



Material Category "List" means limited to the listing, "Examples" means non-exhaustive	CAS Number	Prohibition Type (Banned / Disclosed)	Threshold for Disclosure (based on Item's total weight, unless otherwise noted)	Industry Uses	Reason for Inclusion
Level A Materials - Prohibited and Restricted Substances					
A1 - Asbestos/Asbestos Materials	various	Product General ban	Intentionally added or 100 ppm (total)	Not expected, but historically used in heat resistant materials, gaskets, insulator, filler, abrasives, talc	EU - REACH Regulation and amendments; US - Toxic Substances Control Act (restricts new uses); Occupational Safety and Health Act (29CFR 1910.1001-1051). Japan - Labor Safety and Hygiene Law (Article 55).
List of substances	CAS Number				
Asbestos and Asbestos Materials	1332-21-4	ļ		ļ	
Actinolite Amosite (Grunerite)	77536-66-4 12172-73-5				
Antophyllite	77536-67-5				
Chrysotile	12001-29-5				
Crocidolite	12001-28-4				
Tremolite	77536-68-6				
A2 - Certain Azo-based Materials	various	Restricted	30 ppm (for direct skin	Dyes, plastic	EU - REACH Regulation and
(applies only to azocolourants and		applications:	contact)	colorants, headsets	amendments;
azodyes which, by reductive cleavage		applicable only to			Germany - Consumer Good Ordinance,
of one or more azo groups, may		Items that may come into direct contact			ChemG
release one or more of the 22 aromatics amines listed below)		with human skin			Japan - Law Concerning Examination and Regulation of Manufacture and Handling of Chemical Substances, Labor Safety and Hygiene Law.
List of 22 aromatic amines	CAS Number				
4-Aminodiphenyl and its salts	92-67-1				
Benzidene and its salts	92-87-5				
4-Chloro-o-toluidine (4-chloro-2- methylaniline) 2-Naphthylamine	95-69-2 91-59-8				
o-Aminoazotoluene 2-Amino-4-nitrotoluene	97-56-3 99-55-8				
p-Chloroaniline	106-47-8				
2,4-Diaminoanisole	615-05-4				
4,4'-Diaminodiphenylmethane	101-77-9				
3,3'-Dichlorobenzidene	91-94-1				
3,3'-Dimethoxybenzedine	119-90-4				
3,3'-Dimethylbenzedene	119-93-7				
3,3'-Dimethyl-4,4'-	838-88-0				
diaminodiphenylmethane p-Cresidene (5-Methyl-o-Anisidine)	120-71-8				
4,4'-Methelenebis-(2-chloroaniline)	101-14-4				
4,4'-Oxydianiline	101-80-4				
4,4'-thiodianiline and its salts	139-65-1				
o-Toluidine	95-53-4				
2,4-Toluylenediamine (Toluene-2,4-	95-80-7				
diamine) 2,4,5-Trimethylaniline	137-17-7				1
2,4,5-11111ettiyianiiine					
a aniaidina					
o-anisidine 4-amino azobenzene	90-04-0 60-09-3				

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A3 - Cadmium and Cadmium compounds	various	Restricted applications: 1. Dyes, Pigments, paints / enamels 2. Stabilizers pigments, dyes in plastics (insulation in electrical wiring, tubing, fittings) 3. Surface treatment (plating, coating) 4. Batteries	Intentionally added, or 100 ppm (homogeneous material basis), or 20 ppm for batterries	surface finish on circuit boards, silver cadmium oxide electrical contact alloys for relays and switches, cadmium telluride photovoltaic cells, cadmium sulfide based photocells, photocells, surface coating/plating, stabilizer for PVC	EU - REACH Regulation 1907/2006 and amendments; EU - Restrictions in Austria, Switzerland, Denmark, Netherlands, and Sweden; Global Battery Regulations: Minamata, US, EU, Asia Pacific, etc. Global RoHS Regulations: EU, China, etc.
Examples only	CAS Number				
Cadmium	7440-43-9				
Cadmium chloride	10108-64-2				
Cadmium fluoroborate	14486-19-2				
Cadmium oxide	1306-19-0				
Cadmium iodide	7790-80-9				
Cadmium selenide	1306-24-7				
Cadmium telluride	1306-25-8				
Cadmium tungstate	7790-85-4				
Cadmium nitrate (Cadmium salt)	10325-94-7				
Cadmium sulfate (Sulfuric acid)	10124-36-4				
Cadmium sulfide	1306-23-6				
Other cadmium compounds	various				
A4 - Chromium (VI) and Chromium (VI) compounds	various	Restricted applications: 1. Pigment, dyes used in plastics and rubber 2. Dyes, inks, catalyst	1000 ppm (homogeneous material basis)	Anti-corrosion surface treatment, surface plating, aluminum anodizing, chromate conversion, pigments, inks, paints adhesion enhancements, anti- corrosion in watter treatment	EU - REACH Regulation and amendments; Global RoHS Regulations: EU, China, etc.
Examples	CAS Number				
Barium chromate (VI)	10294-40-3				
Calcium chromate (VI) Chromium trioxide (VI)	13765-19-0 1333-82-0				
Lead chromate (VI)	7758-97-6				
Lead chromate (VI) oxide	18454-12-1				
Sodium chromate (VI) Sodium dichromate (VI)	7775-11-3 10588-01-9				
Strontium chromate (VI)	7789-06-2				
Zinc chromate (VI)	13530-65-9				
Potassium dichromate (VI) Other hexavalent chromium compounds	7778-50-9 various				

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A5 - Lead and Lead compounds	various	Restricted applications: 1. Pigment, dyes used in plastics and rubber (cables, cords, wires etc) 2. Dyes, inks, catalyst 3. Sealed lead batterries	1000 ppm for metals, or 300 ppm for cables, cord & wires (homogeneous	Electrical interconnect (surface finish, solder, leads). Leaded glass (CRT, lenses). Plastic stabilizer. Molding agent in plastic manufacture. Counterweight, machined metal parts (transformers). PVC electrical cables	EU - REACH Regulation and amendments; Global Battery Regulations: Minamata, US, EU, Asia Pacific etc. Global RoHS Regulations: EU, China, etc. US - California Prop 65 settlement
Examples	CAS Number				
Lead	7439-92-1				
Lead sulfate	7446-14-2				
Lead carbonate	598-63-0				
Lead hydrocarbonate	1319-46-6				
Lead acetate	301-04-2				
Lead (II) acetate, trihydrate	6080-56-4				
Lead phosphate	7446-27-7				
Lead selenide	12069-00-0				
Lead acetate	6080-56-4				
Lead nitrate	10099-74-8				
Other lead compounds	various				
A6 - Mercury and Mercury compounds		Restricted applications: 1. Pigment, dyes and additives used in plastics and rubber 2. Dyes, paints, inks 3. Batteries 4. Relay, switches, sensors	Intentionally added, or 1000 ppm (homogeneous materials basis), or 5 ppm for relays, switches and sensors	Lamps (back light for LCD, high intensity discharge lamps), thermostats, pigments, paints, battery, alloys, steels, resin stabilizer, ferroelectric	EU - REACH Regulation and amendments; Sweden - KIFS 1998:944 Global Battery Regulations: Minamata, US, EU, Asia Pacific Global RoHS Regulations: EU, China, etc.
Examples	CAS Number				
Mercury	7439-97-6				
Mercuric chloride	33631-63-9				
Mercuric bichloride	7487-94-7				
Mercuric sulfate	7783-35-9				
Mercuric nitrate	10045-94-0				
Mercuric oxide	21908-53-2				
Mercuric sulfide	1344-48-5				
Other mercury compounds	various				

