



**Materials Disclosure Specification
12G02897W18 Revision M
Reference List of Substances**

SUBSTANCE	CAS #	SUBSTANCE CATEGORY	INDUSTRY USES	MOTOROLA DESIGNATION	REPORTING THRESHOLD (ppm at a homogenous level unless otherwise indicated)
4-Aminobiphenyl	92-67-1			Reportable	100
Aluminum and aluminum compounds	7429-90-5 and others	Metals and metal compounds		Reportable	100
Amines, aliphatic	Various	Aliphatic amines		Reportable	100
Aniline salts	Various	Aromatic Amines & Dyes		Reportable	100
Anthracene	120-12-7	Anthracene		Reportable	100
Antimony and antimony compounds	See Supplementary Table	Metals and metal compounds	Metal alloys and coating materials, flame retardant	Reportable	100
Aromatic amines and dyes	See Supplementary Table	Aromatic Amines & Dyes	Dyes, antioxidants, lubricants, rubbers, plastics	Reportable	100
Aromatic compounds as monomers (except where listed separately)	See Supplementary Table	Aromatic compounds as monomers		Reportable	100
Arsenic and arsenic compounds	See Supplementary Table	Metals and metal compounds	Hardening copper, lead, other metal alloys; glass, metal refinement	Controlled	100
Asbestos, asbestos compounds	See Supplementary Table	Asbestos	Friction linings, gaskets, insulation	Banned	-
Azo Dyes in leathers and textiles	Various			Controlled	1
Barium compounds, except barium sulfate	Various	Metals and metal compounds	Pigments, additives in lubricants	Reportable	100
Beryllium and beryllium compounds	See Supplementary Table	Metals and metal compounds	Electronic contact, heat spreaders	Reportable	100
Bismuth and Bismuth compounds	7440-69-9 and others			Reportable	100
Brominated Flame Retardants (other than PBBs or PBDEs) (e.g. Tetrabromobisphenol-A)	See Supplementary Table		Flame retardant	Controlled	100
Cadmium and cadmium compounds	See Supplementary Table	Metals and metal compounds	Pigments, polymer stabilizer, surface protection of metals, batteries	Controlled	10



**Materials Disclosure Specification
12G02897W18 Revision M
Reference List of Substances**

SUBSTANCE	CAS #	SUBSTANCE CATEGORY	INDUSTRY USES	MOTOROLA DESIGNATION	REPORTING THRESHOLD (ppm at a homogenous level unless otherwise indicated)
Certain shortchain chlorinated paraffins	See Supplementary Table	Chloroparaffin		Reportable	100
Chlorofluorocarbons and halons (Class I and II Ozone Depleting Chemicals)	See Supplementary Table	Chlorofluorocarbons and halons	Refrigerants, fire protection	Banned	-
Chromium (VI) compounds [in EEE]	See Supplementary Table	Metals and metal compounds	Corrosion protection, packaging, and packaging inks	Controlled	100
Chromium (VI) compounds [in leather and textiles]	See Supplementary Table	Metals and metal compounds	Dyes, inks	Controlled	1
Chromium(III) and chromium(III) compounds	16065-83-1 and others	Metals and metal compounds	Alloying component, metallic finish, stainless steel	Reportable	100
Cobalt and Cobalt compounds	7440-48-4 and others	Metals and metal compounds		Reportable	100
Copper and copper compounds	7440-50-8 and others	Metals and metal compounds	Metal alloys, soldering allys, conductor, stabilizer	Reportable	100
Ethylene Glycol Monoethyl Ether and its acetate	See Supplementary Table		Traditionally used as solvent in semiconductor manufacturer. May be used in PWB solder mask, coatings and flux	Controlled	1
Ethylene Glycol Monomethyl Ether and its acetate	See Supplementary Table		Traditionally used as solvent in semiconductor manufacturer. May be used in PWB solder mask, coatings and flux	Controlled	1
Ferrosilicon and alloys	Various			Reportable	100
Gold and gold compounds	7440-57-5 and others	Metals and metal compounds	Conductor, metal alloys, wires, contacts	Reportable	100
Halogenated aromatic compounds as monomers	See Supplementary Table	Halogenated aromatic compounds		Reportable	100



Materials Disclosure Specification
12G02897W18 Revision M
Reference List of Substances

SUBSTANCE	CAS #	SUBSTANCE CATEGORY	INDUSTRY USES	MOTOROLA DESIGNATION	REPORTING THRESHOLD (ppm at a homogenous level unless otherwise indicated)
Halogenated dioxins and furans	See Supplementary Table	Halogenated dioxins and furans		Banned	-
Halogenates that produce acidic vapor with water	Various	Halogenates that produce acidic vapor w/water		Reportable	100
Iron and iron compounds	Various	Metals and metal compounds		Reportable	100
Lead and lead compounds [in EEE]	301-04-2, 7439-92-1, 7446-14-2, 10099-74-8, 15739 80-7 and others	Metals and metal compounds	Corrosion protection, pigments, additive for cathodic elpo process, soldering alloys, metal alloys, batteries	Controlled	100
Lead in cable jackets	301-04-2, 7439-92-1, 7446-14-2, 10099-74-8, 15739 80-7 and others	Metals and metal compounds	Cable covering	Controlled	100
Magnesium and magnesium compounds	7439-95-4 and others	Metals and metal compounds		Reportable	100
Mercury and mercury compounds	See Supplementary Table	Metals and metal compounds	Switches, thermometers, barometers, pyrometers, lighting, pigments	Controlled	1
Nickel and nickel compounds	See Supplementary Table	Metals and metal compounds	Pigments, galvanic additive, bonderize additive, steel and other metal alloys	Reportable	100
Organic azo and azo-oxy compounds	Various	Organic azo and azo-oxy compounds		Reportable	100
Organic halogen compounds (except where listed separately)	See Supplementary Table	Organic halogen compounds		Reportable	100



**Materials Disclosure Specification
12G02897W18 Revision M
Reference List of Substances**

SUBSTANCE	CAS #	SUBSTANCE CATEGORY	INDUSTRY USES	MOTOROLA DESIGNATION	REPORTING THRESHOLD (ppm at a homogenous level unless otherwise indicated)
Organic phosphorous compounds	Various	Organic phosphorous compounds		Reportable	100
Organic silicon compounds	Various	Organic silicon compounds		Reportable	100
Palladium and palladium compounds	7440-06-4 and others	Metals and metal compounds		Reportable	100
Perchlorates	See Supplementary Table		Certain lithium batteries	Reportable	6 ppb
Perfluoro alkyl sulfonates (PFAS), and derivatives (including PFOS)	See Supplementary Table			Reportable	100
Perfluorocarbons	See Supplementary Table			Reportable	100
Phthalates	See Supplementary Table			Reportable	100
Polybrominated biphenyls (PBBs)	See Supplementary Table			Controlled	100
Polybrominated diphenyl ethers (PBDEs) (including Nonabromodiphenyl ether)	See Supplementary Table			Controlled	100
Polybrominated Terphenyls	Various			Reportable	100
Polychlorobiphenyls and derivatives (PCBs)	1336-36-3 1109769-1 11096-82-5 and others			Banned	-
Polychloroterphenyls and derivatives (PCTs)	61788-33-8 and others			Banned	-
PVC and vinyl chloride monomers	9002-86-2 75-01-4 75-35-4 900322-9 34149-92-3 25702-80-1		Cable covering	Controlled	100



**Materials Disclosure Specification
12G02897W18 Revision M
Reference List of Substances**

SUBSTANCE	CAS #	SUBSTANCE CATEGORY	INDUSTRY USES	MOTOROLA DESIGNATION	REPORTING THRESHOLD (ppm at a homogenous level unless otherwise indicated)
Radioactive substances	Various			Controlled	100
Selenium and selenium compounds	7782-49-2 and others	Metals and metal compounds		Reportable	100
Silver and silver compounds	7740-22-4 and others	Metals and metal compounds		Reportable	100
Small Fibers - All products containing fibers or fibrils 5um (microns), or less, in diameter with a length: diameter ratio equal to or greater than 3:1	Various	All products containing fibers or fibrils 5um (microns), or less, in diameter with a length to diameter ratio equal to or greater than 3:1		Reportable	100
Sulfur hexafluoride	2551-62-4			Reportable	100
Tantalum and tantalum compounds	7440-25-7 and others	Metals and compounds		Reportable	100
Tellurium and tellurium compounds	13494-80-9 and others	Metals and metal compounds		Reportable	100
Tetramethylthiuram disulfide (Thiram)	137-26-8			Reportable	100
Thallium and thallium compounds	7440-28-0	Metals and metal compounds	Artificial gems, electronic parts, sensors, alloying components	Reportable	100
Tin and tin compounds (Not TBT, TPT, or TBTOs)	7440-31-5 and others	Metals and metal compounds	soldering alloys, metallic alloys	Reportable	100
Tributyl Tin (TBT) and Triphenyl Tin (TPT)	See Supplementary Table	Metals and metal compounds		Reportable	100
Tributyl Tin Oxide (TBTO)	See Supplementary Table	Metals and metal compounds		Reportable	100
Zinc and zinc compounds	7440-66-6 and others	Metals and metal compounds		Reportable	100



Materials Disclosure Specification
12G02897W18 Revision M
Reference List of Substances

SUBSTANCE	CAS #	SUBSTANCE CATEGORY	INDUSTRY USES	MOTOROLA DESIGNATION	REPORTING THRESHOLD (ppm at a homogenous level unless otherwise indicated)
-----------	-------	--------------------	---------------	----------------------	----------------------------------------------------------------------------

MOTOROLA DESIGNATIONS

Banned: These substances are not allowed for use at any level unless noted as an exemption in the acceptance criteria.

