) and N-(hydroxymethyl)-2-propenamide
65605-73-4	Poly(difluoromethylene), α -fluoro- ω -[2-[(1-oxo-2-propenyl)oxy]ethyl]-, homopolymer
65636-35-3	Ethanaminium, N,N-diethyl-N-methyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, methyl sulfate, polymer with 2-ethylhexyl 2-methyl-2-propenoate, α -fluoro- ω -[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]poly(difluoromethylene), 2-hydroxyethyl 2-methyl-2-propenoate and N-(hydroxymethyl)-2-propenamide
67584-52-5	Glycine, N-ethyl-N-[(undecafluoropentyl)sulfonyl]-, potassium salt
67584-53-6	Glycine, N-ethyl-N-[(tridecafluorohexyl)sulfonyl]-, potassium salt
67584-56-9	2-Propenoic acid, 2-[methyl[(undecafluoropentyl)sulfonyl]amino]ethyl ester
67584-57-0	2-Propenoic acid, 2-[methyl[(tridecafluorohexyl)sulfonyl]amino]ethyl ester
67584-58-1	1-Propanaminium, N,N,N-trimethyl-3-[(pentadecafluoroheptyl)sulfonyl]amino]-, iodide
67584-62-7	Glycine, N-ethyl-N-[(pentadecafluoroheptyl)sulfonyl]-, potassium salt
68140-18-1	Thiols, C4-10, γ - ω -perfluoro
68140-20-5	Thiols, C6-12, γ - ω -perfluoro
68156-01-4	Cyclohexanesulfonic acid, nonafluorobis(trifluoromethyl)-, potassium salt
68156-07-0	Cyclohexanesulfonic acid, decafluoro(trifluoromethyl)-, potassium salt
68187-25-7	Butanoic acid, 4-[[3-(dimethylamino)propyl]amino]-4-oxo-, 2(or 3)-[(γ - ω -perfluoro-C6-20-alkyl)thio] derivs.
68187-47-3	1-Propanesulfonic acid, 2-methyl-, 2-[[1-oxo-3-[(γ - ω -perfluoro-C4-16-alkyl)thio]propyl]amino] derivs., sodium salts
68188-12-5	Alkyl iodides, C4-20, γ - ω -perfluoro
68239-43-0	2-Propenoic acid, 2-methyl-, 2-ethylhexyl ester, polymer with α -fluoro- ω -[2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl]poly(difluoromethylene), 2-hydroxyethyl 2-methyl-2-propenoate and N-(hydroxymethyl)-2-propenamide
68259-08-5	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, ammonium salt
68259-09-6	1-Pentanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,5-undecafluoro-, ammonium salt
68259-38-1	Poly[oxy(methyl-1,2-ethanediyl)], α -[2-[ethyl[(tridecafluorohexyl)sulfonyl]amino]ethyl]- ω -hydroxy-
68259-39-2	Poly[oxy(methyl-1,2-ethanediyl)], α -[2-[ethyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl]- ω -hydroxy-
68310-17-8	Poly[oxy(methyl-1,2-ethanediyl)], α -[2-[ethyl[(undecafluoropentyl)sulfonyl]amino]ethyl]- ω -hydroxy-
68412-68-0	Phosphonic acid, perfluoro-C6-12-alkyl derivs.
68412-69-1	Phosphinic acid, bis(perfluoro-C6-12-alkyl) derivs.
68555-74-8	1-Pentanesulfonamide, 1,1,2,2,3,3,4,4,5,5,5-undecafluoro-N-(2-hydroxyethyl)-N-methyl-
68555-75-9	1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-N-methyl-
68555-81-7	1-Propanaminium, N,N,N-trimethyl-3-[(pentadecafluoroheptyl)sulfonyl]amino]-, chloride
68957-55-1	1-Propanaminium, N,N,N-trimethyl-3-[(undecafluoropentyl)sulfonyl]amino]-, chloride
68957-57-3	1-Propanaminium, N,N,N-trimethyl-3-[(undecafluoropentyl)sulfonyl]amino]-, iodide
68957-58-4	1-Propanaminium, N,N,N-trimethyl-3-[(tridecafluorohexyl)sulfonyl]amino]-, iodide
70225-16-0	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. with 2,2'-iminobis[ethanol] (1:1)
70225-17-1	1-Pentanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,5-undecafluoro-, compd. with 2,2'-iminobis[ethanol] (1:1)
70983-59-4	Poly(oxy-1,2-ethanediyl), α -methyl- ω -hydroxy-, 2-hydroxy-3-[(γ - ω -perfluoro-C6-20-alkyl)thio]propyl ethers
70983-60-7	1-Propanaminium, 2-hydroxy-N,N,N-trimethyl-, 3-[(γ - ω -perfluoro-C6-20-alkyl)thio] derivs., chlorides

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72623-77-9	Fatty acids, C6-18, perfluoro, ammonium salts
80010-37-3	Poly(difluoromethylene), α -fluoro- ω -[2-sulphoethyl]-
95144-12-0	Poly(difluoromethylene), α -fluoro- ω -[2-(phosphonoxy)ethyl]-, ammonium salt
97553-95-2	Thiocyanic acid, γ - ω -perfluoro-C4-20-alkyl esters
118400-71-8	Disulfides, bis(γ - ω -perfluoro-C6-20-alkyl)
123171-68-6	Poly(difluoromethylene), α -[2-(acetyloxy)-3-[(carboxymethyl)dimethylammonio]propyl]- ω -fluoro-, inner salt
135228-60-3	Hexane, 1,6-diisocyanato-, homopolymer, γ - ω -perfluoro-C6-20-alc.-blocked
148240-85-1	1,3-Propanediol, 2,2-bis[[(γ - ω -perfluoro-C4-10-alkyl)thio]methyl] derivs., phosphates, ammonium salts
148240-87-3	1,3-Propanediol, 2,2-bis[[(γ - ω -perfluoro-C6-12-alkyl)thio]methyl] derivs., phosphates, ammonium salts
180582-79-0	Sulfonic acids, C6-12-alkane, γ - ω -perfluoro, ammonium salts
1078142-10-5	1,3-Propanediol, 2,2-bis[[(γ - ω -perfluoro-C6-12-alkyl)thio]methyl] derivs., polymers with 2,2-bis[[(γ - ω -perfluoro-C10-20-alkyl)thio]methyl]-1,3-propanediol, 1,6-diisocyanato-2,2,4(or 2,4,4)-trimethylhexane, 2-heptyl-3,4-bis(9-isocyanatononyl)-1-pentylcyclohexane and 2,2'-(methylimino)bis[ethanol]
1078712-88-5	Thiols, C4-20, γ - ω -perfluoro, telomers with acrylamide and acrylic acid, sodium salts
1078715-61-3	1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-[2-[(γ - ω -perfluoro-C4-20-alkyl)thio]acetyl] derivs., inner salts
2738952-61-7	Acetamide, N-[3-(dimethylamino)propyl]-, 2-[(γ - ω -perfluoro-C4-20-alkyl)thio] derivs.
2742694-36-4	Acetamide, N-(2-aminoethyl)-, 2-[(γ - ω -perfluoro-C4-20-alkyl)thio] derivs., polymers with N1,N1-dimethyl-1,3-propanediamine, epichlorohydrin and ethylenediamine, oxidized
2744262-09-5	Acetic acid, 2-[(γ - ω -perfluoro-C4-20-alkyl)thio] derivs., 2-hydroxypropyl esters
-----	Perfluorohexanoic acid (PFHxA), its salts and related substances
-----	Perfluorocarboxylic acids (PFCA's) C9-C21 and related substances

TABLE I Lead and Lead Compounds

(This list is not a complete list but is meant to provide examples of compounds banned by manufacturing)

CAS#	Chemical or Material Name
7439-92-1	Lead
7446-14-2	Lead (II) sulfate
598-63-0	Lead (II) carbonate
1319-46-6	Lead hydrocarbonate
301-04-2	Lead acetate
6080-56-4	Lead (II) acetate, trihydrate
7446-27-7	Lead phosphate
12069-00-0	Lead selenide
1309-60-0	Lead (IV) oxide
1314-41-6	Lead (II,IV) oxide
1314-87-0	Lead (II) sulfide
1317-36-8	Lead (II) oxide
1344-36-1	Lead hydroxidcarbonate
12656-85-8	Lead chromate molybdate sulfate red (C.I. Pigment Red 104)
12060-00-3	Lead (II) titanate