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A7 - Class I & Class II Ozone Depleting Substances/Isomers (ODS)	various	Product and Process General ban	Intentionally added	industry phase-out, but may be found in rare cleaning applications. ODS are used as refrigerants, foaming	EU - Ozone Depleting Substances Germany - FCKW - Halon Verbots and CFC/Halon Prohibition Ordinance US - Clean Air Act Title VI (40CFR Part 82.106); Japan - Law Concerning Protection of the Ozone Layer by Regulating Designated Substances Note: Class I Substances currently banned for import and manufacture. Users must comply with labeling requirements. Note: Class II Substances banned for import and manufacture
List of Class I ODS	CAS Number				
Trichlorotrifluoromthane (CFC-11)	75-69-4				
Dichlorodifluoromethane (CFC-12)	75-71-8				
Chlorotrifluoromethane (CFC-13)	75-72-9				
Pentachlorofluoroethane (CFC-111)	354-56-3				
Tetrachlorodifluoroethane (CFC-112)	76-12-0				
Trichlorotrifluoroethane (CFC-113) 1,1,2 Trichlorotrifluoroethane	354-58-5 76-13-1				
Dichlorotetrafluoroethane (CFC-114)	76-14-2				
Monochloropentafluoroethane (CFC-115)	76-15-3				
Heptachlorofluoropropane (CFC-211)	422-78-6; 135401-87-5				
Hexachlorodifluoropropane (CFC-212)	3182-26-1				
Pentachlorotrifluoropropane (CFC-213)	134237-31-3				
Tetrachlorotetrafluoropropane (CFC-214) 1,1,1,3-Tetrachlorotetrafluoropropane	29255-31-0 2268-46-4				
Trichloropentafluoropropane (CFC-215)	1599-41-3				
1,1,1-Trichloropentafluoropropane	4259-43-2				
1,2,3-Trichloropentafluoropropane	76-17-5				
Dichlorohexafluoropropane (CFC-216)	661-97-2				
Monochloroheptafluoropropane (CFC- 217)	422-86-6				
Bromochlorodifluoromethane (Halon 1211)	353-59-3				
Bromotrifluoromethane (Halon 1301)	75-63-8				
Dibromotetrafluoroethane (Halon 2402)	124-73-2				
Carbon Tetrachloride (Tetrachloromethane)	56-23-5				
1,1,1-Trichloroethane (Methyl Chloroform) and its isomers except 1,1,2- TCA	71-55-6				
Bromomethane (Methyl Bromide)	74-83-9				
Bromodifluoromethane (HBFC-22B1) and isomers (HBFCs)	1511-62-2				
Clorobromomethane (CBM)	74-97-5				
List of Class II ODS	CAS Number				
Dichlorofluoromethane (HCFC-21)	75-43-4				
Chlorodifluoromethane (HCFC-22)	75-45-6				
Chlorofluoromethane (HCFC-31)	593-70-4				

Аррі	ed wate	rials Restric	ted and Decla	arable Subs	tances List
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Tetrachlorofluoroethane (HCFC-121)	134237-32-4,				
1,1,1,2-tetrachloro-2-fluoroethane (HCFC-					
121a)	354-11-0				
1,1,2,2-tetrachloro-1-fluoroethane	354-14-3				
	554-14-5				
Trichlorodifluoroethane (HCFC-122)	41834-16-6				
1,2,2-trichloro-1,1-difluoroethane	354-21-2				
Dichlorotrifluoroethane (HCFC-123)	34077-87-7				
Dichloro-1,1,2-trifluoroethane	90454-18-5				
2,2-dichloro-1,1,1-trifluoroethane	306-83-2				
1,2-dichloro-1,1,2-trifluoroethane (HCFC-	354-23-4				
123a)	812-04-4				
1,1-dichloro-1,2,2-trifluoroethane (HCFC-	812-04-4				
123b)					
2,2-dichloro-1,1,2-trifluoroethane (HCFC-					
123b) Chlorototrofluoroothono (UCEC 424)	63938-10-3				
Chlorotetrafluoroethane (HCFC-124)	2837-89-0				
2-chloro-1,1,1,2-tetrafluoroethane					
1-chloro-1,1,2,2-tetrafluoroethane (HCFC- 124a)	354-25-6				
Trichlorofluoroethane (HCFC-131)	27154-33-				
1-fluoro-1,2,2-trichloroethane	2;(134237-34-				
1,1,1-trichloro-2-fluoroethane (HCFC-	6)				
131b)	359-28-4				
1010)	811-95-0				
Dichlorodifluoroethane (HCFC-132)	25915-78-0				
1,2-dichloro-1,1-difluoroethane (HCFC-	1649-08-7				
132b)	1842-05-3				
1,1-dichloro-1,2-difluoroethane (HCFC-	471-43-2				
132c)	431-06-1				
1,1-dichloro-2,2-difluoroethane					
1.2-dichloro-1.2-difluoroethane					
Chlorotrifluoroethane (HCFC-133)	1330-45-6				
1-chloro-1,2,2-trifluoroethane	1330-45-6				
2-chloro-1,1,1-trifluoroethane (HCFC-	75-88-7				
133a) Dichlorofluoroethane (HCFC-141)	1717-00-				
1,1-dichloro-1-fluoroethane (HCFC-141b)					
1,2-dichloro-1-1fluoroethane	8)				
	1717-00-6				
	430-57-9				
Chlorodifluoroethane (HCFC-142)	25497-29-4				
1-chloro-1,1-difluoroethane (HCFC-142b)	75-68-3				
1-choro-1,2-difluoroethane (HCFC-142a)	25497-29-4				
	404007.05.7				
Hexachlorofluoropropane (HCFC-221)	134237-35-7				
Pentachlorodifluoropropane (HCFC-222)	134237-36-8				
Tetrachlorotrifluoropropane (HCFC-223)	134237-37-9				
Trichlorotetrafluoropropane (HCFC-224)	134237-38-0				
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Dichloropentafluoropropane, (Ethyne, fluoro-) (HCFC-225) 2,2-dichloro-1,1,1,3,3- pentafluoropropane (HCFC-225aa) 2,3-dichloro-1,1,2,3- pentafluoropropane (HCFC-225ba) 1,2-dichloro-1,1,2,3,3- pentafluoropropane (HCFC-225cb) 3,3-dichloro-1,1,2,2- pentafluoropropane (HCFC-225ca) 1,3-dichloro-1,1,2,2,3- pentafluoropropane (HCFC-225cb) 1,1-dichloro-1,2,2,3,3- pentafluoropropane (HCFC-225cb) 1,3-dichloro-1,1,2,2,3- pentafluoropropane (HCFC-225da) 1,3-dichloro-1,1,2,2,3- pentafluoropropane (HCFC-225da) 1,3-dichloro-1,2,3,3- pentafluoropropane (HCFC-225eb) 1,1-dichloro-1,2,3,3- pentafluoropropane (HCFC-225eb) Chlorohexafluoropropane (HCFC-226b) Pentachlorofluoropropane (HCFC-231)	127564-92-5; (2713-09-9) 128903-21-9 422-48-0 422-44-6 422-56-0 507-55-1 13474-88-9 431-86-7 136013-79-1 111512-56-2 134308-72-8 134308-72-8				
Tetrachlorodifluoropropane (HCFC-232)	134237-39-1				
Trichlorotrifluoropropane (HCFC-233) 1,1,1-Trichloro-3,3,3-trifluoropropane Dichlorotetrafluoropropane (HCFC-234) Chloropentafluoropropane (HCFC-235) 1-Chloro-1,1,3,3,3-pentafluoropropane	134237-40-4 7125-83-9 127564-83-4 134237-41-5 460-92-4				
Tetrachlorofluoropropane (HCFC-241)	134190-49-1				
Trichlorodifluoropropane (HCFC-242) Dichlorotrifluoropropane (HCFC-243) 1,1-dichloro-1,2,2-trifluoropropane 2,3-dichloro-1,1,1-trifluoropropane Chlorotetrafluoropropane (HCFC-244) 3-chloro-1,1,2,2-tetrafluoropropane Trichlorofluoropropane (HCFC-251) 1,1,3-trichloro-1-fluoropropane Dichlorodifluoropropane (HCFC-253) Dichlorofluoropropane (HCFC-261) 1,1-dichloro-1-fluoropropane Chlorodifluoropropane (HCFC-262) 2-chloro-1,3-difluoropropane Chlorofluoropropane (HCFC-271) 2-chloro-2-fluoropropane A8 - Polybrominated Biphenyls (PBBs)	134237-42-6 134237-43-7 7125-99-7 338-75-0 460-69-5 134190-50-4 679-85-6 134190-51-5 818-99-5 134190-52-6 134237-44-8 134237-45-9 7799-56-6 134190-53-7 102738-79-4 134190-54-8 420-44-0 various	Product General ban	Intentionally added or 1000 ppm (homogeneous material basis)	Not expected but were used as flame retardants additives. Could present in insulation oil, lubricating oil, electrolytic solution	EU - REACH Regulation and amendments; Germany - Dioxin Ordinance Global RoHS Regulations: EU, China, etc.
Examples	CAS Number				