Controlled: These substances are limited for use in the manufacturing process or in certain applications at the levels specified in Appendix C [of the 12G02897W18 Specification].

Reportable: These substances are not currently banned or controlled for use but a ban or voluntary phase-out is likely or they have an impact on the end-of-life management of the finished product.

Supplementary Table: This Table is intended to provide additional guidance, however, the substances on this list are not meant to be all-inclusive.

SUBSTANCE	CAS #	SUBSTANCE CATEGORY	INDUSTRY USES	MOTOROLA DESIGNATION	REPORTING THRESHOLD (ppm at a homogenous level unless otherwise indicated)
Antimony and antimony compounds				Reportable	100
Antimony Pentasulfide	1315-04-4				
Antimony Mercaptan					
Antimony Pentoxide	1314-60-9				
Antimony Trichloride	10025-91-9				
Antimony Trifluoride	7783-56-4				
Antimony Trioxide	1309-64-4				
Antimony Trisulfide	1345-04-6				
Gallium Antimonide	12064-03-8				
Indium Antimonide	1312-41-0				
Sodium Antimonide					
Antimony	7440-36-0				
	and others				



Materials Disclosure Specification
12G02897W18 Revision M
Reference List of Substances

SUBSTANCE	CAS #	SUBSTANCE CATEGORY	INDUSTRY USES	MOTOROLA DESIGNATION	REPORTING THRESHOLD (ppm at a homogenous level unless otherwise indicated)
Aromatic Amines and Dyes				Reportable	100
o-Aminoazotoluene	97-56-3				
4-Aminobiphenyl	92-67-1				
4-Aminobiphenyl salts	Various				
2-Amino-4-nitrotoluene salts	Various				
2-Amino-4-nitrotoluene	99-55-8				
Benzidine	92-87-5				
Benzidine Salts	Various				
p-Chloraniline salts	Various		hardener or cross linkage agent for		
p-Chloroaniline	106-47-8				
4-Chloro toluidine salts	Various				
4-Chloro-o-toluidine	95-69-2				
p-Cresidine salts					
p-Cresidine	120-71-8				
2,4-Diaminoanisol salts	Various				
2,4-Diaminoanisole	615-05-4				
4,4'-Diaminodiphenyl-methane salts	Various				
4,4'-Diaminodiphenylmethane	101-77-9				
3,3'-Dichloro benzidine salts	Various				
3,3'-Dichlorobenzidene	91-94-1				
3,3'-Dimethoxy benzidine salts	Various				
3,3'-Dimethoxybenzidine	119-90-4				
3,3'-Dimethylbenzidine salts	Various				
3,3'-Dimethylbenzidine	119-93-0				
3,3'-Dimethyl-4,4'-diaminodiphenylmethane salts	Various				
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0				
4,4'-Methylene-to (2-chloraniline) salts	Various				
4,4'-Methylenebis-(2-chloroaniline)	101-14-4				
2-Naphthylamine	134-32-7				
	91-59-8				
2-Naphthylamine salts	Various				
4,4'-Oxydianiline salts	Various				
4,4'-Oxydianiline	101-80-4				
2,4,5-Trimethylaniline salts	Various				



Materials Disclosure Specification
12G02897W18 Revision M
Reference List of Substances

SUBSTANCE	CAS #	SUBSTANCE CATEGORY	INDUSTRY USES	MOTOROLA DESIGNATION	REPORTING THRESHOLD (ppm at a homogenous level unless otherwise indicated)
2,4,5-Trimethylaniline	137-17-7				
2,4-Toluyldiamine salts	Various				
2,4-Toluylenediamine	95-80-7				
4,4'-Thiodianiline salts	Various				
4,4'-Thiodianiline	139-65-1				
m-Toluidine	108-44-1				
o-Toluidine	95-53-4				
p-Toluidine	106-49-0				
o-Toluidine salts	Includes but not limited to 95-69-2 and 3165-93-3				
Aromatic compounds as monomers (except where listed separately)				Reportable	100
Benzene	71-43-2				
Toluene	108-88-3				
	and others				
Arsenic and arsenic compounds				Controlled	100
Arsenic	7440-38-2				
Arsenic Pentasulfide	1303-34-0				
Arsenic Pentoxide	1303-28-2				
Arsenic Trioxide	1327-53-3				
Arsenic Trisulfide	1303-33-9				
Gallium Arsenide	1303-00-0				
10,10'-Oxybis-10H-phenoxarsine (OBPA)	58-36-6				
	and others				
Asbestos and asbestos compounds				Banned	-
Asbestos (General group)	1332-21-4				
Asbestos (General group)	132207-33-1				
Asbestos (General group)	77536-68-6				
Asbestos (General group)	77536-67-5				
Asbestos (General group)	77536-66-4				
Asbestos (General group)	132207-32-0				



Materials Disclosure Specification
12G02897W18 Revision M
Reference List of Substances

SUBSTANCE	CAS #	SUBSTANCE CATEGORY	INDUSTRY USES	MOTOROLA DESIGNATION	REPORTING THRESHOLD (ppm at a homogenous level unless otherwise indicated)
Actinolite	13768-00-8				
Amosite	12172-73-5				
Anthophyllite	17068-78-9				
Chrysotile	12001-29-5				
Crocidolite	12001-28-4				
Tremolite	14567-73-8				
Beryllium and beryllium compounds				Reportable	100
Beryl ore	1302-52-9				
Beryllium Oxide	1304-56-9				
Beryllium	7440-41-7				
Beryllium chloride	7787-47-5				
beryllium fluoride	7787-49-7				
beryllium sulfate tetrahydrate	7787-56-6				
Beryllium-aluminum alloy	12770-50-2				
Beryllium hydroxide	13327-32-7				
Beryllium phosphate	13598-15-7				
Zinc beryllium silicate	39413-47-3				
	and others				
Brominated Flame Retardants (other than PBBs or PBDEs)				Controlled	100
Tetrabromobisphenol-A	79-94-7		Flame retardant		
1,2-BENZENEDICARBOXYLIC ACID, 3,4,5,6-TETRABROMO-, BIS(2-ETHYLHEXYL)...	26040-51-7				
BIS(2-ETHYLHEXYL) TETRABROMOPHTHALATE	26040-51-7				
PHTHALIC ACID, TETRABROMO-, BIS(2-ETHYLHEXYL) ESTER	26040-51-7				
1,2-BIS(TETRABROMOPHTHALIMIDE)ETHANE	32588-76-4				
3,3',4,4',5,5',6,6'-OCTABROMO-N,N'-ETHYLENEDIPHTHALIMIDE	32588-76-4				
N,N'-ETHYLENEBIS(3,4,5,6-TETRABROMOPHTHALIMIDE)	32588-76-4				
PHTHALIMIDE, N,N'-ETHYLENEBIS(TETRABROMO- (8CI)	32588-76-4				



Materials Disclosure Specification
12G02897W18 Revision M
Reference List of Substances

SUBSTANCE	CAS #	SUBSTANCE CATEGORY	INDUSTRY USES	MOTOROLA DESIGNATION	REPORTING THRESHOLD (ppm at a homogenous level unless otherwise indicated)
BISPHENOL A, PHOSGENE, TETRABROMOBISPHENOL A POLYMER	32844-27-2				
CARBONIC DICHLORIDE, POLYMER WITH 4,4'-(1-METHYLETHYLIDENE)BIS(2,6-D...	32844-27-2				
PHENOL, 4,4'-(1-METHYLETHYLIDENE)BIS(2,6-DIBROMO-, POLYMER WITH (CHL...	40039-93-8				
BROMINATED BISPHENOL A EPOXY RESIN	40039-93-8				
3,5,3',5'-TETRABROMOBISPHENOL A, EPICHLOROHYDRIN POLYMER.	40039-93-8				
3,5,3',5'-TETRABROMOBISPHENOL A, EPICHLOROHYDRIN POLYMER	40039-93-8				
4,4'-(1-METHYLETHYLIDENE)BIS(2,6-DIBROMOPHENOL), (CHLOROMETHYL)OXIRA...	40039-93-8				
4,4'-(1-METHYLETHYLIDENE)BIS(2,6-DIBROMOPHENOL), EPICHLOROHYDRIN POL...	40039-93-8				
PHENOL, 4,4'-(1-METHYLETHYLIDENE)BIS(2,6-DIBROMO-, POLYMER WITH (CHL...	40039-93-8				
(C16ORC18-N-ALKYL)(C16ORC18-N-ALKYL)AMMONIUM 2-((C16ORC18-N-ALKYL)(C16ORC18-N-ALKYL)CARBAMOYL)BENZENESULFONATE	40039-93-8				
BENZENE, ETHENYL-, TRIBROMO DERIV., HOMOPOLYMER	57137-10-7				
POLY(TRIBROMOSTYRENE)	57137-10-7				
TRIBROMINATED POLYSTYRENE	57137-10-7				
BROMOETHYLENE	593-60-2				
MONOBROMOETHYLENE	593-60-2				
ISO 1043-4	79-94-7				
TBBA	79-94-7				