15739-80-7	Lead sulfate, sulphuric acid, lead salt
12202-17-4	Lead sulphate, tribasic
1072-35-1	Lead stearate
1344-37-2	Lead Sulfochromate yellow
592-05-2	Lead Cyanide
6477-64-1	Lead depicrate
180129-52-6	Lead, [N'-[2-(dimethylamino-kN)ethyl]-N,N,N'-trimethyl-1,2-ethanediamine]bis(2,2,6,6-tetramethyl-3,5-heptanedionato-kO,kO')- (9CI)
150178-00-0	3,5-Heptanedione, 2,2,6,6-tetramethyl-, ion(1-), lead(2+)
17570-76-2	Lead(II) bis(methanesulfonate)
51404-69-4	Acetic acid, lead salt, basic
12578-12-0	Dioxobis(stearato)trilead
91031-62-8	Fatty acids, C16-18, lead salts
13814-96-5	Lead bis(tetrafluoroborate)
10099-74-8	Lead dinitrate
12626-81-2	Lead Titanium Zirconium Oxide
12065-90-6	Pentalead tetraoxide sulphate
8012-00-8	Pyrochlore, antimony lead yellow
68784-75-8	Silicic acid, barium salt, lead-doped
62229-08-7	Sulfurous acid, lead salt, dibasic
12141-20-7	Trilead dioxide phosphonate
78-00-2	Tetraethyl Lead
20837-86-9	Lead cynamidate
12036-76-9	Lead oxide sulfate (basic lead sulfate)

TABLE J Mercury and Mercury Compounds

(This list is not a complete list but is meant to provide examples of compounds banned by manufacturing)

CAS#	Chemical or Material Name
7439-97-6	Mercury
33631-63-9	Mercuric chloride
7487-94-7	Mercury (II) chloride
7783-35-9	Mercuric sulfate
10045-94-0	Mercuric nitrate
21908-53-2	Mercuric (II) oxide
1344-48-5	Mercuric sulfide
1335-31-5	Mercury (II) Cyanide Oxide

TABLE K Phthalate Compounds

(This is the complete listing of compounds in the category considered Banned when the chemical will become part of the TI product)

CAS#	Chemical or Material Name
3648-21-3	Diheptyl Phthalate

120-61-6	Dimethyl Terephthalate
117-84-0	Di-N-Octyl Phthalate (DNOP)
85-68-7	Butyl Benzyl Phthalate (BBP)
117-81-7	Di(2-ethylhexyl) Phthalate (DEHP) and Di-sec-octyl Phthalate (DOP)
84-74-2	Dibutyl Phthalate (DBP Ester)
84-61-7	Dicyclohexyl Phthalate
84-66-2	Diethyl Phthalate
84-75-3	Dihexyl Phthalate
84-69-5	Diisobutyl Phthalate
26761-40-0 or 68515-49-1	Diisodecyl Phthalate
28553-12-0 or 68515-48-0	Diisononyl Phthalate (DINP)
131-11-3	Dimethyl Phthalate
131-18-0	Dipentyl Phthalate
131-16-8	Dipropyl Phthalate
117-82-8	Bis(2-methoxyethyl) phthalate (DBP)
25550-51-0	Hexahydromethylphthalic anhydride
19438-60-9	Hexahydro-4-methylphthalic anhydride
48122-14-1	Hexahydro-1-methylphthalic anhydride
57110-29-9	Hexahydro-3-methylphthalic anhydride
84777-06-0	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear
605-50-5	Diisopentylphthalate (DIPP)
69011-06-9	[Phthalato(2-)]dioxotrilead (dibasic lead phthalate)
71850-09-4	Diisohexyl phthalate

TABLE L Organotin Compounds

(This is the complete listing of compounds in the category considered Banned when the chemical will become part of the TI product)

CAS#	Chemical or Material Name
56-35-9	Bis(tri-n-butyltin) oxide
1067-33-0	Dibutyltin diacetate
77-58-7	Dibutyltin dilaurate
78-04-6	Dibutyltin maleate
870-08-6	Diocetyl tin oxide
3648-18-8	Diocetyl tin dilaurate
4808-30-4	Tributyltin sulfide
7437-35-6	Bis (tributyltin) adipate
2155-70-6	Tributyltin methacrylate
1983-10-4	Tributyltin fluoride
56-36-0	Tributyltin acetate
1461-23-0	Tri-n-butyl tin bromide
962-89-0	Triphenyltin bromide

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639-58-7	Triphenyltin chloride
76-87-9	Triphenyltin hydroxide
1803-12-9	Triphenyltin N,N'-dimethyldithiocarbamate
379-52-2	Triphenyltin fluoride
900-95-8	Triphenyltin acetate
47672-31-1 or	Triphenyltin fatty acid salts (C=9-11)
18380-71-7	
18380-72-8	
94850-90-5	
7094-94-2	Triphenyltin chloroacetate
6454-35-9	Bis(tributyltin) fumalate
31732-71-5	Bis(tributyltin) 2,3-dibromosuccinate
3090-36-6	Tributyltin laurate
4782-29-0	Bis(tributyltin) phthalate
67772-01-4	Copolymer of alkyl acrylate, methyl methacrylate and tributyltin methacrylate(alkyl; C=8)
6517-25-5	Tributyltin sulfamate
14275-57-1	Bis(tributyltin) maleate
1461-22-9 or	Tributyltin chloride
7342-38-3	
668-34-8	Triphenyltin-Fentine
1261-21-1	Bis(triphenyltin) oxide
18380-71-7	Triphenyltin Fatty acid salts
47672-31-1	Triphenyltin Fatty acid salts
----	Mixture of tributyltin cyclopentanecarboxylate and its analogs (Tributyltin naphthenate)
----	Mixture of tributyltin 1,2,3,4,4a,4b,5,6,10,10a-decahydro-7-isopropyl-1,4a-dimethyl-1-phenanthrenecarboxylate and its analogs (Tributyltin rosin salt)
56323-17-2	Tin (organotin) and its compounds 6,11-Dioxa-5,12-distannahexadecane,8,9-dibromo-5,5,12,12-tetrabutyl-7,10-dioxo
13121-76-1	Bis (tricyclohexyltin) sulfide
16091-18-2	Di(n-oxy)tin maleate
139353-88-1	Difluorotriphenyltin tetrabutylammonium
26239-64-5	Tributyltin 1,2,3,4,4a,4b,5,6,10,10a-decahydro-7-isopropyl 1,4adimethyl-1-phenanthrenecarboxylate
682-00-8	Tributyltin ethoxide
688-73-3	Tributyltin hydride
1067-97-6	Tributyltin hydroxide
7342-47-4	Tributyltin iodide
1067-52-3	Tributyltin methoxide
85409-17-2	Tributyltin naphthenate
3091-32-5	Tricyclohexyltin chloride
13121-70-5	Tricyclohexyltin hydroxide
2767-54-6	Triethyltin bromide
1066-44-0	Trimethyltin bromide
1066-45-1	Trimethyltin chloride

68725-14-4	Tri-n-butyltin trifluoromethanesulfonic acid
3342-67-4	Triphenyltin chloride
892-20-6	Triphenyltin hydride
818-08-6	Dibutyltin oxide
5409-17-2	Tributyltin cyclopentane carbonate mixture
683-18-1	Dibutyltin dichloride (DBT)
22673-19-4	Dibutylbis(pentane-2,4-dionato-O,O')tin
91648-39-4	Stannane, dioctyl-, bis(coco acyloxy) derivs.
_____	Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety

Table M – This table has been removed and reserved for future use.