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Polybrominated Biphenyls (PBBs)	59536-65-1; 37317-41-2; 27858-07-7				
Bromobiphenyls	2052-07-5 (2- Bromobiphen yl) 2113-57-7 (3- Bromobiphen y) 92-66-0 (4- Bromobiphen yl)				
Dibromobiphenyl	92-86-4				
Tribromobiphenyl	59080-34-1				
Tetrabrominatedbiphenyl	40088-45-7				
Pentabrominatedbiphenyl	56307-79-0				
Hexabromobiphenyls	59080-40-9 36355-01-8 (hexabromo- 1,1'-biphenyl) 67774-32-7 (Firemaster FF-1)				
Heptabromobiphenyl	35194-78-6				
Octabromobiphenyl	61288-13-9				
Nonabromobiphenyl	27753-52-2				
A9 - Polybrominated Biphenyls Ethers	various	Product	Intentionally added or	Not expected. Some	EU - REACH Regulation and
(PBDEs)	CAS Number	General ban	1000 ppm (homogeneous materials basis)		amendments; Germany - Dioxin Ordinance EU - RoHS
Bromodiphenyl ether	101-55-3				
Dibromodiphenyl ether	2050-47-7				
Tribromodiphenyl ether	49690-94-0				
Tetrabromodiphenyl ether	40088-47-9				
Pentabromodiphenyl ether (PeBDPO)(note: commercially available PeBDPO is a complex reaction mixture containing a variety of brominated diphenyloxides)	32534-81-9 (CAS number used for commercial grade PeBDPO)				
Hexabromodiphenyl ether	36483-60-0				
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Heptabromodiphenyl ether	68928-80-3				
Octabromodiphenyl ether (OBDPO)	32536-52-0				
Nonabromodipheny lether	63936-56-1				
Decabromodiphenyl ether	1163-19-5				
A10 - Polychlorinated Biphenyls(PCBs) / Polychlorinated Terphenyls (PCTs)	various	Product General ban	Intentionally added or 50 ppm (total)	oil, lubricating oil,	EU - REACH Regulation and amendments; US - TSCA (40 CFR Part 761) Japan - Law Concerning Examination and Regulation of Manufacture and Handling of Chemical Substances.
Evennes					
Examples Polychlorinated Biphenyls	CAS Number 1336-36-3				
Aroclor	12767-79-2				
Chlorodiphenyl (Aroclor 1260)	11096-82-5				
Kanechlor 500	27323-18-8				
Aroclor 1254	11097-69-1				
Terphenyls	26140-60-3,				
	61788-33-8				
Other PCBs and PCTs	various				
A11 - Polychlorinated Naphthalenes (PCNs) with 3 or more chlorine atoms.	various	Product General ban	Intentionally added	Historically used as an additive lubricants, rubbers and paints.	Swiss - SR814.013, Hazardous Substances Ordinance Japan - Law Concerning Examination and Regulation of Manufacture and Handling of Chemical Substances.
Examples	CAS Number				
Trichloronaphthalene	1321-65-9				
Tetrachloronaphthalene	1335-88-2				
Pentachloronaphthalene	1321-64-8				
Hexachloronaphthalene	1335-87-1				
Heptachloronaphthalene	32241-08-0				
Octachloronaphthalene	2234-13-1				
Other polychlorinated naphthalenes	various				
A12 - Radioactive Substances	various	Product and Process General ban	Intentionally added	Over-voltage device	Customer requirements
Examples	CAS Number				
Uranium	na				
Plutonium	na				
Radon	na				
Americium	na				
Thorium	na				
Cesium (radioactive isotopes only)	na				
Cesium (radioactive isotopes only) Strontium (radioactive isotopes only) Other radioactive substances	na na various				

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A13 - Short Chain Chlorinated Parraffins (Alkanes, C10-13, Cloro)	various	Product General ban	Intentionally added	Used in metal working fluids, lubricants, plasticizers in adhesives, paints, coatings,flame retardant additives in PWB, rubber, plastics and textiles.	EU - REACH Regulation and amendments
Examples	CAS Number				
Chlorinated paraffins	61788-76-9, 63449-39-8 85422-92-0, 97553-43-0 85535-84-8, 85535-85-9				
Other Short Chain Chlorinated Paraffins	Various				
A14 - Tributyl Tin (TBT), Triphenyl Tin (TPT) and its compounds	various	Product General ban	Intentionally added	Coating materials, catalyst, stabilizers,antiseptic agents, marking inks for electronic components and circuit boards	EU - REACH Regulation and amendments; Japan - Law Concerning Examination and Regulation of Manufacture and Handling of Chemical Substances.
<u>Examples</u>	CAS Number				
Tributyl tin and compounds	688-73-3				
Tributyltin fluoride	1983-10-4				
Tributyltin methacrylate	2155-70-6				
Tributyltin sulfamate	6517-25-5				
Bis (tributyltin) phthalate	4782-29-0				
Bis (tri-n-butyltin) dibromosuccinate	31732-71-5				
Bis (tributyltin) fumarate	6454-35-9				
(acetyloxy)tributylstannane	56-36-0				
Bromotributyltin	1461-23-0				
Triphenyltin and compounds	668-34-8				
Triphenyltin	1262-21-1				
Triphenyltin chloride	639-58-7				
Triphenyltin fluoride	379-52-2				
Triphenyltin hydroxide (Fentin hydroxide)	76-87-9				
Triphenyltin acetate (Fentin acetate)	900-95-8				
Triphenyltin N,N-dimethyldithioarbamate	1803-12-9				
Triphenyltin chloroacatate	7094-94-2				

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Others	1631-73-8, 1066-44-0 1066-45-1, 56- 24-6 997-50-2, 2767-54-6 994-31-0				
A15 - Tributyl Tin Oxide (TBTO)	various	Product General ban	Intentionally added	Coating materials, catalyst, stabilizers,antiseptic agents, marking inks for electronic components and circuit boards	EU - REACH Regulation and amendments; Japan - Law Concerning Examination and Regulation of Manufacture and Handling of Chemical Substances.
List	CAS Number				
Bis (tri-n-butyltin) oxide	56-35-9				
Refractory Ceramic Fibers (RCFs)	various	Product General ban	Intentionally added	Insulation for high temperature applications, furnace linings, heater beds.	EU - REACH Regulation and amendments; Customer inquiries
Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7	Product General ban	Intentionally added, or 1000 ppm (homogeneous material basis)	Adhesives, sealants and coating products. Plasticizer, additives for PVC electrical cables	EU - REACH Regulation and amendments; EU - RoHS
Butyl benzyl phthalate (BBP)	85-68-7	Product General ban	Intentionally added, or 1000 ppm (homogeneous material basis)	Adhesives, sealants and coating products. Plasticizer, additives for PVC electrical cables	EU - REACH Regulation and amendments; EU - RoHS
Dibutyl phthalate (DBP)	84-74-2	Product General ban	Intentionally added, or 1000 ppm (homogeneous material basis)	Adhesives, sealants and coating products. Plasticizer, additives for PVC electrical cables	EU - REACH Regulation and amendments; EU - RoHS
Diisobutyl phthalate (DIBP)	84-69-5	Product General ban	Intentionally added, or 1000 ppm (homogeneous material basis)	Adhesives, sealants and coating products. Plasticizer, additives for PVC electrical cables	EU - REACH Regulation and amendments; EU - RoHS

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PFOA-related substances	335-67-1 and others	Product General ban	Intentionally added, or 25 pbb for PFOA, its salts, or 1000 ppm combined PFOA-related substances	mainly used by industry to process PFOA salts, which are used in the production of fluoropolymers and fluoroelastomers. PFOA is also used as a component in fire-fighting equipment, flame retardants, cosmetics, lubricants, paints, textiles, polishes and adhesives, and in herbicide and insecticide formulations	EU - EU POPs Regulation
PFOA, its isomers, its salts List	CAS Number				
Perfluorooctanoic acid	335-67-1				
Perfluorooctanoate (conjugate base of the free acid)	45285-51-6				
Branched perfluorooctanoic acid	90480-55-0				
Hexanoic acid, 2,2,3,4,5,5,6,6,6- nonafluoro-3,4-bis(trifluoromethyl)-	1882109-81-0				
Hexanoic acid, 2,3,3,4,4,5,6,6,6- nonafluoro-2,5-bis(trifluoromethyl)-	1882109-80-9				
Hexanoic acid, 2,2,3,3,4,5,5,6,6,6- decafluoro-4-(1,1,2,2,2-pentafluoroethyl)-	1882109-79-6				
Hexanoic acid, 2,2,3,4,4,5,5,6,6,6- decafluoro-3-(1,1,2,2,2-pentafluoroethyl)-	1882109-78-5				
Pentanoic acid, 2,3,3,4,4,5,5,5-octafluoro- 2-(1,1,2,2,3,3,3-heptafluoropropyl)-	1882109-77-4				
Pentanoic acid, 2,3,3,4,4,5,5,5-octafluoro- 2-[1,2,2,2-tetrafluoro-1- (trifluoromethyl)ethyl]-	1882109-76-3				
Pentanoic acid, 2,2,3,5,5,5-hexafluoro- 3,4,4-tris(trifluoromethyl)-	1882109-75-2				
Pentanoic acid, 2,2,4,5,5,5-hexafluoro- 3,3,4-tris(trifluoromethyl)-	1882109-74-1				
Pentanoic acid, 2,3,3,5,5,5-hexafluoro- 2,4,4-tris(trifluoromethyl)-	1882109-73-0				