Materials Disclosure Specification
12G02897W18 Revision M
Reference List of Substances

SUBSTANCE	CAS #	SUBSTANCE CATEGORY	INDUSTRY USES	MOTOROLA DESIGNATION	REPORTING THRESHOLD (ppm at a homogenous level unless otherwise indicated)
2,2',6,6'-TETRABROMO-4,4'-ISOPROPYLIDENEDIPHENOL	79-94-7				
TETRABROMOBISPHENOL A	79-94-7				
1,1'-(ETHANE-1,2-DIYL)BIS[PENTABROMOBENZENE]	84852-53-9				
DECABROMODIPHENYLETHANE	84852-53-9				
2,4,6-TRIBROMOPHENOL	118-79-6				
PHENOL, 2,4,6-TRIBROMO-TRIBROMOPHENOL	118-79-6				
PHOSPHORIC ACID, MIXED 3-BROMO-2,2-DIMETHYLPROPYL AND 2-BROMOETHYL AND 2-CHLOROETHYL ESTERS	125997-20-8				
BROMINATED EPOXY RESIN END-CAPPED WITH TRIBROMOPHENOL	135229-48-0				
PRATHERM EC 20 (9CI)	135229-48-0				
A TETRABROMOBISPHENOL A-EPICHLOROHYDRIN RESIN BIS(2,4,6-TRIBROMOPHENYL) ETHER (DAINIPPON INK	139638-58-7				
PRATHERM EC 14 (9CI)	139638-58-7				
BENZENE, ETHENYL-, AR-BROMO DERIVS, POLYMERS WITH PROPENE, GRAFT	171091-06-8				
1-PROPANOL, 3-BROMO-2,2-BIS(BROMOMETHYL)-, PHOSPHATE (3:1)	19186-97-1				
TRIS(TRIBROMONEOPENTYL) PHOSPHATE	19186-97-1				
1,1'-ISOPROPYLIDENE BIS(4-(ALLYLOXY)-3,5-DIBROMOBENZENE)	25327-89-3				
BENZENE, 1,1'-(1-METHYLETHYLIDENE) BIS(3,5-DIBROMO-4-(2-PROPENYLOXY)-	25327-89-3				
PROPANE, 2,2-BIS(4-(ALLYLOXY)-3,5-DIBROMOPHENYL)-	25327-89-3				
TETRABROMOBISPHENOL A BIS(ALLYL ETHER)	25327-89-3				



Materials Disclosure Specification
12G02897W18 Revision M
Reference List of Substances

SUBSTANCE	CAS #	SUBSTANCE CATEGORY	INDUSTRY USES	MOTOROLA DESIGNATION	REPORTING THRESHOLD (ppm at a homogenous level unless otherwise indicated)
1,2-BENZENEDICARBOXYLIC ACID, 3,4,5,6-TETRABROMO-, DISODIUM SALT	25357-79-3				
DISODIUM TETRABROMOPHTHALATE	25357-79-3				
PHTHALIC ACID, TETRABROMO-, DISODIUM SALT	25357-79-3				
TETRABROMOPHTHALIC ACID, SODIUM SALT	25357-79-3				
(ALLYLOXY)TRIBROMOBENZENE	26762-91-4				
4,4'-(1-METHYLETHYLIDENE)BISPHENOL, TETRABROMO DERIV, POLYMER WITH CARBONIC DICHLORIDE	28906-13-0				
CARBONIC DICHLORIDE, POLYMER WITH 4,4'-(1-METHYLETHYLIDENE)BIS(2,6-DIBROMOPHENOL)	28906-13-0				
TETRABROMOBISPHENOL A, PHOSGENE, POLYMER	28906-13-0				
TETRABROMOCYCLOOCTANE	31454-48-5				
DIBROMOSTYRENE	31780-26-4				
1,2,5,6,9,10-HEXABROMOCYCLODODECANE	3194-55-6				
CYCLODODECANE, 1,2,5,6,9,10-HEXABROMO-	3194-55-6				
HEXABROMOCYCLODODECANE	3194-55-6				
2,3-DIBROMO-2-BUTENE-1,4-DIOL	3234-02-4				
2,3-DIBROMOBUTENE-1,4-DIOL	3234-02-4				
2-BUTENE-1,4-DIOL, 2,3-DIBROMO-	3234-02-4				
DIBROMOBUTENEDIOL	3234-02-4				
2,4,6-TRIBROMOPHENYLALLYL ETHER	3278-89-5				
2-(ALLYLOXY)-1,3,5-TRIBROMOBENZENE	3278-89-5				
ALLYL 2,4,6-TRIBROMOPHENYL ETHER	3278-89-5				
BENZENE, 1,3,5-TRIBROMO-2-(2-PROPENYLOXY)-	3278-89-5				
1,3-PROPANEDIOL, 2,2-BIS(BROMOMETHYL)-	3296-90-0				
2,2-BIS(BROMOMETHYL)PROPANE-1,3-DIOL	3296-90-0				



Materials Disclosure Specification
12G02897W18 Revision M
Reference List of Substances

SUBSTANCE	CAS #	SUBSTANCE CATEGORY	INDUSTRY USES	MOTOROLA DESIGNATION	REPORTING THRESHOLD (ppm at a homogenous level unless otherwise indicated)
PENTAERYTHRITOL DIBROMIDE	3296-90-0				
PENTAERYTHRITOL DIBROMOHYDRIN	3296-90-0				
-(1,2-DIBROMOETHYL)-1,2-DIBROMOCYCLOHEXANE	3322-93-8				
1,2-DIBROMO-4-(1,2-DIBROMOETHYL)CYCLOHEXANE	3322-93-8				
CYCLOHEXANE, 1,2-DIBROMO-4-(1,2-DIBROMOETHYL)-	3322-93-8				
VINYLCYCLOHEXENE TETRABROMIDE	3322-93-8				
1-PROPANOL, 2,2-DIMETHYL-, TRIBROMO DERIV.	36483-57-5				
2,2-DIMETHYL-1-PROPANOL TRIBROMO DERIV.	36483-57-5				
2,2-DIMETHYLPROPAN-1-OL, TRIBROMO DERIVATIVE	36483-57-5				
TRIBROMONEOPENTYL ALCOHOL	36483-57-5				
4,4'-(ISOPROPYLIDENE)BIS(2,6-DIBROMOANISOLE)	37853-61-5				
4,4'-ISOPROPYLIDENE BIS(2,6-DIBROMOMETHOXYBENZENE)	37853-61-5				
BENZENE, 1,1'-(1-METHYLETHYLIDENE)BIS(3,5-DIBROMO-4-METHOXY-	37853-61-5				
TETRABROMOBISPHENOL B	37853-61-5				
2,3,4,5,6,.ALPHA.-HEXABROMOTOLUENE	38521-51-6				
2,3,4,5,6,ALPHA-HEXABROMOTOLUENE	38521-51-6				
4,4'-SULFONYLBIS(2,6-DIBROMOPHENOL)	39635-79-5				
4,4'-SULPHONYLBIS(2,6-DIBROMOPHENOL)	39635-79-5				
4,4'-SULPHONYLBIS[2,6-DIBROMOPHENOL]	39635-79-5				
PHENOL, 4,4'-SULFONYLBIS(2,6-DIBROMO-	39635-79-5				
2,2-BIS(3,5-DIBROMO-4-(2-HYDROXYETHOXY)PHENYL)PROPANE	4162-45-2				
4,4'-ISOPROPYLIDENE BIS(2-(2,6-DIBROMOPHENOXY)ETHANOL)	4162-45-2				



Materials Disclosure Specification
12G02897W18 Revision M
Reference List of Substances

SUBSTANCE	CAS #	SUBSTANCE CATEGORY	INDUSTRY USES	MOTOROLA DESIGNATION	REPORTING THRESHOLD (ppm at a homogenous level unless otherwise indicated)
ETHANOL, 2,2'-((1-METHYLETHYLIDENE)BIS((2,6-DIBROMO-4,1-PHENYLENE)OXY))BIS-	4162-45-2				
TETRABROMOBISPHENOL A BIS(ETHOXYLATE)	4162-45-2				
BENZENE, 1,1'-SULFONYLBIS(3,5-DIBROMO-4-(2,3-DIBROMOPROPOXY)-	42757-55-1				
BIS(3,5-DIBROMO-4-(2,3-DIBROMOPROPOXY)PHENYL) SULPHONE	42757-55-1				
BIS[3,5-DIBROMO-4-(2,3-DIBROMOPROPOXY)PHENYL] SULPHONE	42757-55-1				
PHENOL, DIBROMO-, PHOSPHATE (3:1)	49690-63-3				
TRIS(DIBROMOPHENYL) PHOSPHATE	49690-63-3				
1,3,5-TRIAZINE-2,4,6(1H,3H,5H)-TRIONE, 1,3,5-TRIS(2,3-DIBROMOPROPYL)-	52434-90-9				
1,3,5-TRIS(2,3-DIBROMOPROPYL)-1,3,5-TRIAZINE-2,4,6(1H,3H,5H)-TRIONE	52434-90-9				
4,7-METHANO-1H-ISOINDOLE-1,3(2H)-DIONE, 2,2'-(1,2-ETHANEDIYL)BIS(5,6-DIBROMOHEXAHYDRO-	52907-07-0				
ETHYLENEBIS(5,6-DIBROMONORBORNANE-2,3-DICARBOXIMIDE)	52907-07-0				
N,N'-(ETHYLENE)BIS(4,5-DIBROMOHEXAHYDRO-3,6-METHANOPHTHALIMIDE)	52907-07-0				
SAYTEX BN 451	52907-07-0				
1,2-BENZENEDICARBOXYLIC ACID, 3,4,5,6-TETRABROMO-, DIMETHYL ESTER (9CI)	55481-60-2				
(PENTABROMOPHENYL)METHYL ACRYLATE	59447-55-1				
2-PROPENOIC ACID, (PENTABROMOPHENYL)METHYL ESTER, HOMOPOLYMER	59447-57-3				
1H-PYRROLE-2,5-DIONE, 1-(2,4,6-TRIBROMOPHENYL)-	59789-51-4				