TABLE N Select Pesticides & Herbicides	
(This is the complete listing of compounds in the category considered Banned when the chemical will become part of the TI product)	
CAS#	Chemical or Material Name
2385-85-5	Mirex (Perchloropentacyclodecane)
72-20-8	Endrin
50-29-3	DDT
789-02-6	Dichlorodiphenyltrichloroethane (o,p'-DDT)
76-44-8	Heptachlor
12789-03-6	Chlordane
309-00-2 or	Aldrin
34487-55-3	
60-57-1	Dieldrin
8001-35-2	Toxaphene
20859-73-8	Aluminum Phosphide
298-00-0	Dimethylparanitrophenylphosphate (Methyl Parathion)
542-88-1	Chloromethyl Ether (Bis(Chloromethyl)Ether)
56-38-2	Diethylparanitrophenolthiophosphate (Parathion)
8022-00-2	Methyl Demeton
9002-93-1	Poly(oxy-1,2-ethanediyl)
9016-45-9	n-Nonylphenol polyglycol ether
107-49-3	Tetraethylpyrophosphate (TEPP)
118-74-1	Hexachlorobenzene
120-12-7	Anthracene
90640-80-5	Anthracene oil
91995-17-4	Anthracene oil, anthracene paste distn. Lights
91995-15-2	Anthracene oil, anthracene paste, anthracene fraction
90640-82-7	Anthracene oil, anthracene-low
90640-81-6	Anthracene oil, anthracene paste
122-34-9	Simazine (CAT), 2-Chloro-4,6-bis(ethylamino)-1,3,5-triazine

126-72-7	Tris (2,3-dibromopropyl) phosphate
13171-21-6	Organic Phosphorous Compounds -Dimethyl diethylamido-1-chlorocrotonyl (2) phosphate (Phosphamidon)
7723-14-0	Red Phosphorous
137-26-8	Thiuram (Tetramethylthiuram Disulfide) (Thiram)
152-16-9	Octamethylpyrophosphoramide
205-82-3	Benzo(j)Fluoranthene
205-99-2	Benzo(b)Fluoranthene
28249-77-6	Thiobencarb (Carbamic acid, diethylthio-,S-(p-chlorobenzyl) ester)
50-32-8	Benzo(a)Pyrene
545-55-1	Tris(1-aziridiny)phosphine oxide
56-55-3	1,2-Benzanthracene
62-44-2	4'-Ethoxyacetanilide (Phenacetin) (Acetophenetidine)
115-96-8	Tris(2-chloroethyl)phosphate
101-77-9	4,4'- Diaminodiphenylmethane
26140-60-3	Terphenyl (PCTs)
61788-33-8	Terphenyl, chlorinated (Kanechlor C)
25155-23-1	Trixylyl phosphate
13674-84-5	Tris(2-chloro-1-methylethyl) phosphate (TCPP)
13674-87-8	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)
25155-23-1	Trixylyl phosphate

TABLE O Other Miscellaneous Substances

(This is the complete listing of compounds in the category considered Banned when the chemical will become part of the TI product)

CAS#	Chemical or Material Name
78-93-3	Methyl Ethyl Ketone (MEK) (2-Butanone)
71-43-2	Benzene
108-95-2	Phenol
68-12-2	N, N-dimethylformamide, (DMF) (Dimethylformamide)
302-01-2 and	Hydrazine
7803-57-8	
79-06-1	Acrylamide
104-40-5	4-Nonylphenol
131-52-2	Pentachlorophenol (PCP) Salts and Compounds or Esters
135-88-6	N-Phenyl-2-Naphthalenamine (N-Phenyl-beta-Naphthylamine)
25154-52-3	N-Nonylphenol (Phenol, nonyl)
552-89-6	o-Nitrobenzaldehyde (2-nitrobenzaldehyde)
732-26-3	2,4,6-Tri-Tert-Butylphenol
84852-15-3	4-Nonylphenol (Phenol, 4-t-nonyl-, branched)
90640-80-5	Anthracene Oil
92-93-3	4-Nitrobiphenyl and its salts
96-09-3	Styrene Oxide (Benzene, (epoxyethyl)-)

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98-95-3	Nitrobenzene
106-99-0	Butadiene
130983-70-9	1,3 Butadiene
590-19-2	1,2 Butadiene
107-13-1	Acrylonitrile (monomer)
75-21-8	Ethylene Oxide
75-07-0	Acetaldehyde
50-00-0	Formaldehyde
105-66-8	Propyl butanoate
624-49-7	Dimethyl Fumarate
3846-71-7	2-(3',5'-Di-tert-hydroxyphenyl)benzotriazole or 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)
25973-55-1	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)
15571-58-1	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)
-----	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)
121-14-2	2-4-Dinitrotoluene
EN 650-017-00- 8	Aluminosilicate, Refractory Ceramic Fibers
EN 650-017-00-8	Zirconia Aluminosilicate, Refractory Ceramic Fibers
81-15-2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)
10124-43-3	Cobalt(II) sulphate
10141-05-6	Cobalt(II) dinitrate
513-79-1	Cobalt(II) carbonate
71-84-7	Cobalt(II) diacetate
15606-95-8	Triethyl arsenate
1303-28-2	Diarsenic pentaoxide
12267-73-1	Tetraboron disodium heptaoxide, hydrate
10043-35-3 and	Boric Acid
11113-50-1	
1303-96-4 and	Disodium tetraborate anhydrous
1330-43-4 and	
12179-04-3	
7632-04-4	Sodium peroxometaborate
-----	Sodium perborate; perboric acid, sodium salt
872-50-4	1-Methyl-2-pyrrolidone
1309-64-4	Antimony Oxide (dopants are exempt)
2580-56-5	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)
561-41-1	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol
90-94-8	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)
75-12-7	Formamide
101-61-1	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)
2451-62-9	1,3,5-tris(oxiran-2-ylmethyl)-1,3,5-triazine-2,4,6-trione (TGIC)
59653-74-6	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)

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6786-83-0	α,α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)
548-62-9	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)
1303-86-2	Diboron trioxide (Except for use as wafer fab dopants)
1309-64-4	Antimony Trioxide (Exempt for use as dopants in silicon wafers and wire)
7790-91-2	Chlorine Trifluoride
85-42-7 or	Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride — HHPA)
13149-00-3 or	
14166-21-3	
625-45-6	Methoxy acetic acid
629-14-1	1,2-Diethoxyethane
75-56-9	Propylene oxide; 1,2-epoxypropane; methyloxirane
64-67-5	Diethyl sulphate
77-78-1	Dimethyl sulphate
143860-04-2	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine
88-85-7	Dinoseb
573-58-0	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)
1937-37-7	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)
96-45-7	Imidazolidine-2-thione (2-imidazoline-2-thiol)
79-16-3	N-methylacetamide
573-58-0	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)
1937-37-7	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)
96-45-7	Imidazolidine-2-thione (2-imidazoline-2-thiol)
68515-50-4	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear
-----	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated —covering well-defined substances and UVCB substances, polymers and homologues
-----	4-Nonylphenol, branched and linear —substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof
68648-93-1	1,2-Benzenedicarboxylic acid mixed decyl and hexyl and octyl di esters (Mixed alkyl diester)
68515-51-5	1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters (Mixed alkyl diester)
-----	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]
3864-99-1	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)
36437-37-3	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)
1120-71-4	1,3-propanesultone
68921-45-9	Benzenamine, N-phenyl-, reaction products with styrene and 2,4,4-trimethylpentene (BNST)
-----	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)
552-30-7	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride
541-02-6	Decamethylcyclopentasiloxane
12008-41-2	Disodium octaborate
540-97-6	Dodecamethylcyclotetrasiloxane

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107-15-3	Ethylenediamine
556-67-2	Octamethylcyclotetrasiloxane
61788-32-7	Terphenyl, hydrogenated
15087-24-8	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one
6807-17-6	2,2-bis(4'-hydroxyphenyl)-4-methylpentane
127-19-5	N,N-Dimethylacetamide (DMAC)
110-49-6	2-methoxyethyl acetate
98-54-4	4-tert-butylphenol
-----	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)
26523-78-4	tris(nonylphenyl) phosphite
3050-88-2	Phenol, 4-nonyl-, phosphite (3:1)
-----	tris(4-nonylphenyl, branched) phosphite
106599-06-8	Phenol, p-sec-nonyl-, phosphite
31631-13-7	Phenol, p-isononyl-, phosphite (3:1)
106599-06-8	Phenol, p-sec-nonyl-, phosphite
68937-41-7	phenol, isopropylated phosphate (3:1) (PIP (3:1))
119313-12-1	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone
71868-10-5	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one
94-26-8	Butyl 4-hydroxybenzoate
143-24-8	Bis(2-(2-methoxyethoxy)ethyl)ether
-----	dioctyltin dilaurate; stannane, dioctyl-, bis(coco acyloxy) derivs.
123-91-1	1,4-dioxane
75166-31-3	(2R)-3-(4-tert-butylphenyl)-2-methylpropanal
75166-30-2	(2S)-3-(4-tert-butylphenyl)-2-methylpropanal
80-54-6	2-(4-tert-butylbenzyl)propionaldehyde
77-40-7	4,4'-(1-methylpropylidene)bisphenol
111-30-8	glutaral
-----	orthoboric acid, sodium salt
1333-73-9	Boric acid, sodium salt
13840-56-7	Orthoboric acid, sodium salt
22454-04-2	Boric acid (H3BO3), disodium salt
25747-83-5	boric acid (H3BO3), sodium salt, hydrate
25747-83-5	boric acid (H3BO3), sodium salt (1:1)
14312-40-4	Trisodium orthoborate
-----	Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)
27459-10-5	4-isododecylphenol
57427-55-1	Phenol, tetrapropylene-
210555-94-5	Phenol, 4-dodecyl, branched
74499-35-7	Phenol, (tetrapropenyl) derivatives
27147-75-7	Phenol, 4-isododecyl-
121158-58-5	Phenol, dodecyl-, branched
-----	($\pm$)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)