Applied Materials Restricted and Declarable Substances List						
Material Category "List" means limited to the listing, "Examples" means non-exhaustive	CAS Number	Prohibition Type (Banned / Disclosed)	Threshold for Disclosure (based on Item's total weight, unless otherwise noted)	Industry Uses	Reason for Inclusion	
Pentanoic acid, 2,3,4,5,5,5-hexafluoro- 2,3,4-tris(trifluoromethyl)-	1882109-72-9					
Pentanoic acid, 2,4,4,5,5,5-hexafluoro- 2,3,3-tris(trifluoromethyl)-	1882109-71-8					
Pentanoic acid, 3,3,4,5,5,5-hexafluoro- 2,2,4-tris(trifluoromethyl)-	1882109-70-7					
Pentanoic acid, 2,2,3,4,5,5,5-heptafluoro- 3-(1,1,2,2,2-pentafluoroethyl)-4- (trifluoromethyl)-	1882109-68-3					
Pentanoic acid, 2,2,4,4,5,5,5-heptafluoro- 3-(1,1,2,2,2-pentafluoroethyl)-3- (trifluoromethyl)-	1882109-67-2					
Pentanoic acid, 2,3,4,4,5,5,5-heptafluoro- 3-(1,1,2,2,2-pentafluoroethyl)-2- (trifluoromethyl)-						
Pentanoic acid, 2,3,3,4,5,5,5-heptafluoro- 2-(1,1,2,2,2-pentafluoroethyl)-4- (trifluoromethyl)-						
Pentanoic acid, 2,3,4,4,5,5,5-heptafluoro- 2-(1,1,2,2,2-pentafluoroethyl)-3- (trifluoromethyl)-	1882109-64-9					
Pentanoic acid, 3,3,4,4,5,5,5-heptafluoro- 2-(1,1,2,2,2-pentafluoroethyl)-2- (trifluoromethyl)-	1882109-63-8					
Pentanoic acid, 3,4,4,5,5,5-hexafluoro- 2,2,3-(trifluoromethyl)-	1882109-69-4					
Butanoic acid, 4,4,4-trifluoro-2,2,3,3- tetrakis(trifluoromethyl)-	1882109-62-7					
Butanoic acid, 2,3,4,4,4-pentafluoro-2- [1,2,2,2-tetrafluoro-1- (trifluoromethyl)ethyl]-3-(trifluoromethyl)-	1882109-61-6					
Butanoic acid, 2,3,3,4,4,4-hexafluoro-2- [2,2,2-trifluoro-1,1- bis(trifluoromethyl)ethyl]-	1882109-60-5					
Butanoic acid, 3,3,4,4,4-pentafluoro-2- [1,2,2,2-tetrafluoro-1- (trifluoromethyl)ethyl]-2-(trifluoromethyl)-	1882109-59-2					
Butanoic acid, 3,3,4,4,4-pentafluoro-2,2- bis(1,1,2,2,2-pentafluoroethyl)-	1882109-58-1					
Hexanoic acid, 2,2,4,4,5,5,6,6,6- nonafluoro-3,3-bis(trifluoromethyl)-	1812247-20-3					
Hexanoic acid, 2,3,3,4,5,5,6,6,6- nonafluoro-2,4-bis(trifluoromethyl)-	1812247-19-0					
Hexanoic acid, 2,3,4,4,5,5,6,6,6- nonafluoro-2,3-bis(trifluoromethyl)-	1812247-18-9					
Hexanoic acid, 3,3,4,4,5,5,6,6,6- nonafluoro-2,2-bis(trifluoromethyl)-	1812247-17-8					

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Material Category "List" means limited to the listing, "Examples" means non-exhaustive		Prohibition Type (Banned / Disclosed)	Threshold for Disclosure (based on Item's total weight, unless otherwise noted)	Industry Uses	Reason for Inclusion
Hexanoic acid, 2,2,3,3,5,5,6,6,6- nonafluoro-4,4-bis(trifluoromethyl)-	1192593-79-5				
Hexanoic acid, 2,2,3,3,4,5,6,6,6- nonafluoro-4,5-bis(trifluoromethyl)-	1144512-36-6				
Hexanoic acid, 2,2,3,4,4,5,6,6,6- nonafluoro-3,5-bis(trifluoromethyl)-	1144512-35-5				
Hexanoic acid, 2,2,3,3,4,4,6,6,6- nonafluoro-5,5-bis(trifluoromethyl)-	1144512-34-4				
Heptanoic acid, 2,2,3,3,4,5,5,6,6,7,7,7- dodecafluoro-4-(trifluoromethyl)-	1144512-18-4				
Heptanoic acid, 2,2,3,3,4,4,5,6,6,7,7,7- dodecafluoro-5-(trifluoromethyl)-	909009-42-3				
Heptanoic acid, 2,2,3,4,4,5,5,6,6,7,7,7- dodecafluoro-3-(trifluoromethyl)-	705240-04-6				
Heptanoic acid, 2,3,3,4,4,5,5,6,6,7,7,7- dodecafluoro-2-(trifluoromethyl)-	207678-51-1				
Isooctanoic acid, pentadecafluoro-	123116-17-6				
Hexanoic acid, 2,3,3,4,4,5,5,6,6,6- decafluoro-2-(1,1,2,2,2-pentafluoroethyl)-	35605-76-6				
Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7- dodecafluoro-6-(trifluoromethyl)-	15166-06-0				
Ammonium salt, linear/branched PFOA (Octanoic acid, pentadecafluoro-, branched, ammonium salt)	90480-56-1				
Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- pentadecafluoro-, ammonium salt (1:1) ; [Ammonium perfluorooctanoate]	3825-26-1				
Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- pentadecafluoro-, sodium salt (1:1); [Sodium perfluorooctanoate]	335-95-5				
Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- pentadecafluoro-, potassium salt (1:1); [Potassium perfluorooctanoate]	2395-00-8				
Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- pentadecafluoro-, silver(1+) salt (1:1); [Silver perfluorooctanoate]	335-93-3				
Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- pentadecafluoro-, chromium(3+) salt (3:1)	68141-02-6				

Appi			ted and Decla	arable Subsi	tances List
Material Category "List" means limited to the listing, "Examples" means non-exhaustive	CAS Number	Prohibition Type (Banned / Disclosed)	Threshold for Disclosure (based on Item's total weight, unless otherwise noted)	Industry Uses	Reason for Inclusion
Ethanaminium, N,N,N-triethyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- pentadecafluorooctanoate (1:1)	98241-25-9				
Hexanoic acid, 2,3,3,4,4,5,5,6,6,6- decafluoro-2-(1,1,2,2,2- pentafluoroethyl)- , ammonium salt (1:1)	13058-06-5				
Hexanoic acid, 2,3,3,4,4,5,5,6,6,6- decafluoro-2-(1,1,2,2,2-pentafluoroethyl)- , sodium salt (1:1)	1195164-59-0				
Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7- dodecafluoro-6-(trifluoromethyl)-, ammonium salt (1:1)	19742-57-5				
Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7- dodecafluoro-6-(trifluoromethyl)-, iron salt (1:x)	61436-04-2				
Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,- dodecafluoro-6-(trifluoromethyl)-, potassium salt (1:1)	29457-73-6				
Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7- dodecafluoro-6-(trifluoromethyl)- , sodium salt (1:1)	18017-22-6				
Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7- dodecafluoro-6-(trifluoromethyl)-, chromium salt (1:x)	15739-82-9				
Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7- dodecafluoro-6-(trifluoromethyl)-, aluminum salt (3:1)	15715-47-6				
PFOA-related Substances					
List	CAS Number				
1-Hexadecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12 ,12,13,13,14,14,15,15,16,16,16- nonacosafluoro-	60699-51-6				
1-Tetradecanol, 3,3,4,4,5,5,6,6,6,7,7,8,8,9,9,10,10,11,11,12 ,12,13,13,14,14,14-pentacosafluoro-	39239-77-5				
1-Dodecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12 ,12,12-heneicosafluoro-	865-86-1				
1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluoro-	678-39-7				
2-Pentadecanol, 1,1'-[oxybis[(1-methyl- 2,1- ethanediyl)oxy]]bis[4,4,5,5,6,6,7,7,8,8,9,9 ,10,10,11,11,12,12,13,13,14,14,15,15,15- pentacosafluoro-	93776-00-2				
Perfluorooctyl iodide	507-63-1				