Materials Disclosure Specification
12G02897W18 Revision M
Reference List of Substances

SUBSTANCE	CAS #	SUBSTANCE CATEGORY	INDUSTRY USES	MOTOROLA DESIGNATION	REPORTING THRESHOLD (ppm at a homogenous level unless otherwise indicated)
N-(2,4,6-TRIBROMOPHENYL) MALEINIMIDE	59789-51-4				
2,3,4,5,6-PENTABROMOPHENOL	608-71-9				
PENTABROMOPHENOL	608-71-9				
PHENOL, PENTABROMO-	608-71-9				
BENZENE, TRIBROMOETHENYL-	61368-34-1				
TRIBROMOSTYRENE	61368-34-1				
2,4-DIBROMOPHENOL	615-58-7				
PHENOL, 2,4-DIBROMO-	615-58-7				
1,3-ISOBENZOFURANDIONE, 4,5,6,7-TETRABROMO-	632-79-1				
3,4,5,6-TETRABROMOPHTHALIC ANHYDRIDE	632-79-1				
PHTHALIC ANHYDRIDE, TETRABROMO-	632-79-1				
TETRABROMOPHTHALIC ANHYDRIDE	632-79-1				
1,3-BUTADIENE, HOMOPOLYMER, BROMINATED	68441-46-3				
BROMINATED POLYBUTADIENE	68441-46-3				
POLYBUTADIENE, BROMINATED	68441-46-3				
(C10-C18) LINEAR ALKANE, BROMINATED CHLORINATED	68955-41-9				
ALKANE, C10-18-, BROM- CHLOR-	68955-41-9				
PHENOL, 4,4'-(1-METHYLETHYLIDENE)BIS(2,6-DIBROMO-, POLYMER WITH 2,2'-((1-METHYLETHYLIDENE)BIS((2,6-DIBROMO-4,1-PHENYLENE)OXYMETHYLENE))BIS(OXIRANE)	70682-74-5				
TETRABROMOBISPHENOL A, 2,2-BIS(4-(2,3-EPOXYPROPYLOXY)DIBROMOPHENYL)PROPANE POLYMER	70682-74-5				
1,2-BENZENEDICARBOXYLIC ACID, 3,4,5,6-TETRABROMO-, MIXEDESTERS WITH DIETHYLENE GLYCOL AND PROPYLENE GLYCOL	75790-69-1				



Materials Disclosure Specification
12G02897W18 Revision M
Reference List of Substances

SUBSTANCE	CAS #	SUBSTANCE CATEGORY	INDUSTRY USES	MOTOROLA DESIGNATION	REPORTING THRESHOLD (ppm at a homogenous level unless otherwise indicated)
3,4,5,6-TETRABROMOPHTHALIC ANHYDRIDE, ETHYLENE GLYCOL, PROPYLENE OXIDE REACTION PRODUCTS	75790-69-1				
BROMO-/CHLORO-ALPHA-OLEFIN	82600-56-4				
BROMOKLOR 50 (9CI)	82600-56-4				
2,3,4,5,6-PENTABROMOTOLUENE	87-83-2				
BENZENE, PENTABROMOMETHYL-PENTABROMOTOLUENE	87-83-2				
1-PROPANOL, 2,3-DIBROMO-2,3-DIBROMOPROPAN-1-OL	96-13-9				
BROMINEX 257	96-13-9				
ETHOXYLATED HYDANTOIN GLYCOL DICOCOATE	96-13-9				
1,1'-(ISOPROPYLIDENE)BIS[3,5-DIBROMO-4-(2,3-DIBROMOPROPOXY)BENZENE]	21850-44-2				
BENZENE, 1,1'-(1-METHYLETHYLIDENE)BIS[3,5-DIBROMO-4-(2,3-DIBROMOPROP...]	21850-44-2				
TETRABROMOBISPHENOL A BIS(2,3-DIBROMOPROPYL) ETHER	21850-44-2				
CARBONIC DICHLORIDE, POLYMER WITH 4,4'-(1-METHYLETHYLIDENE)BIS[2,6-DIBROMOPHENOL], 2,4,6-TRIBROMOPHENYL ESTER	71342-77-3				
CARBONIC DICHLORIDE, POLYMER WITH 4,4'-(1-METHYLETHYLIDENE)BIS(2,6-D...	71342-77-3				
CARBONIC DICHLORIDE, POLYMER WITH 4,4'-(1-METHYLETHYLIDENE)BIS(2,6-DIBROMOPHENOL) AND PHENOL	94334-64-2				
POLYMER OF TETRABROMOBISPHENOL A, PHOSGENE, PHENOL	94334-64-2				
TBBA	30496-13-0				
Cadmium and cadmium compounds				Controlled	10
Cadmium Cyanide	542-83-6				



Materials Disclosure Specification
12G02897W18 Revision M
Reference List of Substances

SUBSTANCE	CAS #	SUBSTANCE CATEGORY	INDUSTRY USES	MOTOROLA DESIGNATION	REPORTING THRESHOLD (ppm at a homogenous level unless otherwise indicated)
Cadmium Fluoride	7790-79-6				
Cadmium Iodide	7790-80-9				
Cadmium Oxide	1306-19-0				
Cadmium Sulphide	1306-23-6				
Cadmium	7440-43-9				
Cadmium Chloride	10108-64-2				
Cadmium Selenide	1306-24-7				
Cadmium Sulphate	10124-36-4				
Cadmium Telluride	1306-25-8				
Cadmium Tungstate	7790-85-4				
	and others				
Certain shortchain chlorinated paraffins				Reportable	100
Chlorinated paraffins (C10-13)	85535-84-8				
Chlorofluorocarbons and halons (Class I and				Banned	-
Tetrachloromethane, Carbon tetrachloride	56-23-5				
Trichlorofluoromethane, CFC-11, R-11, Freon 11	75-69-4				
Pentachloromonofluoroethane, CFC-111	354-56-3				
Tetrachlorodifluoroethane, CFC-112	76-12-0				
1,1,1-Trichlorotrifluoroethane, CFC-113	354-58-5				
1,1,2-Trichlorotrifluoroethane, CFC-113	76-13-1				
Dichlorotetrafluoroethane, CFC-114	76-14-2				
Monochloropentafluoroethane, CFC-115	76-15-3				
Dichlorodifluoromethane, CFC-12, R-12, Freon 12	75-71-8				
Chlorotrifluoromethane, CFC-13, R-13	75-72-9				
Heptachlorofluoropropane, CFC-211	422-78-6				
Heptachlorofluoropropane, CFC-211	135401-87-5				
Hexachlorodifluoropropane, CFC-212	3182-26-1				
Pentachlorotrifluoropropane, CFC-213	2354-06-5				
Pentachlorotrifluoropropane, CFC-213	134237-31-3				
Tetrachlorotetrafluoropropane, CFC-214, 1,1,1,3-	29255-31-0				
Tetrachlorotetrafluoropropane					



Materials Disclosure Specification
12G02897W18 Revision M
Reference List of Substances

SUBSTANCE	CAS #	SUBSTANCE CATEGORY	INDUSTRY USES	MOTOROLA DESIGNATION	REPORTING THRESHOLD (ppm at a homogenous level unless otherwise indicated)
Tetrachlorotetrafluoropropane, CFC-214, 1,1,1,3-Tetrachlorotetrafluoropropane	2268-46-4				
Trichloropentafluoropropane, CFC-215	1599-41-3				
1,1,1-Trichloropentafluoropropane, CFC-215	4259-43-2				
1,2,3-Trichloropentafluoropropane, CFC-215	76-17-5				
Dichlorohexafluoropropane, CFC-216	661-97-2				
Chloroheptafluoropropane, CFC-217	422-86-6				
Bromochlorodifluoromethane, Halon 1211	353-59-3				
Bromotrifluoromethane, Halon 1301	75-63-8				
Dibromotetrafluoroethane, Halon 2402	124-73-2				
Bromodifluoroethane and its isomers, HBFC's	1511-62-2				
1,1,2,2-Tetrachloro-1-fluoroethane, HCFC-121	354-14-3				
Tetrachlorofluoroethane, HCFC-121	134237-32-4				
1,1,1,2-Tetrachloro-2-fluoroethane, HCFC-121a	354-11-0				
1,2,2-Trichloro-1,1-difluoroethane, HCFC-122	354-21-2				
Trichlorodifluoroethane, HCFC-122	41834-16-6				
2,2-Dichloro-1,1,1-trifluoroethane, HCFC-123	306-83-2				
Dichlorotrifluoroethane, HCFC-123	34077-87-7				
Dichlorotrifluoroethane, HCFC-123	90454-18-5				
1,2-dichloro-1,1,2-trifluoroethane, HCFC-123a	812-04-4				
Dichloro-1,1,2-trifluoroethane, HCFC-123a	306-83-2				
2-Chloro-1,1,1,2-tetrafluoroethane, HCFC-124	2837-89-0				
Chlorotetrafluoroethane, HCFC-124	63938-10-3				
1-Chloro-1,1,2,2-tetrafluoroethane, HCFC-124a	354-28-6				
Trichlorofluoroethane, HCFC-131	134237-34-6				
Trichlorofluoroethane, HCFC-131	27154-33-2				
1,2,2-Trichloro-1-fluoroethane, HCFC-131	359-28-2				
1,1,1-Trichloro-2-fluoroethane, HCFC-131b	811-95-0				
Dichlorodifluoroethane, HCFC-132	25915-78-0				
1,1-Dichloro-2,2-difluoroethane, HCFC-132	471-43-2				
1,2-dichloro-1,2-difluoroethane, HCFC-132	431-06-1				
1,2-Dichloro-1,1-difluoroethane, HCFC-132b	1649-08-7				
1,1-Dichloro-1,2-difluoroethane, HCFC-132c	1842-05-3				
1-Chloro-1,2,2-trifluoroethane, HCFC-133	1330-45-6				