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1782069-81-1	(3E)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one
95342-41-9	(1R,3E,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one
852541-25-4	(1S,3Z,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one
36861-47-9	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one
741687-98-9	(1R,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one
852541-30-1	(1S,3E,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one
852541-21-0	(1R,3Z,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one
255881-94-8	S-(tricyclo[5.2.1.0' ² ,6]deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate
1067-53-4	tris(2-methoxyethoxy)vinylsilane
924-42-5	N-(hydroxymethyl)acrylamide
732-26-3	2,4,6-tris(tertbutyl) phenol (TTBP)
3896-11-5	Bumetrizole (UV-326)
119344-86-4	2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one
3147-75-9	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)
732-26-3	2,4,6-tri-tert-butylphenol
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide
108-78-1	Melamine
4247-02-3	Isobutyl 4-hydroxybenzoate
13701-59-2	Barium diboron tetraoxide
80-09-1	4,4'-sulphonyldiphenol
872-50-4	N-methyl-2-pyrrolidone
133-49-3	Pentachlorothiophenol (PCTP)
107-51-7	Octamethyltrisiloxane
597-82-0	O,O,O-triphenyl phosphorothioate
2156592-54-8	6-[(C10-C13)-alkyl-(branched, unsaturated)-2,5-dioxopyrrolidin-1-yl]hexanoic acid
115-86-6	Triphenyl phosphate
80-43-3	Bis(α,α-dimethylbenzyl) peroxide
----- 68512-30-1	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol - Phenol, methylstyrenated
-----	Tetra(sodium/potassium) 7-[(E)-{2-acetamido-4-[(E)-(4-{[4-chloro-6-{2-[(4-fluoro-6-{[4-(vinylsulfonyl)phenyl]amino}-1,3,5-triazine-2-yl)amino]propyl}amino)-1,3,5-triazine-2-yl]amino}-5-sulfonato-1-naphthyl)diazenyl]-5-methoxyphenyl]diazenyl]-1,3,6-naphthalenetrisulfonate (Reactive Brown 51)
141-62-8	Decamethyltetrasiloxane
17928-28-8	1,1,1,3,5,5,5-heptamethyl-3-[(trimethylsilyl)oxy]trisiloxane

TABLE P Perfluorinated Compounds (PFC)s and Hydrofluorocarbons (HFC's)

(This is the complete listing of compounds in the category considered Banned when the chemical will become part of the TI product)

CAS#	Chemical or Material Name
7783-54-2	Nitrogen Trifluoride (NF3)
75-73-0	Carbon Tetrafluoride (CF4)

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76-16-4	Hexafluoroethane (C2F6)
116-15-4	Hexafluoropropylene (C3F6)
76-19-7	Octafluoropropane (C3F8)
115-25-3	Octofluorocyclobutane (C4F8)
773-14-8	Perfluorotetrahydrofuran (C4F8O)
75-46-7	Trifluoromethane (CHF3)
2551-62-4	Sulfur Hexafluoride (SF6)
354-33-6	1,1,1,2,2-Pentafluoroethane (HFC-125)
431-89-0	1,1,1,2,3,3,3-Heptafluoropropane (HFC-227EA)
811-97-2	1,1,1,2-Tetrafluoroethane (HFC 134A)
690-39-1	1,1,1,3,3,3-Hexafluoropropane (HFC-236FA)
460-73-1	1,1,1,3,3-Pentafluoropropane (HFC-245FA)
407-59-0	1,1,1,4,4,4-Hexafluorobutane
420-46-2	1,1,1-Trifluoroethane (HFC-143A)
679-86-7	1,1,2,2,3-Pentafluoropropane (HFC-245CA)
430-66-0	1,1,2-Trifluoroethane
75-38-7	1,1,-Difluoroethene
75-37-6	1,1-Difluoroethane (HFC-152A)
75-10-5	Difluoromethane (HFC-32)
138495-42-8	Pentane, 1,1,1,2,2,3,4,5,5,5-decafluoro- (HFC-4310MEE)
355-25-9	Decafluorobutane or Perfluorobutane
678-26-2	Dodecafluoropentane
335-57-9	Hexadecafluoroheptane, Perfluoroheptane
307-34-6	Octadecafluorooctane, Perfluorooctane
355-42-0	Perfluoro-n-Hexane
359-35-3	1,1,2,2-Tetrafluoroethane (HFC 134)
677-56-5	1,1,1,2,2,3-Hexafluoropropane (HFC-236cb)
431-63-0	1,1,1,2,3,3-Hexafluoropropane (HFC-236EA)
406-58-6	1,1,1,3,3-Pentafluorobutane (HFC-365MFC)
593-53-3	Methyl fluoride (HFC-41)
338-83-0	Perfluamine

TABLE Q Polycyclic Aromatic Hydrocarbons

(This is the complete listing of compounds in the category considered Banned when the chemical will become part of the TI product)

CAS#	Chemical or Material Name
50-32-8	Benzo(a)pyrene or benzo[def]chrysene
192-97-2	Benzo(e)pyrene
56-55-3	Benz(a)anthracene
1718-53-2	
218-01-9	Chrysene
1719-03-5	

205-82-3	Benz(j)fluoranthene
207-08-9	Benz(k)fluoranthene
53-70-3	Dibenz(a,h)anthracene
205-99-2	Benz(e)acephenanthrylene
71888-89-6	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich
68515-42-4	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters
208-96-8	Acenaphthylene
83-32-9	Acenaphthene
86-73-7	Fluorene
85-01-8	Phenanthrene
206-44-0	Fluoranthene
93951-69-0	
129-00-0	Pyrene
1718-52-1	
193-39-5	Indeno(1,2,3-cd)pyrene
205-99-2	Benzo(b)fluoranthene
191-24-2	Benzo(ghi)perylene

TABLE R Halogenated Dioxins, Furans and Naphthalenes

(This is the complete listing of compounds in the category considered Banned when the chemical will become part of the TI product)

CAS#	Chemical or Material Name
1746-01-6	2,3,7,8-Tetra-CDD
3268-87-9	1,2,3,4,6,7,8,9-Octa-CDD (Octachlorodibenzo-p-Dioxin)
39001-02-0	1,2,3,4,6,7,8,9-Octa-CDF (Octachlorodibenzofuran)
35822-46-9	1,2,3,4,6,7,8-Hepta-CDD (Heptachlorodibenzo-p-Dioxin)
67562-39-4	1,2,3,4,6,7,8-Hepta-CDF (1,2,3,4,6,7,8-Heptachlorodibenzofuran)
58200-70-7	1,2,3,4,6,7,9-Heptachloro-dibenzo[be][1,4]Dioxin
58200-66-1	1,2,3,4,6,7-Hexachloro-dibenzo[be][1,4]Dioxin
58200-67-2	1,2,3,4,6,8-Hexachloro-dibenzo[be][1,4]Dioxin
58200-68-3	1,2,3,4,6,9-Hexachloro-dibenzo[be][1,4]Dioxin
67028-19-7	1,2,3,4,6-Pentachloro-dibenzo[be][1,4]Dioxin
55673-89-7	1,2,3,4,7,8,9-Hepta-CDF (1,2,3,4,7,8,9-Heptachlorodibenzofuran)
110999-44-5	1,2,3,4,7,8-Hexa-BDD
39227-28-6	1,2,3,4,7,8-Hexa-CDD (1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin)
70648-26-9	1,2,3,4,7,8-Hexa-CDF (1,2,3,4,7,8-Hexachlorodibenzofuran)
39227-61-7	1,2,3,4,7-Pentachloro-dibenzo[be][1,4]Dioxin
30746-58-8	1,2,3,4-Tetrachloro-dibenzo[be][1,4]Dioxin
110999-45-6	1,2,3,6,7,8-Hexa-BDD
57653-85-7	1,2,3,6,7,8-Hexa-CDD (1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin)
57117-44-9	1,2,3,6,7,8-Hexachloro-p-dibenzofuran
64461-98-9	1,2,3,6,7,9-Hexachloro-dibenzo[be][1,4]Dioxin