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Material Category "List" means limited to the listing, "Examples" means non-exhaustive	CAS Number	Prohibition Type (Banned / Disclosed)	Threshold for Disclosure (based on Item's total weight, unless otherwise noted)	Industry Uses	Reason for Inclusion
Undecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10 ,11,11-tricosafluoro-11-iodo-	307-50-6				
Dodecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10 ,11,11,12,12-pentacosafluoro-12-iodo-	307-60-8				
Tetradecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10 ,11,11,12,12,13,13,14,14-nonacosafluoro 14-iodo-					
Pentadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10 ,11,11,12,12,13,13,14,14,15,15- hentriacontafluoro-15-iodo-	335-79-5				
Tridecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10 ,11,11,12,12,13,13-heptacosafluoro-13- iodo-	376-04-5				
Decane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10 heneicosafluoro-10-iodo-	423-62-1				
Nonane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9- nonadecafluoro-9-iodo-	558-97-4				
Decane, 1,1,1,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10- eicosafluoro-10-iodo-2-(trifluoromethyl)-	677-93-0				
Dodecane, 1,1,1,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,1 1,11,12,12-tetracosafluoro-12-iodo-2- (trifluoromethyl)-	3248-61-1				
Tetradecane, 1,1,1,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,1 1,11,12,12,13,13,14,14-octacosafluoro- 14-iodo-2-(trifluoromethyl)-	3248-63-3				
Decane, 1-bromo- 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,1 0-heneicosafluoro-	307-43-7				
Alkyl iodides, C6-18, perfluoro	90622-71-2				
Phosphinic acid, bis(perfluoro-C6-12- alkyl) derivs.	68412-69-1				
Phosphinic acid, bis(perfluoro-C6-12- alkyl) derivs., aluminum salts	93062-53-4				
2-Dodecenoic acid, 3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,1 2,12-eicosafluoro-					
Dodecanoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12 ,12,12-heneicosafluoro-	53826-13-4				

Applied Materials Restricted and Declarable Substances List						
Material Category "List" means limited to the listing, "Examples" means non-exhaustive	CAS Number	Prohibition Type (Banned / Disclosed)	Threshold for Disclosure (based on Item's total weight, unless otherwise noted)	Industry Uses	Reason for Inclusion	
2-Decenoic acid, 3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- hexadecafluoro-	70887-84-2					
Decanoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluoro-	27854-31-5					
1,2-Tridecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,13, 13,13-eicosafluoro-12-(trifluoromethyl)-, 1 (dihydrogen phosphate)	63295-27-2					
1,2-Pentadecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12, 13,13,14,15,15,15-tetracosafluoro-14- (trifluoromethyl)-, 1-(dihydrogen phosphate)	63295-28-3					
1,2-Heptadecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12, 13,13,14,14,15,15,16,17,17,17- octacosafluoro-16-(trifluoromethyl)-, 1- (dihydrogen phosphate)	63295-29-4					
1,2-Tridecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12, 13,13,13-heneicosafluoro-, 1-(dihydrogen phosphate)						
1,2-Tridecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12, 13,13,13-heneicosafluoro-, 1-(dihydrogen phosphate), diammonium salt						
1,2-Pentadecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12, 13,13,14,14,15,15,15-pentacosafluoro-, 1 (dihydrogen phosphate), diammonium salt						
1,2-Heptadecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12, 13,13,14,14,15,15,16,16,17,17,17- nonacosafluoro-, 1-(dihydrogen phosphate), diammonium salt	94200-48-3					
1,2-Tridecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,13, 13,13-eicosafluoro-12-(trifluoromethyl)-, 1 (dihydrogen phosphate), diammonium salt						
1,2-Pentadecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12, 13,13,14,15,15,15-tetracosafluoro-14- (trifluoromethyl)-, 1-(dihydrogen phosphate), diammonium salt	94200-51-8					
1,2-Heptadecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12, 13,13,14,14,15,15,16,17,17,17- octacosafluoro-16-(trifluoromethyl)-, 1- (dihydrogen phosphate), diammonium salt	94200-52-9					

			ted and Decla		tances List
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8:2 Fluorotelomer phosphate monoester; 1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluoro-, 1-(dihydrogen phosphate)	57678-03-2				
8:2 Fluorotelomer phosphate diester; 1- Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluoro-, 1,1'-(hydrogen phosphate)	678-41-1				
1-Dodecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12 ,12,12-heneicosafluoro-, 1-(dihydrogen phosphate)	57678-05-4				
1-Dodecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12 ,12,12-heneicosafluoro-, 1,1'-(hydrogen phosphate)	1895-26-7				
2-Propenoic acid, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12, 13,13,14,14,15,15,16,17,17,17- octacosafluoro-2-hydroxy-16- (trifluoromethyl)heptadecyl ester	16083-78-6				
2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12 ,12,13,13,14,14,15,15,16,16,16- nonacosafluorohexadecyl ester	4980-53-4				
2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12 ,12,13,13,14,14,14- pentacosafluorotetradecyl ester	6014-75-1				
2-Propenoic acid, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12, 13,13,14,15,15,15-tetracosafluoro-2- hydroxy-14-(trifluoromethyl)pentadecyl ester	16083-87-7				
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12, ,12,13,14,14,14-tetracosafluoro-13- (trifluoromethyl)tetradecyl ester	52956-82-8				
2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12, 12,12-heneicosafluorododecyl ester, polymer with 3,3,4,5,5,6,6,7,7,8,8,9,9, 10,10,10-heptadecafluorodecyl 2-methyl- 2-propenoate, methyl 2-methyl-2- propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10, 10,11,11,12,12,13,13,14,14,14- pentacosafluorotetradecyl 2-methyl-2- propenoate and 3,3,4,4,5,5,6,6, 7,7,8,8,8- tridecafluorooctyl 2-methyl-2-propenoate	65104-45-2				
2-Propenoic acid, 2-methyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- pentadecafluorooctyl ester, polymer with 2-propenoic acid	53515-73-4				

Applied Materials Restricted and Declarable Substances List						
Material Category "List" means limited to the listing, "Examples" means non-exhaustive	CAS Number	Prohibition Type (Banned / Disclosed)	Threshold for Disclosure (based on Item's total weight, unless otherwise noted)	Industry Uses	Reason for Inclusion	
2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12 ,12-eicosafluoro-11- (trifluoromethyl)dodecyl ester	74256-14-7					
2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12, 12,13,14,14,14-tetracosafluoro-13- (trifluoromethyl)tetradecyl ester 2-Propenoic acid, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,	74256-15-8 16083-87-7					
13,13,14,15,15,15-tetracosafluoro-2- hydroxy-14-(trifluoromethyl)pentadecyl ester 2-(Perfluorodecyl) ethyl acrylate; 2-	17741-60-5					
Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12, ,12,12-heneicosafluorododecyl ester						
2-(Perfluorodecyl) ethyl methacrylate; 2- Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12 ,12,12- heneicosafluorododecyl ester	2144-54-9					
8:2 Fluorotelomer acrylate; 2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl ester	27905-45-9					
8:2 Fluorotelomer methacrylate; 2- Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl ester	1996-88-9					
2-Propenoic acid, γ-ω-perfluoro-C8-14- alkyl esters	85631-54-5					
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12 ,12,13,13,14,14,15,16,16,16- octacosafluoro-15- (trifluoromethyl)hexadecyl ester	91615-22-4					
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12, ,12,13,13,14,14,15,15,16,16,17,18,18,18- dotriacontafluoro-17- (trifluoromethyl)octadecyl ester	94158-63-1					
2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12 ,12,13,13,14,14,15,16,16,16- octacosafluoro-15- (trifluoromethyl)hexadecyl ester	94158-64-2					
2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12 ,12,13,13,14,14,15,15,16,16,17,18,18,18- dotriacontafluoro-17- (trifluoromethyl)octadecyl ester	94158-65-3					
Decane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8- heptadecafluoro-10-iodo-	2043-53-0					