Materials Disclosure Specification
12G02897W18 Revision M
Reference List of Substances

SUBSTANCE	CAS #	SUBSTANCE CATEGORY	INDUSTRY USES	MOTOROLA DESIGNATION	REPORTING THRESHOLD (ppm at a homogenous level unless otherwise indicated)
2-Chloro-1,1,1-trifluoroethane, HCFC-133a	75-88-7				
Dichlorofluoroethane, HCFC-141	25167-88-8				
1,2-Dichloro-1-fluoroethane, HCFC-141	430-57-9				
1,1-Dichloro-1-fluoroethane, HCFC-141b	1717-00-6				
1-Chloro-1,2-difluoroethane, HCFC-142, HCFC-142a, Chlorodifluoroethane	25497-29-4				
1-Chloro-1,1-difluoroethane, HCFC-142b	75-68-3				
Dichlorofluoromethane, HCFC-21	75-43-4				
Chlorodifluoromethane, HCFC-22	75-45-6				
Hexachlorofluoropropane, HCFC-221	134237-35-7				
Pentachlorodifluoropropane, HCFC-222	134237-36-8				
Tetrachlorotrifluoropropane, HCFC-223	134237-37-9				
Trichlorotetrafluoropropane, HCFC-224	134237-38-0				
Dichloropentafluoropropane, HCFC-225	127564-92-5				
2,2-Dichloro-1,1,1,3,3-pentafluoropropane, HCFC-225aa	128903-21-9				
2,3-Dichloro-1,1,1,2,3-pentafluoropropane, HCFC-225ba	422-48-0				
1,2-Dichloro-1,1,2,3,3-pentafluoropropane, HCFC-225bb	422-44-6				
3,3-Dichloro-1,1,1,2,2-pentafluoropropane, HCFC-225ca	422-56-0				
1,3-Dichloro-1,1,2,2,3-pentafluoropropane, HCFC-225cb	507-55-1				
1,1-Dichloro-1,2,2,3,3-pentafluoropropane, HCFC-225cc	13474-88-9				
1,2-Dichloro-1,1,3,3,3-pentafluoropropane, HCFC-225da	431-86-7				
1,3-Dichloro-1,1,2,3,3-pentafluoropropane, HCFC-225ea	136013-79-1				
1,1-Dichloro-1,2,3,3,3-pentafluoropropane, HCFC-225eb	111512-56-2				
Chlorohexafluoropropane, HCFC-226	134308-72-8				
Pentachlorofluoropropane, HCFC-231	134190-48-0				
Tetrachlorodifluoropropane, HCFC-232	134237-39-1				
Trichlorotrifluoropropane, HCFC-233	134237-40-4				



Materials Disclosure Specification
12G02897W18 Revision M
Reference List of Substances

SUBSTANCE	CAS #	SUBSTANCE CATEGORY	INDUSTRY USES	MOTOROLA DESIGNATION	REPORTING THRESHOLD (ppm at a homogenous level unless otherwise indicated)
1,1,1-Trichloro-3,3,3-trifluoropropane, HCFC-233	7125-83-9				
Dichlorotetrafluoropropane, HCFC-234	127564-83-4				
Chloropentafluoropropane, HCFC-235	134237-41-5				
1-Chloro-1,1,3,3,3-pentafluoropropane, HCFC-235	460-92-4				
Tetrachlorofluoropropane, HCFC-241	134190-49-1				
Trichlorodifluoropropane, HCFC-242	134237-42-6				
Dichlorotrifluoropropane, HCFC-243	134237-43-7				
3,3-Dichloro-1,1,1-trifluoropropane, HCFC-243	460-69-5				
2,3-Dichloro-1,1,1-trifluoropropane, HCFC-243	338-75-0				
1,1-Dichloro-1,2,2-trifluoropropane, HCFC-243	7125-99-7				
Chlorotetrafluoropropane, HCFC-244	134190-50-4				
1-Chloro-2,2,3,3-tetrafluoropropane, HCFC-244	679-85-6				
Trichlorofluoropropane, HCFC-251	134190-51-5				
1,1,3-Trichloro-1-fluoropropane, HCFC-251	818-99-5				
Dichlorodifluoropropane, HCFC-252	134190-52-6				
Chlorotrifluoropropane, HCFC-253	134237-44-8				
3-Chloro-1,1,1-trifluoropropane, HCFC-253fb	460-35-5				
Dichlorofluoropropane, HCFC-261	134237-45-9				
1,1-Dichloro-1-fluoropropane, HCFC-261	7799-56-6				
Chlorodifluoropropane, HCFC-262	134190-53-7				
2-Chloro-1,3-difluoropropane, HCFC-262	102738-79-4				
2-Chloro-2-fluoropropane, HCFC-271	420-44-0				
Chlorofluoropropane, HCFC-271	134190-54-8				
Chlorofluoromethane, HCFC-31	593-70-4				
Bromomethane, Methyl bromide	74-83-9				
1,1,1-Trichloroethane, Methyl chloroform, TCA	71-55-6				
1,1-Dichloroethylene, Vinylidene Chloride	75-35-4				
1,1,2-Trichloroethane,	79-00-5				
Dichloromethane,	75-09-2				
Chromium (VI) compounds				Controlled	100 / 1
Chromium Trioxide (chromic/dichromic acid)	1333-82-0				
Lead Chromate (VI)	7758-97-6				



Materials Disclosure Specification
12G02897W18 Revision M
Reference List of Substances

SUBSTANCE	CAS #	SUBSTANCE CATEGORY	INDUSTRY USES	MOTOROLA DESIGNATION	REPORTING THRESHOLD (ppm at a homogenous level unless otherwise indicated)
Lead Chromate (VI) Oxide	18454-12-1				
Potassium Dichromate (VI)	7778-50-9				
Sodium Chromate (VI)	7775-11-3				
Sodium Dichromate (VI)	10588-01-9				
	and others				
Ethylene Glycol Monoethyl Ether and its				Controlled	1
Ethylene glycol monoethyl ether	110-80-5				
Ethylene glycol monoethyl ether acetate	111-15-9				
Ethylene Glycol Monomethyl Ether and its				Controlled	1
Ethylene glycol monomethyl ether	109-86-4				
Ethylene glycol monomethyl ether acetate	110-49-6				
Diethylene glycol dimethyl ether	111-96-6				
Halogenated aromatic compounds as				Reportable	100
m-Chloroaniline	108-42-9				
o-Chloroaniline	95-51-2				
p-Chloroaniline	106-47-8				
Chlorobenzene	108-90-7				
1-Chloro-2-Nitrobenzene	88-73-3				
3,4-Dichloroaniline	95-76-1				
m-Dichlorobenzene	541-73-1				
o-Dichlorobenzene	95-50-1				
p-Dichlorobenzene	106-46-7				
1,2,3-Trichlorobenzene	87-61-6				
1,2,4-Trichlorobenzene	120-82-1				
1,3,5-Trichlorobenzene	108-70-3				
Halogenated dioxins and furans					
2,3,7,8-Tetra-CDD	1746-01-6				
1,2,3,7,8,9-Hexa-CDD	19408-74-3				
1,2,3,4,7,8-Hexa-CDD	39227-28-6				
1,2,3,7,8-Penta-CDD	40321-76-4				



Materials Disclosure Specification
12G02897W18 Revision M
Reference List of Substances