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71925-15-0	1,2,3,6,7-Pentachloro-dibenzo[be][1,4]Dioxin
58200-69-4	1,2,3,6,8,9-Hexachloro-dibenzo[be][1,4]Dioxin
71925-16-1	1,2,3,6,8-Pentachloro-dibenzo[be][1,4]Dioxin
82291-34-7	1,2,3,6,9-Pentachloro-dibenzo[be][1,4]Dioxin
71669-25-5	1,2,3,6-Tetrachloro-dibenzo[be][1,4]Dioxin
110999-46-7	1,2,3,7,8,9-Hexa-BDD
19408-74-3	1,2,3,7,8,9-Hexa-CDD
72918-21-9	1,2,3,7,8,9-Hexa-CDF
109333-34-6	1,2,3,7,8-Penta-BDD
109333-34-8	1,2,3,7,8-Penta-BDF
40321-76-4	1,2,3,7,8-Penta-CDD
57117-41-6	1,2,3,7,8-Penta-CDF
71925-17-2	1,2,3,7,9-Pentachloro-dibenzo[be][1,4]Dioxin
67028-18-6	1,2,3,7-Tetrachloro-dibenzo[be][1,4]Dioxin
71925-18-3	1,2,3,8,9-Pentachloro-dibenzo[be][1,4]Dioxin
53555-02-5	1,2,3,8-Tetrachloro-dibenzo[be][1,4]Dioxin
71669-26-6	1,2,3,9-Tetrachloro-dibenzo[be][1,4]Dioxin
53536-17-3	1,2,3-Trichloro-dibenzo[be][1,4]Dioxin
39227-62-8	1,2,4,6,7,9-Hexachloro-dibenzo[be][1,4]Dioxin
82291-35-8	1,2,4,6,7-Pentachloro-dibenzo[be][1,4]Dioxin
58802-09-8	1,2,4,6,8,9-Hexachloro-dibenzo[be][1,4]Dioxin
71998-76-0	1,2,4,6,8-Pentachloro-dibenzo[be][1,4]Dioxin
82291-36-9	1,2,4,6,9-Pentachloro-dibenzo[be][1,4]Dioxin
71669-27-7	1,2,4,6-Tetrachloro-dibenzo[be][1,4]Dioxin
58802-08-7	1,2,4,7,8-Pentachloro-dibenzo[be][1,4]Dioxin
82291-37-0	1,2,4,7,9-Pentachloro-dibenzo[be][1,4]Dioxin
71669-28-8	1,2,4,7-Tetrachloro-dibenzo[be][1,4]Dioxin
82291-38-1	1,2,4,8,9-Pentachloro-dibenzo[be][1,4]Dioxin
71669-29-9	1,2,4,8-Tetrachloro-dibenzo[be][1,4]Dioxin
71665-99-1	1,2,4,9-Tetrachloro-dibenzo[be][1,4]Dioxin
71669-23-3	1,2,4,9-Tetrachloro-dibenzo[be][1,4]Dioxin
39227-58-2	1,2,4-Trichloro-dibenzo[be][1,4]Dioxin
40581-90-6	1,2,6,7-Tetrachloro-dibenzo[be][1,4]Dioxin
67323-56-2	1,2,6,8-Tetrachloro-dibenzo[be][1,4]Dioxin
40581-91-7	1,2,6,9-Tetrachloro-dibenzo[be][1,4]Dioxin
82291-29-0	1,2,6-Trichloro-dibenzo[be][1,4]Dioxin
34816-53-0	1,2,7,8-Tetrachloro-dibenzo[be][1,4]Dioxin
82291-30-3	1,2,7-Trichloro-dibenzo[be][1,4]Dioxin
62470-54-6	1,2,8,9-Tetrachloro-dibenzo[be][1,4]Dioxin
82291-31-4	1,2,8-Trichloro-dibenzo[be][1,4]Dioxin
82291-32-5	1,2,9-Trichloro-dibenzo[be][1,4]Dioxin
54536-18-4	1,2-Dichloro-dibenzo[be][1,4]Dioxin
82306-62-5	1,3,0-Trichloro-dibenzo[be][1,4]Dioxin
33423-92-6	1,3,6,8-Tetrachloro-dibenzo[be][1,4]Dioxin

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71669-24-4	1,3,6,9-Tetrachloro-dibenzo[be][1,4]Dioxin
82291-33-6	1,3,6-Trichloro-dibenzo[be][1,4]Dioxin
50585-46-1	1,3,7,8-Tetrachloro-dibenzo[be][1,4]Dioxin
62470-53-5	1,3,7,9-Tetrachloro-dibenzo[be][1,4]Dioxin
67028-17-5	1,3,7-Trichloro-dibenzo[be][1,4]Dioxin
82306-61-4	1,3,8-Trichloro-dibenzo[be][1,4]Dioxin
50585-39-2	1,3-Dichloro—dibenzo[be][1,4]Dioxin
40581-93-9	1,4,6,9-Tetrachloro—dibenzo[be][1,4]Dioxin
8230-60-6	1,4,6-Trichloro-dibenzo[be][1,4]Dioxin
40581-94-0	1,4,7,8-Tetrachloro-dibenzo[be][1,4]Dioxin
82306-64-7	1,4,7-Trichloro-dibenzo[be][1,4]Dioxin
54536-19-5	1,4-Dichloro-dibenzo[be][1,4]Dioxin
38178-38-0	1,6-Dichloro-dibenzo[be][1,4]Dioxin
82291-26-7	1,7-Dichloro-dibenzo[be][1,4]Dioxin
82291-27-8	1,8-Dichloro-dibenzo[be][1,4]Dioxin
82291-28-9	1,9-Dichloro-dibenzo[be][1,4]Dioxin
39227-53-7	1-Chloro-dibenzo[be][1,4]Dioxin
60851-34-5	2,3,4,6,7,8-Hexa-CDF
131166-92-2	2,3,4,7,8-Penta-BDF
57117-31-4	2,3,4,7,8-Penta-CDF
82306-65-8	2,3,6-Trichloro-dibenzo[be][1,4]Dioxin
51207-31-9	2,3,7,8-Tetra – CDF
50585-81-6	2,3,7,8-Tetra-BDD
67733-57-7	2,3,7,8-Tetra-BDF
56795-67-6	2,3,7,8-Tetra-CDD
33857-28-2	2,3,7-Tetrachloro-dibenzo[be][1,4]Dioxin
29446-15-9	2,3-Dichloro-dibenzo[be][1,4]Dioxin
33857-26-0	2,7-Dichloro-dibenzo[be][1,4]Dioxin
38964-22-6	2,8-Dichloro-dibenao[be][1,4]Dioxin
39227-54-8	2-Chloro-dibenzo[be][1,4]Dioxin
35656-51-0	Chlorodibenzo[be][1,4]Dioxin
262-12-4	Dibenzo[be][1,4]Dioxin
64501-00-4	Dichlorodibenzo[be][1,4]Dioxin
37871-00-4	Heptachlorodibenzo[be][1,4]Dioxin
34465-46-8	Hexachloro-dibenzo[be][1,4]Dioxin
36088-22-9	Pentachlorodibenzo[be][1,4]Dioxin
69760-96-9	Trichlorodibenzo[be][1,4]Dioxin
110-00-9	Furan
59536-65-1	Polybrominated Biphenyls
92-86-4	Dibromobiphenyl
2052-07-5	2-Bromobiphenyl
2113-57-7	3-Bromobiphenyl
92-66-0	4-Bromobiphenyl
59080-34-1	Tribromobiphenyl