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Material Category "List" means limited to the listing, "Examples" means non-exhaustive	CAS Number	Prohibition Type (Banned / Disclosed)	Threshold for Disclosure (based on Item's total weight, unless otherwise noted)	Industry Uses	Reason for Inclusion
Dodecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10 heneicosafluoro-12-iodo-	2043-54-1				
Tetradecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10 ,11,11,12,12- pentacosafluoro-14-iodo-	30046-31-2				
Hexadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10 ,11,11,12,12,13,13,14, 14- nonacosafluoro-16-iodo-	65510-55-6				
Undecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9- nonadecafluoro-11-iodo-	65510-56-7				
Alkyl iodides, C4-20, γ-ω-perfluoro	68188-12-5				
Alkyl iodides, C10-12, γ-ω-perfluoro	68390-33-0				
1-Propanaminium, <i>N</i> -(2-carboxyethyl)- <i>N</i> , <i>N</i> - dimethyl-3- [(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12, 12,13,13,14,14,15,15,15-pentacosafluoro 2-hydroxypentadecyl) amino]-, inner salt	93776-12-6				
1-Propanaminium, <i>N</i> - (2-carboxyethyl)-3- [(4,4,5,5,6,6,7,7,8,8,9,9,10,10, 11,11,12,12,13,13,13-heneicosafluoro-2- hydroxytridecyl)amino] - <i>N</i> , <i>N</i> -dimethyl-, inner salt	93776-13-7				
1-Propanaminium, <i>N</i> -(2-carboxyethyl)- <i>N</i> , <i>N</i> - dimethyl-3- [[4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12, 12,13,13,14,15,15,15-tetracosafluoro-2- hydroxy-14- (trifluoromethyl)pentadecyl]amino]-, inner salt	93776-15-9				
2-Tridecanol, 1-[[3- (dimethylamino)propyl]amino]- 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,13, 13,13-eicosafluoro-12-(trifluoromethyl)-	94159-83-8				
2-Pentadecanol, 1-[[3- (dimethylamino)propyl]amino]- 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12, 13,13,14,14,15,15,15-pentacosafluoro-	94159-79-2				
2-Tridecanol, 1-[[3- (dimethylamino)propyl]amino]- 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12, 13,13,13-heneicosafluoro-	94159-80-5				
2-Pentadecanol, 1-[[3- (dimethylamino)propyl]amino]- 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12, 13,13,14,15,15,15-tetracosafluoro-14- (trifluoromethyl)-	94159-82-7				

Applied Materials Restricted and Declarable Substances List						
Material Category "List" means limited to the listing, "Examples" means non-exhaustive		Prohibition Type (Banned / Disclosed)	Threshold for Disclosure (based on Item's total weight, unless otherwise noted)	Industry Uses	Reason for Inclusion	
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12, 12,12-heneicosafluorododecyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl 2-propenoate, hexadecyl 2-propenoate, N- (hydroxymethyl)-2-propenamide, octadecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12, 12,13,13,14,14,14- pentacosafluorotetradecyl 2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,8- tridecafluorooctyl 2-propenoate						
2-Propenoic acid, 2-methyl-, C10-16-alkyl esters, polymers with 2-hydroxyethyl methacrylate, Me methacrylate and γ-ω- perfluoro-C8-14-alkyl acrylate	129783-45-5					
2-Propenoic acid, dodecyl ester, polymers with Bu (1-oxo-2- propenyl)carbamate and γ-ω-perfluoro- C8-14-alkyl acrylate	144031-01-6					
Amides, C7-19, α-ω-perfluoro-N,N- bis(hydroxyethyl)	90622-99-4					
Piperazinium, 1-(carboxymethyl)-1-(2- hydroxyethyl)-4- (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- nonadecafluoro-1-oxodecyl)-, inner salt	71356-38-2					
2-Propenoic acid, perfluoro-C8-16-alkyl esters	85681-64-7					
2-Propenoic acid, 2-methyl-, C10-16-alkyl esters, polymers with 2- hydroxyethylmethacrylate, Me methacrylate and perfluoro-C8-14-alkyl acrylate	125328-29-2					
Fatty acids, C7-13, perfluoro	68333-92-6					
Fatty acids, C7-19, perfluoro	91032-01-8					
Fatty acids, C7-13, perfluoro, ammonium salts	72968-38-8					
Bis(perfluorooctyl)phosphinic acid	40143-79-1					
Perfluorohexylperfluorooctyl phosphinate	610800-34-5					
Propanamide, 3-[(γ-ω-perfluoro-C4–10- alkyl)thio] derivatives	68187-42-8					
Thiols, C8-20, γ-ω-perfluoro, telomers with acrylamide	70969-47-0					
Carbamic acid, [2-(sulphothio)ethyl]-, C- (γ-ω-perfluoro-C6–9-alkyl) esters, monosodium salts	95370-51-7					
1,3-Propanediol, 2,2-bis[[(γ-ω-perfluoro- C4–10-alkyl)thio]methyl] derivatives, phosphates, ammonium salts	148240-85-1					
1,3-Propanediol, 2,2-bis[[(γ-ω-perfluoro- C6–12-alkyl)thio]methyl] derivatives, phosphates, ammonium salts	148240-87-3					

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Material Category "List" means limited to the listing, "Examples" means non-exhaustive	CAS Number	Prohibition Type (Banned / Disclosed)	Threshold for Disclosure (based on Item's total weight, unless otherwise noted)	Industry Uses	Reason for Inclusion
1,3-Propanediol, 2,2-bis[[(γ-ω-perfluoro- C10-20-alkyl)thio]methyl] derivs., phosphates, ammonium salts	148240-89-5				
Oxirane, methyl-, polymer with oxirane, mono[2-hydroxy-3-[(γ-ω-perfluoro-C8-20- alkyl)thio]propyl] ethers	183146-60-3				
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12, 12,12-heneicosafluorododecyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl 2-propenoate, alpha-(2-methyl-1-oxo-2-propenyl)- omega-[(2-methyl-1-oxo-2-propenyl)- omega-[(2-methyl-1-oxo-2- propenyl)ox]poly(oxy-1, 2-ethanediyl), 10,11,11,12,12,13,13,14,14,14- 16,17,17,18,18,18- tritriacontafluorooctadecyl 2-propenoate 11,11,12,12,13,13,14,14,15,15,16,pentac osafluorotetradecyl 2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,3,3,4,4,5 5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,1 3,14,14,15,15,16,16,16- nonacosafluorohexadecyl 2-propenoate, octadecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,					
Pentanoic acid, 4,4-bis[(γ-ω-perfluoro-C8 20-alkyl)thio]derivs., compds. with diethanolamine	71608-61-2				
	1163-19-5	Product General ban	0 ppm	Flame retardant in plastic enclosures for televisions, computers, audio and video equipment, textiles and upholstered articles, wire and cables for communication and electronic equipment, and other applications	
Phenol, isopropylated phosphate (3:1) (PIP (3:1)	68937-41-7	Product General ban	0 ppm	Plasticizer, flame- retardant, anti-wear additive, or anti- compressibility additive in hydraulic fluid, lubricating oils, lubricants and greases, various industrial coatings, adhesives, sealants, and plastic articles.	US TSCA (40 CFR Part 751)