SUBSTANCE	CAS #	SUBSTANCE CATEGORY	INDUSTRY USES	MOTOROLA DESIGNATION	REPORTING THRESHOLD (ppm at a homogenous level unless otherwise indicated)
2,3,7,8-Tetra-CDF	51207-31-9				
2,3,4,7,8-Penta-CDF	57117-31-4				
1,2,3,6,7,8-Hexa-CDF	57117-44-9				
1,2,3,6,7,8-Hexa-CDD	57653-85-7				
1,2,3,7,8-Penta-CDF	57117-41-6				
1,2,3,4,7,8-Hexa-CDF	70648-26-9				
1,2,3,7,8,9-Hexa-CDF	72918-21-9				
2,3,4,6,7,8-Hexa-CDF	60851-34-5				
1,2,3,4,6,7,8-Hepta-CDD	35822-46-9				
1,2,3,4,6,7,8,9-Octa-CDD	3268-87-9				
1,2,3,4,6,7,8-Hepta-CDF	67562-39-4				
1,2,3,4,7,8,9-Hepta-CDF	55673-89-7				
1,2,3,4,6,7,8,9-Octa-CDF	39001-02-0				
2,3,7,8-Tetra-BDD	50585-81-6				
1,2,3,7,8-Penta-BDD	109333-34-8				
2,3,7,8-Tetra-BDF	67733-57-7				
2,3,4,7,8-Penta-BDF	131166-92-2				
1,2,3,4,7,8-Hexa-BDD	110999-44-5				
1,2,3,7,8,9-Hexa-BDD	110999-46-7				
1,2,3,6,7,8-Hexa-BDD	110999-45-6				
1,2,3,7,8-Penta-BDF	109333-34-8				
Mercury and mercury compounds				Controlled	1
Mercury	7439-97-6				
Mercuric Acetate	1600-27-7				
Mercuric Arsenate	7784-37-4				
Mercuric Benzoate	583-15-3				
Mercuric Bromide	7789-47-1				
Mercuric Chloride	7484-37-4				
Mercuric Chloride, Ammoniated	10124-48-8				
Mercuric Cyanide	592-04-1				
Mercuric Dichromate (VI)	00789-10-8				
Mercuric Fluoride	7783-39-3				
Mercuric Iodate	7783-32-6				
Mercuric Iodide, Red	7774-29-0				
Mercuric Nitrate	10045-94-0				



Materials Disclosure Specification
12G02897W18 Revision M
Reference List of Substances

SUBSTANCE	CAS #	SUBSTANCE CATEGORY	INDUSTRY USES	MOTOROLA DESIGNATION	REPORTING THRESHOLD (ppm at a homogenous level unless otherwise indicated)
Nickel(II)Sulfide	16812-54-7				
	and others				
Organic halogen compounds (except where				Reportable	100
1,1,2,2-Tetrachloroethane	79-34-5				
1,2,1,2-Tetrachloroethane	630-20-6				
Pentachloroethane	76-01-7				
Trichloromethane (Chloroform)	67-66-3				
1,1,2-Trichloroethane	79-00-5				
1,2-Dichloroethylene	75-35-4				
	and others				
Perchlorates				Reportable	100
Lithium perchlorate	7791-03-9				
Magnesium perchlorate	10034-81-8				
Zinc perchlorate	10025-64-6				
	and others				
Perfluoro alkyl sulfonates (PFAS), and				Controlled	100
2-Propenoic acid, 2-[butyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl ester	383-07-3				
2-Propenoic acid, 2-[ethyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl ester	423-82-5				
1-Octanesulfonamide, N,N',N"-[phosphinyldynetris(oxy-2,1-ethanediyl)]tris[N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-	2250-98-8				
2-Propenoic acid, 2-methyl-, 2-[[[(heptadecafluorooctyl)sulfonyl]methylamino]ethyl ester	14650-24-9				

SUBSTANCE	CAS #	SUBSTANCE CATEGORY	INDUSTRY USES	MOTOROLA DESIGNATION	REPORTING THRESHOLD (ppm at a homogenous level unless otherwise indicated)
1-Octanesulfonamide, N,N'-[phosphinicobis(oxy-2,1-ethanediyl)]bis[N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, ammonium salt	30381-98-7				
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, lithium salt	55120-77-9				
Benzoic acid, 2,3,4,5-tetrachloro-6-[[[3-[[[(heptadecafluorooctyl)sulfonyl]oxy]phenyl]amino]carbonyl]-, monopotassium salt	57589-85-2				
1-Octanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-[3-(trimethoxysilyl)propyl]-	61660-12-6				
1-Octanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-[2-(phosphonoxy)ethyl]-, diammonium salt	67969-69-1				
Cyclohexanesulfonic acid, nonafluorobis(trifluoromethyl)-, potassium salt	68156-01-4				
2-Propenoic acid, eicosyl ester, polymer with 2-[[[(heptadecafluorooctyl)sulfonyl]methylamino]ethyl 2-propenoate, hexadecyl 2-propenoate, 2-[methyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(tridecafluorohexyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(undecafluoropentyl)sulfonyl]amino]ethyl 2-propenoate and octadecyl 2-propenoate	68329-56-6				



Materials Disclosure Specification
 12G02897W18 Revision M
 Reference List of Substances

SUBSTANCE	CAS #	SUBSTANCE CATEGORY	INDUSTRY USES	MOTOROLA DESIGNATION	REPORTING THRESHOLD (ppm at a homogenous level unless otherwise indicated)
2-Propenoic acid, 2-methyl-, 2-[ethyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl ester, polymer with 2-[ethyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(tridecafluorohexyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(undecafluoropentyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate and octadecyl 2-methyl-2-propenoate	68555-91-9				
2-Propenoic acid, 2-methyl-, 2-[[[(heptadecafluorooctyl)sulfonyl]methylamino]ethyl ester, polymer with 2-[methyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[methyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[methyl[(tridecafluorohexyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[methyl[(undecafluoropentyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate and octadecyl 2-methyl-2-propenoate	68555-92-0				
Sulfonamides, C4-8-alkane, perfluoro, N-ethyl-N-(hydroxyethyl), reaction products with 1,1'-methylenebis[4-isocyanatobenzene]	68608-14-0				



Materials Disclosure Specification
12G02897W18 Revision M
Reference List of Substances

SUBSTANCE	CAS #	SUBSTANCE CATEGORY	INDUSTRY USES	MOTOROLA DESIGNATION	REPORTING THRESHOLD (ppm at a homogenous level unless otherwise indicated)
2-Propenoic acid, eicosyl ester, polymers with branched octyl acrylate, 2-[[[(heptadecafluorooctyl)sulfonyl]methylamino]ethyl acrylate, 2-[methyl[(nonafluorobutyl)sulfonyl]amino]ethyl acrylate, 2-[methyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl acrylate, 2-[methyl[(tridecafluorohexyl)sulfonyl]amino]ethyl acrylate, 2-[methyl[(undecafluoropentyl)sulfonyl]amino]ethyl acrylate, polyethylene glycol acrylate Me ether and stearyl acrylate	68909-15-9				
2-Propenoic acid, 2-methyl-, octadecyl ester, polymer with 1,1-dichloroethene, 2-[[[(heptadecafluorooctyl)sulfonyl]methylamino]ethyl 2-propenoate, N-(hydroxymethyl)-2-propenamide, 2-[methyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(tridecafluorohexyl)sulfonyl]amino]ethyl 2-propenoate and 2-[methyl[(undecafluoropentyl)sulfonyl]amino]ethyl 2-propenoate	70776-36-2				
1-Propanesulfonic acid, 3-[[3-(dimethylamino)propyl]][(tridecafluorohexyl)sulfonyl]amino]-2-hydroxy-, monosodium salt	73772-32-4				
1-Propanaminium, N-(2-hydroxyethyl)-3-[(2-hydroxy-3-sulfopropyl)][(tridecafluorohexyl)sulfonyl]amino]-N,N-dimethyl-, hydroxide, monosodium salt	81190-38-7				
1-Propanesulfonic acid, 3-[[3-(dimethylamino)propyl]][(heptadecafluorooctyl)sulfonyl]amino]-2-hydroxy-, monosodium salt	94133-90-1				



Materials Disclosure Specification
12G02897W18 Revision M
Reference List of Substances

SUBSTANCE	CAS #	SUBSTANCE CATEGORY	INDUSTRY USES	MOTOROLA DESIGNATION	REPORTING THRESHOLD (ppm at a homogenous level unless otherwise indicated)
1-Heptanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-, lithium salt	117806-54-9				
2-Propenoic acid, 2-methyl-, polymers with Bu methacrylate, lauryl methacrylate and 2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl methacrylate	127133-66-8				
Sulfonamides, C4-8-alkane, perfluoro, N-methyl-N-(oxiranylmethyl)	129813-71-4				
Fatty acids, C18-unsatd., trimers, 2-[[[(heptadecafluorooctyl)sulfonyl]methylamino]ethyl esters	148240-78-2				
Fatty acids, C18-unsatd., trimers, 2-[methyl[(nonafluorobutyl)sulfonyl]amino]ethyl esters	148240-79-3				
Fatty acids, C18-unsatd., trimers, 2-[methyl[(tridecafluorohexyl)sulfonyl]amino]ethyl esters	148240-80-6				
Fatty acids, C18-unsatd., trimers, 2-[methyl[(undecafluoropentyl)sulfonyl]amino]ethyl esters	148240-81-7				
Fatty acids, C18-unsatd., trimers, 2-[methyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl esters	148240-82-8				
Sulfonamides, C4-8-alkane, perfluoro, N-(hydroxyethyl)-N-methyl, reaction products with 1,6-diisocyanatohexane homopolymer and ethylene glycol	148684-79-1				
Sulfonamides, C4-8-alkane, perfluoro, N-ethyl-N-(hydroxyethyl)-, polymers with 1,1'-methylenebis[4-isocyanatobenzene] and polymethylenepolyphenylene isocyanate, 2-ethylhexyl esters, Me Et ketone oxime-blocked	178535-22-3				