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40088-45-7	Tetrabromobiphenyl
56307-79-0	Pentabrphenyl
59080-40-9	Hexabromobiphenyl
36355-01-8	hexabromo-1,1-biphenyl
67774-32-7	Firemaster FF-1
35194-78-6	Heptabromobiphenyl
61288-13-9	Octabromobiphenyl
27753-52-2	Nonabiphenyl
13654-09-6	Decabromobiphenyl
101-55-3	Bromodiphenyl ether
2050-47-7	Dibromodiphenyl ethers
49690-94-0	Tribromodiphenyl ether
40088-47-9	Tetrabromodiphenyl ethers
36483-60-0	Hexabromodiphenyl ether
68928-80-3	Heptabromodiphenylether
63936-56-1	Nonabromodiphenylether
1163-19-5	Decabromodiphenyl ether
32534-81-9	Pentabromodiphenyl ether
32536-52-0	Octabromodiphenyl ether
1336-36-3	Polychlorinated Biphenyls (all isomers and congeners)
76253-60-6	Monomethyl-tetrachloro-diphenyl methane
81161-70-8	Monomethyl-dichloro-diphenyl methane
99688-47-8	Monomethyl-dibromo-diphenyl methane (DBBT)
61788-33-8	Polychlorinated Terphenyls (PCT) (all isomers and congeners)
70776-03-3	Naphthalene, chloro derivatives
90-13-1	1-Chloronaphthalene
91-58-7	2-Chloronaphthalene
1825-30-5	1,5-Dichloronaphthalene
1825-31-6	1,4-Dichloronaphthalene
2050-69-3	1,2-Dichloronaphthalene
2050-72-8	1,6-Dichloronaphthalene
2050-73-9	1,7-Dichloronaphthalene
2050-74-0	1,8-Dichloronaphthalene
2050-75-1	2,3-Dichloronaphthalene
2065-70-5	2,6-Dichloronaphthalene
2198-75-6	1,3-Dichloronaphthalene
2198-77-8	2,7-Dichloronaphthalene
25586-43-0	Chloronaphthalene
28699-88-9	Dichloronaphthalene
1321-64-8	Pentachloronaphthalene
1321-65-9	Trichloronaphthalene
1335-87-1	Hexachloronaphthalene
1335-88-2	Tetrachloronaphthalene
2234-13-1	Perchloronaphthalene

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2437-54-9	1,4,6-Trichloronaphthalene
2437-55-0	1,4,5-Trichloronaphthalene
3432-57-3	1,4,5,8-Tetrachloronaphthalene
6529-87-9	1,2,4,8-Tetrachloronaphthalene
6733-54-6	1,2,4,5-Tetrachloronaphthalene
17062-87-2	1,2,3,6,7,8-Hexachloronaphthalene
20020-02-4	1,2,3,4-Tetrachloronaphthalene
31604-28-1	1,3,5,8-Tetrachloronaphthalene
32241-08-0	Heptachloronaphthalene
34588-40-4	2,3,6,7-Tetrachloronaphthalene
50402-51-2	1,2,4-Trichloronaphthalene
50402-52-3	1,2,3-Trichloronaphthalene
51570-43-5	1,3,5-Trichloronaphthalene
51570-44-6	1,2,6-Trichloronaphthalene
51570-45-7	1,2,4,6-Tetrachloronaphthalene
53555-63-8	1,2,3,5-Tetrachloronaphthalene
53555-64-9	1,3,5,7-Tetrachloronaphthalene
53555-65-0	1,2,3,5,7-Pentachloronaphthalene
55720-33-7	1,2,5-Trichloronaphthalene
55720-34-8	1,2,7-Trichloronaphthalene
55720-35-9	1,2,8-Trichloronaphthalene
55720-36-0	1,3,6-Trichloronaphthalene
55720-37-1	1,3,7-Trichloronaphthalene
55720-38-2	1,3,8-Trichloronaphthalene
55720-39-3	1,6,7-Trichloronaphthalene
55720-40-6	2,3,6-Trichloronaphthalene
55720-41-7	1,2,3,7-Tetrachloronaphthalene
55720-42-8	1,3,6,7-Tetrachloronaphthalene
55720-43-9	1,4,6,7-Tetrachloronaphthalene
58863-14-2	1,2,3,4,5,6,7-Heptachloronaphthalene
58863-15-3	1,2,3,4,5,6,8-Heptachloronaphthalene
58877-88-6	1,2,3,4,5,6-Hexachloronaphthalene
67922-21-8	1,2,4,7-Tetrachloronaphthalene
67922-22-9	1,2,5,6-Tetrachloronaphthalene
67922-23-0	1,2,5,7-Tetrachloronaphthalene
67922-24-1	1,2,6,8-Tetrachloronaphthalene
67922-25-2	1,2,3,4,5-Pentachloronaphthalene
67922-26-3	1,2,3,4,6-Pentachloronaphthalene
67922-27-4	1,2,3,4,5,7-Hexachloronaphthalene
90948-28-0	1,2,4,5,6,8-Hexachloronaphthalene
103426-92-2	1,2,4,5,7,8-Hexachloronaphthalene
103426-93-3	1,2,3,4,5,8-Hexachloronaphthalene
103426-94-4	1,2,3,5,7,8-Hexachloronaphthalene
103426-95-5	1,2,3,5,6,8-Hexachloronaphthalene

103426-96-6	1,2,3,4,6,7-Hexachloronaphthalene
103426-97-7	1,2,3,5,6,7-Hexachloronaphthalene
149864-78-8	1,2,3,6-Tetrachloronaphthalene
149864-79-9	1,2,6,7-Tetrachloronaphthalene
149864-80-2	1,2,5,8-Tetrachloronaphthalene
149864-81-3	1,2,3,8-Tetrachloronaphthalene
149864-82-4	1,2,7,8-Tetrachloronaphthalene
150205-21-3	1,2,3,7,8-Pentachloronaphthalene
150224-15-0	1,3,6,8-Tetrachloronaphthalene
150224-16-1	1,2,3,6,7-Pentachloronaphthalene
150224-17-2	1,2,4,6,7-Pentachloronaphthalene
150224-18-3	1,2,3,5,6-Pentachloronaphthalene
150224-19-4	1,2,4,5,7-Pentachloronaphthalene
150224-20-7	1,2,4,5,6-Pentachloronaphthalene
150224-21-8	1,2,4,7,8-Pentachloronaphthalene
150224-22-9	1,2,4,6,8-Pentachloronaphthalene
150224-23-0	1,2,3,6,8-Pentachloronaphthalene
150224-24-1	1,2,3,5,8-Pentachloronaphthalene
150224-25-2	1,2,4,5,8-Pentachloronaphthalene

TABLE S Class I and II Ozone Depleting Substances

(This is the complete listing of compounds in the category. These will only be used in closed loop refrigeration systems and phased out in accordance with the Montreal Protocol.)

CAS#	Chemical or Material Name
75-69-4	CFC-11 (CCl ₃ F) Trichlorofluoromethane
75-71-8	CFC-12 (CCl ₂ F ₂) Dichlorodifluoromethane
76-13-1 or 354-58-5	CFC-113 (C ₂ F ₃ Cl ₃) 1,1,2-Trichlorotrifluoroethane
76-14-2	CFC-114 (C ₂ F ₄ Cl ₂) Dichlorotetrafluoroethane
76-15-3	CFC-115 (C ₂ F ₅ Cl) Monochloropentafluoroethane
353-59-3	Halon 1211 (CF ₂ ClBr) Bromochlorodifluoromethane
75-63-8	Halon 1301 (CF ₃ Br) Bromotrifluoromethane
124-73-2	Halon 2402 (C ₂ F ₄ Br ₂) Dibromotetrafluoroethane
75-72-9	CFC-13 (CF ₃ Cl) Chlorotrifluoromethane
354-56-3	CFC-111 (C ₂ FCl ₅) Pentachlorofluoroethane
76-12-0 or 76-11-9	CFC-112 (C ₂ F ₂ Cl ₄) Tetrachlorodifluoroethane
422-78-6 or 135401-87-5	CFC-211 (C ₃ FCl ₇) Heptachlorofluoropropane
422-81-1	
3182-26-1	CFC-212 (C ₃ F ₂ Cl ₆) Hexachlorodifluoropropane
2354-06-5 or	CFC-213 (C ₃ F ₃ Cl ₅) Pentachlorotrifluoropropane