			ted and Decla		
Material Category "List" means limited to the listing, "Examples" means non-exhaustive	CAS Number	Prohibition Type (Banned / Disclosed)	Threshold for Disclosure (based on Item's total weight, unless otherwise noted)	Industry Uses	Reason for Inclusion
2,4,6-tris(tert-butyl) phenol (2,4,6- TTBP)	732-26-3	Banned in chemical only	<3000 ppm	lintermediate/reactan t in processing; incorporated into formulations destined for fuel and fuel-related additives.	US TSCA (40 CFR Part 751)
Hexachlorobutadiene (HCBD)	87-68-3	Product General ban	0 ppm	Used as a halogenated aliphatic hydrocarbon that is produced as a byproduct during the manufacture of chlorinated hydrocarbons.	
Pentachlorothiophenol (PCTP)	133-49-3	Product General ban	<10000 ppm	Used to make rubber more pliable.	US TSCA (40 CFR Part 751)
Long chain Perfluorocarboxylic acids (PFCAs C9-C14), its salts and related substances	NA	Product General ban	25 ppb for the sum ofd C9-C14 PFCAs and their salts or	Production of polytetrafluroethylen e (PTFE) and polyvinyledene fluoride (PVDF), surfactants, lubricants, repellers, sealants, filter	EU REACH Regulations
			200 ppb for the sum of C9-C14 PFCAs related substances		
A17-Perfluorohexane-1-sulfonic acid and its salts (PFHxS)	NA	Product General ban	0 ppm	May be used as a plasticizer, lubricant, surfactant, wetting agent, corrosion inhibitor and in fire- fighting foams.	EU POP Regulation
A18-Brominated Flame Retardants (other than PBBs and PBDEs)	NA	NA	0 ppm	Common flame retardant in thermoplastic (e.g., keyboards, housings)	California Prop 65; US ban
List	CAS Number				
Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(14) [Aliphatic/alicyclic brominated compounds]					
Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(15) [Aliphatic/alicyclic brominated compounds in combination with antimony compounds]					
Compounds: Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(16) [Aromatic brominated compounds excluding brominated diphenyl ether and biphenyls]					

			ted and Decla		
Material Category "List" means limited to the listing,	CAS Number	Prohibition Type (Banned /	Threshold for Disclosure	Industry Uses	Reason for Inclusion
"Examples" means non-exhaustive		Disclosed)	(based on Item's total		
			weight, unless		
			otherwise noted)		
Brominated flame retardant which comes					
under notation of ISO 1043-4 code number FR(17)					
[Aromatic brominated compounds,					
excluding brominated diphenyl ether and					
biphenyls, in combination with antimony compounds					
Brominated flame retardant which comes					
under notation of ISO 1043-4 code					
number FR(22) [Aliphatic/alicyclic chlorinated and					
brominated compounds]					
Brominated flame retardant which comes					
under notation of ISO 1043-4 code number FR(42)					
[Brominated organic phosphorous					
compounds]	00000 4 : -				
Poly(2,6-dibromo-phenylene oxide)	69882-11-7				
Tetra-decabomo-diphenoxy-benzene	58965-66-5				
1,2-Bis(2,4,6-tribromo-phenoxy) ethane	37853-59-1				
3,5,3',5'-Tetrabromo-bisphenol A (TBBA)	79-94-7				
TBBA, unspecified	30496-13-0				
TBBA-epichlorohydrin oligomer	40039-93-8				
TBBA-TBBA-diglicidyl-ether oligomer	70682-74-5				
TBBA carbonate oligomer	28906-13-0				
TBBA carbonate oligomer, phenoxy end	94334-64-2				
capped					
TBBA carbonate oligomer, 2,4,6-tribromo	71342-77-3				
phenol terminated TBBA-bisphenol A-phosgene polymer	32844-27-2				
Brominated epoxy resin end-capped with	139638-58-7				
tribromophenol					
Brominated epoxy resin end-capped with tribromophenol	135229-48-0				
TBBA-(2,3-dibromo-propyl-ether	21850-44-2				
TBBA-bis-(2-hydroxy-ethyl-ether)	4162-45-2				
TBBA-bis-(allyl-ether)	25327-89-3				
TBBA-dimethyl-ether	37853-61-5				
Tetrabromo-bisphenol S	39635-79-5				
TBBS-bis-(2,3-dibromo-propyl-ether)	42757-55-1				
2,4-Dibromo-phenol	615-58-7				
2,4,6-Tribromo-phenol	118-79-6				
Pentabromo-phenol	608-71-9				
2,4,6-Tribromo-phenyl-allyl-ether	3278-89-5				
Tribromo-phenyl-allyl-ether, unspecified	26762-91-4				
noromo-prienyi-aliyi-etner, unspecified	20102-91-4				
Bis(methyl)tetrabromo-phtalate	55481-60-2				
Bis(2-ethylhexyl)tetrabromo-phtalate	26040-51-7				
2-Hydroxyl-propyl-2-(2-hydroxyl-ethoxy)-	20566-35-2	1			
ethyl-TBP TPPA, glycol-and propylene-oxide esters	75790-69-1				
	19190-08-1				
N,N'-Ethylene-bis-(tetrabromo-	32588-76-4				
phthalimide) Ethylene-bis85,6-dibromo-nornane-2,3-	52907-07-0				
dicarboximide 2,3-Dibromo-2-butene-1,4-diol	3234-02-4				
Dibromo-neopentyl-glycol	3296-90-0		}		
Dibromo-propanol	96-13-9		<u> </u>		
Tribromo-neopentyl-alcohol	36483-57-5				
пытотно-пеоренцуг-агсопог	30403-57-5				<u> </u>

		Prohibition Type	ted and Decl		
Material Category "List" means limited to the listing, "Examples" means non-exhaustive	CAS Number	Prohibition Type (Banned / Disclosed)	Inresnoid for Disclosure (based on Item's total weight, unless otherwise noted)	Industry Uses	Reason for Inclusion
Poly tribromo-styrene	57137-10-7				
Tribromo-styrene	61368-34-1				
Dibromo-styrene grafted PP	171091-06-8				
Poly-dibromo-styrene	31780-26-4				
Bromo-/Chloro-paraffins	68955-41-9				
Bromo-/Chloro-alpha-olefin	82600-56-4				
Vinylbromide	593-60-2				
Tris-(2,3-dibromo-propyl)-isocyanurate	52434-90-9				
Tris(2,4-dibromo-phenyl) phosphate	49690-63-3				
Trish(tribromo-neopentyl) phosphate	19186-97-1				
Chlorinated and brominated phosphate esther	125997-20-8				
Pentabromo toluene	87-83-2	1	1		
Pentabromo-benzyl bromide	38521-51-6				
1,3-Butadiene homopolymer, brominated	68441-46-3				
Pentabromo-benzyl-acrylate, monomer	59447-55-1				
Pentabromo-benzyl-acrylate, polymer	59447-57-3				
Decabromo-diphenyl-ethane	84852-53-9				
Tribromobisphenyl-maleinimide	59789-51-4				
Brominated trimethylphenyl-lindale	59789-51-4				
Other Brominated Flame Retardants	various				
Hexabromo-cyclo-dodecane (HBCD),	3194-55-6				
unspecified Tetrabromo-cyclo-octane	31454-48-5				
1,2-dibromo-4-(1,2 dibromo-methyl)-cyclo hexane					
TBPA Na salt	25357-79-3				
Tetrabromo phthalic-anhydride	632-79-1				
Level B Materials - Reportable / Declarables - Including Conflict Minerals					
B1 - Antimony and Antimony compounds	various	NA	0 ppm	Solder alloy, antimony trioxide as flame retardant synergyst in plastic housings (e.g., power chargers) and chip encapsulant. CRT glass. It typically has been used in combination with brominated flame retardant and PVC.	Toxic to Reproduction. REACH Restrictions
Examples Antimony (metallic)	CAS Number 7440-36-0		+		
Antimony trioxide	1309-64-4				
Antimony pentoxide	1314-60-9				
Antimony pentasulfide	1315-04-4				
Antimony trichloride	10025-91-9				
Antimony trifluoride	7783-56-4				
Antimony trisulfide	1345-04-6				
Antimony mercaptan	na				
Gallium antimonide	12064-03-8				
Indium antimonide	12064-03-8				
	1012-41-0		<u> </u>		