Materials Disclosure Specification
12G02897W18 Revision M
Reference List of Substances

SUBSTANCE	CAS #	SUBSTANCE CATEGORY	INDUSTRY USES	MOTOROLA DESIGNATION	REPORTING THRESHOLD (ppm at a homogenous level unless otherwise indicated)
Fatty acids, linseed-oil, dimers, 2-[[[(heptadecafluorooctyl)sulfonyl]methylamino]ethyl esters	P-83-1102				
Propanoic acid, 3-hydroxy-2-(hydroxymethyl)-2-methyl-, polymer with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol and N,N',2-tris(6-isocyanatoethyl)imidodicarbonic diamide, reaction products with N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-hydroxyethyl)-1-octanesulfonamide and N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-N-(2-hydroxyethyl)-1-heptanesulfonamide, compds. with triethylamine	P-84-1163				
Propanoic acid, 3-hydroxy-2-(hydroxymethyl)-2-methyl-, polymer with 1,1'-methylenebis[4-isocyanatobenzene] and 1,2,3-propanetriol, reaction products with N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-hydroxyethyl)-1-octanesulfonamide and N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-N-(2-hydroxyethyl)-1-heptanesulfonamide, compds. with morpholine	P-84-1171				
Sulfonamides, C4-8-alkane, perfluoro, N-(hydroxyethyl)-N-methyl, reaction products with 12-hydroxystearic acid and 2,4-TDI, ammonium salts	P-86-0301				
Sulfonamides, C4-8-alkane, perfluoro, N-ethyl-N-(hydroxyethyl), reaction products with 2-ethyl-1-hexanol and polymethylenepolyphenylene isocyanate	P-89-0799				

SUBSTANCE	CAS #	SUBSTANCE CATEGORY	INDUSTRY USES	MOTOROLA DESIGNATION	REPORTING THRESHOLD (ppm at a homogenous level unless otherwise indicated)
1-Hexadecanaminium, N,N-dimethyl-N-[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]-, bromide, polymers with Bu acrylate, Bu methacrylate and 2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl acrylate	P-94-0545				
2-Propenoic acid, 2-methyl-, 2-methylpropyl ester, polymer with 2,4-diisocyanato-1-methylbenzene, 2-ethyl-2-(hydroxymethyl)-1,3-propanediol and 2-propenoic acid, N-ethyl-N-(hydroxyethyl)perfluoro-C4-8-alkanesulfon amides-blocked	P-94-0927				
Polymethylenepolyphenylene isocyanate and bis(4-NCO-phenyl)methane reaction products with 2-ethyl-1-hexanol, 2-butanone, oxime, N-ethyl-N-(2-hydroxyethyl)-1-C4-C8 perfluoroalkanesulfonamide	P-94-2205				
Siloxanes and Silicones, di-Me, mono[3-[(2-methyl-1-oxo-2-propenyl)oxy]propylgroup]-terminated, polymers with 2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl acrylate and stearyl methacrylate	P-94-2206				
Fatty acids, C18-unsatd., dimers, 2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl esters	P-96-1645				
1-Decanaminium, N-decyl-N,N-dimethyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonic acid (1:1)	P-97-0790				
2-Propenoic acid, butyl ester, polymers with acrylamide, 2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl acrylate and vinylidene chloride	P-98-0251				



Materials Disclosure Specification
12G02897W18 Revision M
Reference List of Substances

SUBSTANCE	CAS #	SUBSTANCE CATEGORY	INDUSTRY USES	MOTOROLA DESIGNATION	REPORTING THRESHOLD (ppm at a homogenous level unless otherwise indicated)
2-Propenoic acid, 2-methyl-, 3-(trimethoxysilyl)propyl ester, polymers with acrylic acid, 2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl acrylate and propylene glycol monoacrylate, hydrolyzed, compds. with 2,2'-(methylimino)bis[ethanol]	P-98-1272				
Hexane, 1,6-diisocyanato-, homopolymer, N-(hydroxyethyl)-N-methyl perfluoro C4-8-alkane sulfonamide- and stearyl alc.-blocked	P-99-0188				
Poly(oxy-1,2-ethanediy), .alpha.-[2-(methylamino)ethyl]-.omega.-[(1,1,3,3-tetramethylbutyl)phenoxy]-, N-[(perfluoro-C4-8-alkyl)sulfonyl] derivs.	P-99-0319				
1-Octanesulfonyl fluoride, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-	307-35-7				
1-Decanesulfonyl fluoride, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heneicosafuoro-	307-51-7				
2-Propenoic acid, 2-methyl-, 2-[ethyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl ester	376-14-7				
1-Hexanesulfonyl fluoride, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-	423-50-7				
1-Octanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-	754-91-6				
1-Propanaminium, 3-[[[(heptadecafluorooctyl)sulfonyl]amino]-N,N,N-trimethyl-, iodide	1652-63-7				
1-Octanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-hydroxyethyl)-	1691-99-2				
1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-	1763-23-1				



Materials Disclosure Specification
12G02897W18 Revision M
Reference List of Substances

SUBSTANCE	CAS #	SUBSTANCE CATEGORY	INDUSTRY USES	MOTOROLA DESIGNATION	REPORTING THRESHOLD (ppm at a homogenous level unless otherwise indicated)
1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, potassium salt	2795-39-3				
Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt	2991-51-7				
1-Octanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-	4151-50-2				
1-Nonanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-nonadecafluoro-, ammonium salt	17202-41-4				
1-Octanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-hydroxyethyl)-N-methyl-	24448-09-7				
2-Propenoic acid, 2-[[[(heptadecafluorooctyl)sulfonyl]methylamino]ethyl ester	25268-77-3				
1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, ammonium salt	29081-56-9				
Poly(oxy-1,2-ethanediyl), .alpha.-[2-[ethyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl].omega.-hydroxy-	29117-08-6				
1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, lithium salt	29457-72-5				
1-Octanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-methyl-	31506-32-8				
1-Propanaminium, 3-[[[(heptadecafluorooctyl)sulfonyl]amino]-N,N,N-trimethyl-, chloride	38006-74-5				

SUBSTANCE	CAS #	SUBSTANCE CATEGORY	INDUSTRY USES	MOTOROLA DESIGNATION	REPORTING THRESHOLD (ppm at a homogenous level unless otherwise indicated)
1-Propanaminium, N-(2-hydroxyethyl)-N,N-dimethyl-3-[(3-sulfopropyl)[(tridecafluorohexyl)sulfonyl]amino]-, inner salt	38850-58-7				
Cyclohexanesulfonic acid, decafluoro(pentafluoroethyl)-, potassium salt	67584-42-3				
1-Decanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heneicosafuoro-, ammonium salt	67906-42-7				
2-Propenoic acid, 2-[butyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl ester, telomer with 2-[butyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, methyloxirane polymer with oxirane di-2-propenoate, methyloxirane polymer with oxirane mono-2-propenoate and 1-octanethiol	68298-62-4				
2-Propenoic acid, polymer with 2-[ethyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate and octadecyl 2-propenoate	68541-80-0				
2-Propenoic acid, butyl ester, polymer with 2-[[[(heptadecafluorooctyl)sulfonyl]methylamino]ethyl 2-propenoate, 2-[methyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(tridecafluorohexyl)sulfonyl]amino]ethyl 2-propenoate and 2-[methyl[(undecafluoropentyl)sulfonyl]amino]ethyl 2-propenoate	68555-90-8				



Materials Disclosure Specification
 12G02897W18 Revision M
 Reference List of Substances

SUBSTANCE	CAS #	SUBSTANCE CATEGORY	INDUSTRY USES	MOTOROLA DESIGNATION	REPORTING THRESHOLD (ppm at a homogenous level unless otherwise indicated)
2-Propenoic acid, 2-[[[(heptadecafluorooctyl)sulfonyl]methylamino]ethyl ester, telomer with 2-[methyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, .alpha.-(2-methyl-1-oxo-2-propenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl), .alpha.(2-methyl-1-oxo-2-propenyl)-.omega.-[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl), 2-[methyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(tridecafluorohexyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(undecafluoropentyl)sulfonyl]amino]ethyl 2-propenoate and 1-octanethiol	68586-14-1				
1-Octanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-hydroxyethyl)-, reaction products with N-ethyl-1,1,2,2,3,3,4,4,4-nonafluoro-N-(2-hydroxyethyl)-1-butanefulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-N-(2-hydroxyethyl)-1-heptanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-1-hexanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,5-undecafluoro-N-(2-hydroxyethyl)-1-pentanesulfonamide, polymethylenepolyphenylene isocyanate and stearyl alc.	68649-26-3				



Materials Disclosure Specification
12G02897W18 Revision M
Reference List of Substances