134237-31-3	
29255-31-0 or	CFC-214 (C3F4Cl4) Tetrachlorotetrafluoropropane
2268-46-4	
4259-43-2 or	CFC-215 (C3F5Cl3) Trichloropentafluoropropane
76-17-5	
1599-41-3	
661-97-2	CFC-216 (C3F6Cl2) Dichlorohexafluoropropane
422-86-6	CFC-217 (C3F7Cl) Chloroheptafluoropropane
56-23-5	CCl4 Carbon tetrachloride
71-55-6	Methyl Chloroform (C2H3Cl3) 1,1,1-trichloroethane
74-83-9	Bromomethane
74-96-4	Bromoethane
75-43-4	HCFC-21 (CHFCl2) Dichlorofluoromethane
75-45-6	HCFC-22 (CHF2Cl) Monochlorodifluoromethane
593-70-4	HCFC-31 (CH2FCl) Monochlorofluoromethane
354-14-3 or	HCFC-121 (C2HFCI4) Tetrachlorofluoroethane
354-11-0	
134237-32-4	
354-21-2 or	HCFC-122 (C2HF2Cl3) Trichlorodifluoroethane
41834-16-6	
354-15-4	
354-12-1	
306-83-2 or	HCFC-123 (C2HF3Cl2) Dichlorotrifluoroethane
34077-87-7	
354-23-4	
90454-18-5	
812-04-4	
2837-89-0 or	HCFC-124 (C2HF4Cl) Monochlorotetrafluoroethane
63938-10-3	
354-25-6	
359-28-4 or	HCFC-131 (C2H2FCI3) Trichlorofluoroethane
27154-33-2	
134237-34-6	
811-95-0	
2366-36-1	
1649-08-7 or	HCFC-132b (C2H2F2Cl2) Dichlorodifluoroethane
25915-78-0	
431-06-1	
471-43-2	
1842-05-3	
75-88-7 or	HCFC-133a (C2H2F3Cl) Monochlorotrifluoroethane
1330-45-6	
431-07-2	
421-04-5	

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1717-00-6 or	HCFC-141b (C ₂ H ₃ FCI ₂) Dichlorofluoroethane
25167-88-8	
430-57-9	
430-53-5	
75-68-3 or	HCFC-142b (C ₂ H ₃ F ₂ CI) Monochlorodifluoroethane
25497-29-4	
338-65-8	
338-64-7	
110587-14-9 or	Chlorofluoroethane
762-50-5	
1615-75-4	
422-26-4 or	HCFC-221 (C ₃ HFCl ₆) Hexachlorofluoropropane
134237-35-7	
29470-94-8	
422-49-1 or	HCFC-222 (C ₃ HF ₂ CI ₅) Pentachlorodifluoropropane
134237-36-8	
29470-94-8	
422-52-6 or	HCFC-223 (C ₃ HF ₃ CI ₄) Tetrachlorotrifluoropropane
134237-37-9	
422-50-4	
422-54-8 or	HCFC-224 (C ₃ HF ₄ CI ₃) Trichlorotetrafluoropropane
134237-38-0	
422-53-7	
422-51-5	
422-56-0 or	HCFC-225ca (C ₃ HF ₅ CI ₂) Dichloropentafluoropropane
127564-92-5	
128903-21-9	
422-48-0	
422-44-6	
13474-88-9	
136013-79-1	
111512-56-2	
507-55-1	HCFC-225cb (C ₃ HF ₅ CI ₂) Dichloropentafluoropropane
431-87-8 or	HCFC-226 (C ₃ HF ₆ CI) Monochlorohexafluoropropane
134308-72-8	
421-94-3 or	HCFC-231 (C ₃ H ₂ FCI ₅) Pentachlorofluoropropane
134190-48-0	
460-89-9 or	HCFC-232 (C ₃ H ₂ F ₂ CI ₄) Tetrachlorodifluoropropane
134237-39-1	
7125-84-0 or	HCFC-233 (C ₃ H ₂ F ₃ CI ₃) Trichlorotrifluoropropane
134237-40-4	
425-94-5 or	HCFC-234 (C ₃ H ₂ F ₄ CI ₂) Dichlorotetrafluoropropane
127564-83-4	
460-92-4 or	HCFC-235 (C ₃ H ₂ F ₅ CI) Monochloropentafluoropropane

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134237-41-5	
666-27-3 or	HCFC-241 (C3H3FCI4) Tetrachlorofluoropropane
134190-49-1	
460-63-9 or	HCFC-242 (C3H3F2CI3) Trichlorodifluoropropane
134237-42-6	
460-69-5 or	HCFC-243 (C3H3F3CI2) Dichlorotrifluoropropane
134237-43-7	
7125-99-7	
338-75-0	
134190-50-4 or	HCFC-244 (C3H3F4CI) Monochlorotetrafluoropropane
679-85-6	
421-75-0	
421-41-0 or	HCFC-251 (C3H4FCI3) Monochlorotetrafluoropropane
134190-51-5	
818-99-5	
819-00-1 or	HCFC-252 (C3H4F2CI2) Dichlorodifluoropropane
134190-52-6	
460-35-5 or	HCFC-253 (C3H4F3CI) Monochlorotrifluoropropane
134237-44-8	
420-97-3 or	HCFC-261 (C3H5FCI2) Dichlorofluoropropane
134237-45-9	
7799-56-6	
421-02-03 or	HCFC-262 (C3H5F2CI) Monochlorodifluoropropane
134190-53-7	
420-99-5	
102738-79-4	
430-55-7 or	HCFC-271 (C3H6FCI) Monochlorofluoropropane
134190-54-8	
420-44-0	
2314-97-8	Trifluoroiodomethane
1868-53-7	Dibromofluoromethane
1511-62-2	Bromodifluoromethane
373-52-4	Bromofluoromethane
306-80-9	Tetrabromofluoroethane
354-04-1	Dibromotrifluoroethane
124-72-1	Bromotetrafluoroethane
75-82-1	Dibromodifluoroethane
421-06-7	Bromotrifluoroethane
358-97-4	Dibromofluoroethane
420-47-3	Bromodifluoroethane
762-49-2	Bromofluoroethane
431-78-7	Dibromopentafluoropropane
2252-78-0	Bromohexafluoropropane
460-88-8	Bromopentafluoropropane

70192-80-2	Tribromodifluoropropane
431-21-0	Dibromotrifluoropropane
679-84-5	Bromotetrafluoropropane
75372-14-4	Tribromofluoropropane
460-25-3	Dibromodifluoropropane
421-46-5	Bromotrifluoropropane
51584-26-0	Dibromofluoropropane
1871-72-3	Bromofluoropropane

TABLE T Chlorinated paraffins

(This is the complete listing of compounds in the category.)

CAS#	Chemical or Material Name
85535-85-9	Alkanes, C14-17, chloro
-----	Di-, tri- and tetrachlorotetradecane
1372804-76-6	Alkanes, C14-16, chloro
198840-65-2	Tetradecane, chloro derivs
63449-39-8	Paraffin waxes and Hydrocarbon waxes, chloro
84082-38-2	Alkanes, C10-21, chloro
68920-70-7	Alkanes, C6-18, chloro
84776-06-7	Alkanes, C10-32, chloro
84776-07-8	Alkanes, C16-27, chloro
85049-26-9	Alkanes, C16-35, chloro
85536-22-7	Alkanes, C12-14, chloro
97659-46-6	Alkanes, C10-26, chloro
97553-43-0	Paraffins (petroleum), normal C>10, chloro
85681-73-8	Alkanes, C10-14, chloro
104948-36-9	Alkanes, C10-22, chloro
126207-70-3	Heptadecane, chloro
129521-61-5	Alkanes, C14-32, chloro
159715-72-7	Pentadecane, 3,5,7,9,11,13-hexachloro
221174-08-9	Tetradecane, 1,2,13,14,?-pentachloro
221174-09-0	Tetradecane, 1,2,13,14,?,?-hexachloro
2233595-19-0	Pentadecane, 2,5,6,11,14-pentachloro
276673-41-7	Octachloropentadecane
276673-44-0	Hexachlorohexadecane
276673-45-1	Octachlorohexadecane
28085-66-7	Heptachloroheptadecane
308061-49-6	Chloroalkanes, C14-18
360790-74-5	Chloroalkanes, C17-20
3922-32-5	1,1,1,15-Tetrachloropentadecane
57437-53-3	Tetradecane, tetrachloro
57437-56-6	Pentachloropentadecane
57437-57-7	Hexadecane, pentachloro