Material Category		Prohibition Type	Threshold for	Industry Uses	tances List Reason for Inclusion
"List" means limited to the listing, "Examples" means non-exhaustive		(Banned / Disclosed)	Disclosure (based on Item's total weight, unless otherwise noted)	industry uses	
Sodium antimonide	na				
Other antimony compounds	various				
B2 - Arsenic and Arsenic compounds	various	Disclosed	1000 ppm	Arsenic is used as dopant in semiconductor manufacture.	EU - REACH Regulation and amendments; Toxic, carcinogenic, Customer inquiries
Examples	CAS Number				
Arsenic	7440-38-2				
Arsenic pentoxide	1303-28-2				
Arsenic trioxide	1327-53-3				
Arsenic pentasulfide	1303-34-0				
Arsenic trisulfide	1303-33-9				
Gallium arsenide	1303-00-0				
Calcium arsenate	7778-44-1				
Calcium arsenite	27152-57-4				
Potassim arsenite	10124-50-2				
Potassium arsenate	7784-41-0				
Lead arsenate	3687-31-8				
10,10'-Oxybis-10H-phenoxarsine	58-36-6				
Other arsenic compounds	various				
B3 - Beryllium and Beryllium compounds	various	Disclosed	1000 ppm	Used as alloy with copper for electrical contacts and springs,	Toxic, Customer inquiries
Examples	CAS Number				
Beryllium	7440-41-7				
Beryllium-alluminum alloy	12770-50-2				
Beryllium chloride	7787-47-5				
Beryllium fluoride	7787-49-7				
Beryllium hydroxide	13327-32-7				
Beryllium oxide	1304-56-9				
Beryllium phosphate	13598-15-7				
Beryllium sulfate	13510-49-1				
Beryllium sulfate tetrahydrate	7787-56-6				
Beryl ore	1302-52-9				
Other beryllium compounds B4 - Bismuth and Bismuth compounds	various various	Disclosed	1000 ppm	Electronic equipment	Negative for recycling
Examples	CAS Number				
Bismuth	7440-69-9				
Bismuth trioxide	1304-76-3				
Bismuth nitrate	10361-44-1				
Other bismuth compounds	various				
B5 - Nickel and Nickel compounds [Nickel alloys are not reportable. Nickel and nickel compounds must be reported when used in applications where nickel compounds are likely to result in prolonged skin exposure.]	various	NA	0.28 μg/cm2/week leach rate	Surface finish, anticorrosion, seed layer for immersion- less gold surface finish.	EU - REACH Regulation and amendments; Customer inquiries
Examples	CAS Number				
Nickel	7440-02-0				
Nickel acetate	373-02-4				
Nickel carbonate	3333-67-3				
Nickel carbonyl	13463-39-3				

Material Category		Prohibition Type	ted and Decl	Industry Uses	Reason for Inclusion
Material Category "List" means limited to the listing, "Examples" means non-exhaustive	CAS Number	Prohibition Type (Banned / Disclosed)	Inresnoid for Disclosure (based on Item's total weight, unless otherwise noted)	industry Uses	Reason for inclusion
Nickel hydroxide	12054-48-7 or 11113-74-9				
Nickel ocene	1271-28-9				
Nickel oxide	1313-99-1				
Nickel sulfide	12035-72-2				
Nickel dioxide	12035-36-8				
Nickel (II) hydroxide	12054-48-7				
Other nickel compounds	various				
B6 - Phthalates	various	Disclosed	1000 ppm	Plasticizer, additives PVC electrical cables	EU - REACH Regulation and amendments; Customer inquiries
List	CAS Number				
Diisononyl phthalate (DINP)	28553-12-0				
Diethyl phthalate	84-66-2				
Dimethyl phathalate	131-11-3				
Diheptyl phathalate	3648-21-3				
Diisonoryl phathalate	28553-12-0				
Ditridecyl phathalate	119-06-2				
Dicyclohexyl phathalate	84-67-7				
Di-sec-octyl phthalate (DEHP)	117-81-7				
Dibutyl phthalate (DBP)	84-74-2				
Diisodecyl phthalate	26761-40-0				
Bis(n-octyl) phthalate (DNOP)	117-84-0				
Butyl benzyl phthalate (BBP)	85-68-7				
B7 - Selenium and Selenium compounds	various	Disclosed	1000 ppm	Used in diodes and light detectors (lead selenide). Historically used as photoelectric coating.	
Examples	CAS Number				
Selenium and materials	7782-49-2				
Hydrogen selenide	7783-07-5				
Sodium selenide	1313-85-5				
Selenium dioxide	7446-08-4				
Sodium selenade	10112-94-4				
Dimethyl selenide	593-79-3				
Selenium oxide	12640-89-0				
Other selenium compounds	various				
B8 - Vinyl Chloride Polymer (PVC)	9002-86-2	Disclosed	1000 ppm	Plastic, housings, cables, flexible CD jackets	EU - REACH Regulations and amendments Customer inquiries
B9 - Tin and Tin compounds	various	Disclosed	Intentionally added	Solder, semiconductors, printed circuits boards	US Dodd-Frank Act (Conflict Minerals Rule) Customer inquiries
Examples	CAS Number				
Tin (metal)	7440-31-5		1		
Tin (IV) Oxide, Stannic Oxide	18282-10-5				
B10 - Tungsten and Tungsten compounds	various	Disclosed	Intentionally added	Semiconductors, PVD targets	US Dodd-Frank Act (Conflict Minerals Rule) Customer inquiries

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Material Category "List" means limited to the listing, "Examples" means non-exhaustive	CAS Number	Prohibition Type (Banned / Disclosed)	Threshold for Disclosure (based on Item's total weight, unless otherwise noted)	Industry Uses	Reason for Inclusion
Examples	CAS Number				
Tungsten (metal)	7440-33-7				
Tungsten (VI) oxide	1314-35-8				
Tungsten (IV) oxide	12036-22-5				
B11 - Tantalum and Tantalum compounds	various	Disclosed	Intentionally added	Semiconductors, PVD targets	US Dodd-Frank Act (Conflict Minerals Rule) Customer inquiries
Examples	CAS Number				
Tantalum (metal)	7440-25-7				
Tantalum oxide	1314-61-0				
B12 - Gold and Gold compounds	various	Disclosed	Intentionally added	Semiconductors, PVD targets, printed circuits boards, connectors	US Dodd-Frank Act (Conflict Minerals Rule) Customer inquiries
<u>Examples</u> Gold (metal)	CAS Number 7440-57-5				
. ,	16961-25-4				
Gold(III) chloride trihydrate					
Gold(III) chloride hydrate	27988-77-8				
B13 - Cobalt and Cobalt compounds	various	Disclosed	Intentionally added	Semiconductors, PVD targets	Customer inquiries
Examples	CAS Number				
Cobalt (metal)	7440-48-4				
Cobalt (II) acetate	71-48-7				
Cobalt (III) acetate	917-69-1				
Cobalt (II) oxide	1307-96-6				
Cobalt (III) oxide	1308-04-9				
Per- and polyfluoroalkyl substances (PFAS) as defined in TSCA Section 8(a)(7) (40 CFR 705.3): any chemical substance or mixture containing a chemical substance that structurally contains at least one of the following three sub-structures: PFAS not included in the definition under TSCA Section 8(a)(7) but within scope of the following definition: 1.Non-polymeric PFAS Group: a.Perfluoroalkyl acids, including but not limited to perfluoroalkyl carboxylic acids and perfluoroalkane sulfonic acids; b.Compounds derived from perfluoroalkane sulfonyl fluoride (PASF); c.Fluorotelomer (FT)-based compounds; and d.Per- and polyfluoroalkyl ether (PFPE) – based compounds. 2.Polymeric PFAS Group: a.Fluoropolymers c.Perfluoropolyethers		NA	Intentionally added	PFAS chemicals are used in articles such as cables, harnesses, plastics, coated screws, cooling tanks, monitors/sensors, o- rings, seals, tank covers, tubing and fittings (rigid or flexible), liquid delivery systems and more. They are also used in lubricants and greases.	U.S. Toxic Substances and Control Act (TSCA) Section 8(a)(7); potential or known human health and/or environmental risks; may be persistent and bioaccumulative

Material Category "List" means limited to the listing, "Examples" means non-exhaustive	CAS Number	Prohibition Type (Banned / Disclosed)	Threshold for Disclosure (based on Item's total weight, unless otherwise noted)	Industry Uses	Reason for Inclusion
PFAS not included in the definition under TSCA Section 8(a)(7) but within scope of the following definition: 1.Non-polymeric PFAS Group: a.Perfluoroalkyl acids, including but not limited to perfluoroalkyl carboxylic acids and perfluoroalkane sulfonic acids; b.Compounds derived from perfluoroalkane sulfonyl fluoride (PASF); c.Fluorotelomer (FT)-based compounds; and d.Per- and polyfluoroalkyl ether (PFPE) – based compounds, 2.Polymeric		NA	Intentionally added	as cables,	OECD Definition: https://www.oecd.org/chemicalsafety/po rtal-perfluorinated- chemicals/aboutpfass/
					PFAS regulations other than TSCA 8(a)(7) may leverage the OECD definition; customer inquiries