SUBSTANCE	CAS #	SUBSTANCE CATEGORY	INDUSTRY USES	MOTOROLA DESIGNATION	REPORTING THRESHOLD (ppm at a homogenous level unless otherwise indicated)
2-Propenoic acid, 2-[[[(heptadecafluorooctyl)sulfonyl]methylamino]ethyl ester, polymer with 2-[methyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(tridecafluorohexyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(undecafluoropentyl)sulfonyl]amino]ethyl 2-propenoate and .alpha.-(1-oxo-2-propenyl)-.omega.-methoxypoly(oxy-1,2-ethanediyl)	68867-60-7				
2-Propenoic acid, 2-methyl-, 2-[ethyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl ester, telomer with 2-[ethyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(tridecafluorohexyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(undecafluoropentyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 1-octanethiol and .alpha.-(1-oxo-2-propenyl)-.omega.-methoxypoly(oxy-1,2-ethanediyl)	68867-62-9				
Chromium, diaquatetrachloro[.mu.-[N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]glycinato-.kappa.O:.kappa.O]]-.mu.-hydroxybis(2-methylpropanol)di-	68891-96-3				
Poly(oxy-1,2-ethanediyl), .alpha.-[2-[ethyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl]-.omega.-methoxy-	68958-61-2				



Materials Disclosure Specification
12G02897W18 Revision M
Reference List of Substances

SUBSTANCE	CAS #	SUBSTANCE CATEGORY	INDUSTRY USES	MOTOROLA DESIGNATION	REPORTING THRESHOLD (ppm at a homogenous level unless otherwise indicated)
1-Octanesulfonic acid, 1,1,2,2,3,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, compd. with 2,2'-iminobis[ethanol] (1:1)	70225-14-8				
2-Propenoic acid, 2-methyl-, methyl ester, polymer with ethenylbenzene, 2-[[[(heptadecafluorooctyl)sulfonyl]methylamino]ethyl 2-propenoate, 2-[methyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(tridecafluorohexyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(undecafluoropentyl)sulfonyl]amino]ethyl 2-propenoate and 2-propenoic acid	71487-20-2				
1-Octanesulfonamide, 1,1,2,2,3,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-hydroxyethyl)-N-methyl-, polymer with(chloromethyl)oxirane, 1,1,2,2,3,3,4,4,4-nonafluoro-N-(2-hydroxyethyl)-N-methyl-1-butanefulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-N-(2-hydroxyethyl)-N-methyl-1-heptanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-N-methyl-1-hexanesulfonamide and 1,1,2,2,3,3,4,4,5,5,5-undecafluoro-N-(2-hydroxyethyl)-N-methyl-1-pentanesulfonamide, hexanedioate (ester)	91081-99-1				

SUBSTANCE	CAS #	SUBSTANCE CATEGORY	INDUSTRY USES	MOTOROLA DESIGNATION	REPORTING THRESHOLD (ppm at a homogenous level unless otherwise indicated)
Sulfonamides, C7-8-alkane, perfluoro, N-methyl-N-[2-[(1-oxo-2-propenyl)oxy]ethyl], polymers with 2-ethoxyethyl acrylate, glycidyl methacrylate and N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]ethanaminiumchloride	98999-57-6				
1-Octanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-methyl-, reaction products with benzene-chlorine-sulfur chloride (S ₂ Cl ₂) reaction products chlorides	182700-90-9				
2-Propenoic acid, 2-methyl-, butyl ester, polymer with 2-methyl-, 2-[ethyl [(heptadecafluorooctyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(tridecafluorohexyl)sulfonyl]amino]ethyl 2-methyl-2-propenoate, and 2-propenoic acid	L-92-0151				
Sulfonamides, C4-8-alkane, perfluoro, N-[3-(dimethylamino)propyl], reaction products with acrylic acid	P-80-0183				
2-Propenoic acid, 2-methyl-, dodecyl ester, polymers with 2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl acrylate and vinylidene chloride	P-86-0958				
Sulfonamides, C4-8-alkane, perfluoro, N-methyl-N-[(3-octadecyl-2-oxo-5-oxazolidinyl)methyl]	P-90-0111				
Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, polymer with 1,6-diisocyanatohexane, N-(2-hydroxyethyl)-N-methyl perfluoro C4-8-alkane sulfonamide-blocked	P-91-1419				



Materials Disclosure Specification
12G02897W18 Revision M
Reference List of Substances

SUBSTANCE	CAS #	SUBSTANCE CATEGORY	INDUSTRY USES	MOTOROLA DESIGNATION	REPORTING THRESHOLD (ppm at a homogenous level unless otherwise indicated)
2-Propenoic acid, 2-methyl-, dodecyl ester, polymers with N-(hydroxymethyl)-2-propenamides, 2-[methyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl methacrylate, stearyl methacrylate and vinylidene chloride	P-93-1444				
Sulfonamides, C4-8-alkane, perfluoro, N,N'-[1,6-hexanediylbis[[2-oxo-3,5-oxazolidinediyl)methylene]]bis[N-methyl-	P-95-0120				
Sulfonic acids, C6-8-alkane, perfluoro, compds. with polyethylene-polypropylene glycol bis(2-aminopropyl) ether	P-96-1262				
2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, telomers with 2-[ethyl[(perfluoro-C4-8-alkyl)sulfonyl]amino]ethyl methacrylate and 1-octanethiol, N-oxides	P-96-1424				
Sulfonamides, C4-8-alkane, perfluoro, N-[3-(dimethyloxidoamino)propyl], potassium salts	P-96-1433				
Perfluorooctanoic acid	335-67-1				
Perfluorocarbons				Reportable	100
C2F6	76-14-4				
C3F8	76-19-7				
C4F8	382-21-8				
CF4	75-73-0				
CHF3	75-46-7				
NF3	7783-54-2				
	and others				
Phthalates				Controlled	100
Butylbenzyl phthalate (BBP)	85-68-7				
Dibutyl phthalate (DBP)	84-74-2				
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7				
Diethyl phthalate	84-66-2				
Dimethyl phthalate (DMP)	131-11-3				



Materials Disclosure Specification
12G02897W18 Revision M
Reference List of Substances

SUBSTANCE	CAS #	SUBSTANCE CATEGORY	INDUSTRY USES	MOTOROLA DESIGNATION	REPORTING THRESHOLD (ppm at a homogenous level unless otherwise indicated)
Di-n-octyl phthalate (DOP)	117-84-0				
di-"isononyl" phthalate (DINP)	71549-78-5				
di "isodecyl" phthalate (DIDP)	68515-49-1				
	26761-40-0				
di-n-octyl phthalate (DNOP)	117-84-0				
Polybrominated biphenyls (PBBs)				Controlled	100
2-Bromobiphenyl	2052-07-5				
3-Bromobiphenyl	2113-57-7				
4-Bromobiphenyl	92-66-0				
p,p'-Dibromobiphenyl	92-86-4				
Tribromobiphenyl	59080-34-1				
tetrabromobiphenyl	40088-45-7				
2,2',4,4',5,5'-Hexabromobiphenyl	59080-40-9				
Hexabromo-1,1'-biphenyl	36355-01-8				
Decabromobiphenyl	13654-09-6				
Polybrominated biphenyl mixture (Firemaster FF-1)	67774-32-7				
Polybrominated biphenyls	59536-65-1				
	and others				
Polybrominated diphenyl ethers (PBDEs)				Controlled	100
4-Bromodiphenyl ether	101-55-3				
Dibromodiphenyl ether	2050-47-7				
2,3',4'-Tribromodiphenyl ether	49690-94-0				
Tetrabromodiphenyl ether	40088-47-9				
Hexabromodiphenyl ether	36483-60-0				
Heptabromodiphenyl ether	68928-80-3				
Octabromodiphenyl ether	32536-52-0				
Octabromodiphenyl ether	32534-81-9				
Octabromodiphenyl ether	61288-13-9				
Nonabromodiphenyl ether	63936-56-1				
Decabromodiphenyl ether	1163-19-5				
	and others				



Materials Disclosure Specification
12G02897W18 Revision M
Reference List of Substances

SUBSTANCE	CAS #	SUBSTANCE CATEGORY	INDUSTRY USES	MOTOROLA DESIGNATION	REPORTING THRESHOLD (ppm at a homogenous level unless otherwise indicated)
Tributyl Tin (TBT) and Triphenyl Tin (TPT)				Reportable	100
Triphenyltin N,N-dimethyldithiocarbamate	1803-12-9				
Triphenyl tin fluoride	379-52-2				
Fentin acetate	900-95-8				
Triphenyltin Chloride	639-58-7				
Fentin hydroxide	76-87-9				
Triphenyltin fattyacid((9-11)salt)	18380-71-7 18380-72-8 47672-31-1 94850-90-5				
Triphenyltin chloroacetate	7094-94-2				
Tributyltinmethacrylate	2155-70-6				
Bis (tributyltin) fumarate	6454-35-9				
Tributyltinfluoride	1983-10-4				
Bis(tributyltin)2,3-dibromosuccinate	31732-71-5				
(acetyloxy)tributylstannane	56-36-0				
Tributyltinlaurate	3090-36-6				
Bis(tributyltin)phthalate	4782-29-0				
Copolymer of alkyl (c=8) acrylate,methyl methacrylate and tributyltin methacrylate	67772-01-4				
Tributyltin sulfamate	6517-25-5				
Bis(tributyltin)maleate	14275-57-1				
Tributyltinchloride	1461-22-9, 7432-38-3				
Tributyltin cyclopentane carbonate mixture	5409-17-2				
Tributyltin-1, 2,3,4,4a, 4b, 5,6,10,10a-decahydro-7-isoplopyl-1, 4a-dimethyl-1-phenanthrencarboxylatemix	26239-64-5				
	and others				
Tributyl Tin Oxide (TBTO)				Reportable	100
Bis(tri-n-butyltin) oxide	56-35-9				