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57437-58-8	Heptachlorohexadecane
57437-60-2	Hexachloropentadecane
57437-61-3	Heptachloropentadecane
62108-59-2	1,1,1-Trichloropentadecane
67095-51-6	1,1,1,3-Tetrachloropentadecane
700864-25-1	Hexadecane, tetrachloro
700864-27-3	Hexachloroheptadecane
700864-28-4	Octachloroheptadecane
700864-29-5	Nonachloroheptadecane
865306-25-8	Tetradecane, 1,1,1,3-tetrachloro
866758-65-8	Chloroalkanes, C12-16
97262-09-4	Pentadecane, tetrachloro
61788-76-9	Alkanes, chloro
85422-92-0	Paraffin oils, chloro
2097144-44-8	Slack Wax (petroleum), chloro
39443-51-1	WK 30 (chloroparaffin)
52737-80-1	KhP 1100
68410-99-1	Alkenes, polymd., chlorinated
68477-12-3	Alkanesulfonic acids, chloro
106232-85-3	Alkanes, C18-20, chloro
108171-27-3	Chloroalkanes, C22-26
2097144-45-9	Alkanes, C20-24, chloro
308061-50-9	Chloroalkanes, C18-26
308061-51-0	Chloroalkanes, C22-24
85535-86-0	Alkanes, C18-28, chloro
106232-86-4	Alkanes, C22-40, chloro
127133-59-9	Alkanes, C21-38, chloro
1392825-28-3	Alkanes, C19-28-branched and linear, chloro
1401974-24-0	Alkanes, C22-30-branched and linear, chloro
1402738-52-6	Alkanes, C24-28, chloro
1417900-96-9	Alkanes, C21-34-branched and linear, chloro
1632986-67-4	Alkanes, C22-32, chloro
2097144-43-7	Alkanes, C20-28, chloro
288260-42-4	Alkanes, C22-30, chloro
-----	Paraffin waxes and hydrocarbon waxes, chloro, sulfochlorinated, saponified
68188-19-2	Paraffin waxes and hydrocarbon waxes, chloro, sulfochlorinated
68955-41-9	Alkanes, C10-18, bromo chloro
-----	Paraffin waxes and Hydrocarbon waxes C14-17, chloro, sulfochlorinated, low sulphonated, saponified

Revision	Description
A Released: February 28, 2001 by Tim Yeakley	Initial version
B Revised: March 21, 2003 by Tim Yeakley	1) Minor revisions to text in order to improve clarity. 2) Transferred document control from ESH Standards website to WPL Website, http://wpl.ext.ti.com/ccms/docs/TI%20SC%20Banned%20Chemicals%20%20Materials%20List.doc .
C Revised: August 16, 2006 by Tim Yeakley	1) Extensive modifications are included in this version. Compounds that are subject to TI's list have been clarified with as much specificity as possible by adding reference tables with CAS number identification of the compounds of concern for: Azo-based materials, Brominated Flame retardants and bromine based materials, Cadmium compounds, Chromium VI compounds, Creosote Compounds, Select Chlorine compounds, Select Ethylene Glycol Ethers, Select Fluorine compounds, Lead and Lead compounds, Mercury and Mercury Compounds, Select Phthalate compounds, Select Trivalent Organotin Compounds, Select Pesticides & Herbicides and Miscellaneous Substances. 2) A column was added that provide some key regulatory and industry references for each class of compounds. 3) The "Qualifier" column header was changed to "Manufacturers threshold based on customer requirements" to clearly identify these as TI's thresholds. 4) Some thresholds were clarified including those for Arsenic, Lead, and Phthalates.
D	August 15, 2007, Tim Yeakley. 1) Benzene was added back to the list after being mistakenly removed in the previous revision.
E	ECO/ECM #2082834/#2083419, M. Murray, 09/18/07, Tim Yeakley 1) SAP/EDGE controlled, 2) References to exclusions for 'intentionally added' substances were removed.
F	ECO #2090540, M. Murray, 06/26/08, Tim Yeakley: Added an exemption to the section for Barium compounds
G	ECO #2104974, M. Murray, 02/03/10, Tim Yeakley, Mark Frimann: Added chemicals identified by the EU REACH program as SVHC's and Dimethyl Fumarate, PVC, HFC's, PFC's, short chain chlorinated paraffin's, PAH's. Removed Barium and Selenium compounds.
H	ECO #2115615, M. Murray, 05/11/11, Tim Yeakley, Mark Frimann: Modified name of the list from "TI's Banned Chemicals and Materials List" to "TI's Restricted Chemicals and Materials List" to support changes made to better align with company-wide product content control changes. Added Chromium compounds to Table D and Cobalt compounds to Table O to support control of EU REACH SVHC's. Added Antimony and exemptions to Table M.

I	ECO #2117241, M. Murray, 07/05/11, Tim Yeakley, Mark Frimann; Modified name on title page from "TI's Banned Chemicals and Materials List" to "TI's Restricted Chemicals and Materials List" to support changes made to better align with company-wide product content control changes. Added Table M (Antimony and Antimony Compounds). Added table R (Halogenated Dioxins and Furans). Added compounds to support control of newly added substances to the EU REACH SVHC's.
J	M. Murray, 1/30/12, Tim Yeakley, Added substances to align TI's RCM list with the December 15, 2011 additions to the EU REACH SVHC list.
K	M. Murray, 6/28/12, Tim Yeakley, Added substances to align with customer requirements to tables B, D, F, L and Q. Added substances to tables G, I and O to align TI's RCM list with the June 18, 2012 update to the REACH SVHC list.
L	M. Murray, 1/18/13, Tim Yeakley, Added substances to tables B, G, H, I, K, L, and R to align TI's RCM list with the December 19, 2012 update to the REACH SVHC list.
M	M. Murray, 7/12/13, Tim Yeakley, Added substances to table H to align TI's RCM list with the June 2013 update to the REACH SVHC list. 144 SVHC's are now included in TI's RCM list.
N	M. Murray, 12/20/13, Tim Yeakley, Added substances to table N and O to align TI's RCM list with the December 16, 2013 update to the REACH SVHC list. 151 SVHC's are now included in TI's RCM list. Additional updates were made to tables B, H, N and O to include requirements from customers.
O	M. Murray, 6/27/14, Tim Yeakley, Added substances to table O to align TI's RCM list with the June 16, 2014 update to the REACH SVHC list. 155 SVHC's are now included in TI's RCM list.
P	M. Murray, 1/7/15, Tim Yeakley, Added substance to Tables C and O to align TI's RCM list with the December 17, 2014 update to the REACH SVHC list. 162 SVHC's are now included in TI's RCM list and added a CAS number to table O that was unintentionally deleted.
Q	M. Murray, 6/25/15, Tim Yeakley, Added an exemption to the use of antimony trioxide and new REACH substances in Table O. Per ECHA there are officially 163 REACH SVHC's and they are included in this document.
R	I. Tamez, 1/12/16, Tim Yeakley, Added some clarifying CAS numbers in Table O. Added REACH SVHC substances to tables H and O. 168 SVHC's are now included in TI's RCM list
S	ECO #2168340, 09/06/17, V. Orpilla, Tim Yeakley; 1) Updated the regulatory references on sheet 2 and a clarifying note to Table M (Table M has been removed and reserved for future use). 2) Added REACH SVHC substances to table Q. 174 SVHC's are now included in TI's RCM list. To more completely align with IEC 62474, substances were added to tables B, F, H, O, and R. A new table S was also added for Class I and II ODS's.
T	3/9/18, Tim Yeakley, Added new REACH SVHC substances to Table C, F and O. 181 SVHC's are now included in TI's RCM list.
U	7/17/18, Tim Yeakley, Added new REACH SVHC substances to Table O. 191 SVHC's are now included in TI's RCM List.
V	ECO #2179841, 02/28/19, V. Orpilla, Tim Yeakley; 1) Added new REACH SVHC substances to Table O. 197 SVHC's are now included in TI's RCM list.
W	ECO#2200488, 07/01/22, V. Orpilla, Tim Yeakley: Modified PCN criteria on Table 1. Added; REACH SVHC substance including DMAC, NMP among others to Tables A, B, E, F, H, K, L, O, and TSCA substances, PIP 3:1, 2,4,6-TTBP, and PCTP to Tables F and O.
X	ECO#2208878, 06/13/24 V. Orpilla, Tim Yeakley added: perchlorates to table F, PCTP to Table O and current list of PFAS on the USEPA TRI list and PFCA's (C9-C21 its salts and related substances) and PFHxA (its salts and related substances) to Table F.

Y

ECO#2215512, 12/10/25 V. Orpilla, Tim Yeakley added: three REACH Candidate list substances to Table O and P bringing the total of REACH Candidate list substance to 250. Added new table T of chlorinated paraffins including MCCP's.

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