

# Material Data Declaration Sheet - v003

Schema Database Version: IEC 62474 X6.01

Substance Database Version: IEC 62474 D19.00



## Supplier Information

<b>Company Name *</b>	Intel Corporation
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<b>Unique ID Authority</b>	Dun and Bradstreet
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## Product(s)

Product Family Name:

Requester Item Number	Item Number *	Description	Effective Date *	Mass *	UoM*	Comment
	BDNVVN30003	BDNVVN30003	2020-03-29	450.00	g	

## Product Part(s)

ID*	Description	Effective Date*	Units*	% of Product Mass	Comment
FET-N-CHANNEL-TRAN	FET-N-CHANNEL-TRAN	2020-03-29	4	0.40	
IC	IC	2020-03-29	2	0.082	
Resistor	Resistor	2020-03-29	558	3.38	
Other Items 1	Other Items	2020-03-29	1	96.14	

## Declaration

LHPWB	This product is Low Halogen (PCB): Applies Br/Cl in the PCB Laminate. The PCB / Substrate meet IEC 61249-2-21 requirements. The replacement of halogenated flame retardants may not be better for the environment	False
PVC	This product does not contain PVC	True
SVHC	Product Contains REACH SVHC above .1% of article	False
RoHS.Exempt	Product meets EU RoHS Directive 2 2011/65/EU Requirements (Directive 2011/65/EU) and its amendments (e.g. 2015/863/EU) by application of the selected exemptions	True

## Exemptions

EL2011/534/EU	Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead)	7(a)
EL2011/534/EU	Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound	7(c)-I
EL2011/534/EU	Lead in PZT based dielectric ceramic materials for capacitors being part of integrated circuits or discrete semiconductors	7(c)-IV

## Signature

Intel Product  
Ecology

C=US, E=productecology@intel.com, OU="", O=Intel Corporation, CN=Intel Product Ecology

Part ID	Description	# of Units	Part Mass %
FET-N-CHANNEL-TRAN	FET-N-CHANNEL-TRAN	4	0.40

## RoHS

Homogenous Material Name	Material Class ID	HM Mass %	Substance Group	Reportable Application	Reporting Threshold	Above Threshold? (T/F)	Substance Mass % of HM	Exemption	Comments
			Benzyl butyl phthalate (BBP)	All	0.1 mass% in homogenous	false			
			Bis (2-ethylhexyl)phthalate	All	0.1 mass% in homogenous	false			
			Cadmium/Cadmium compounds	All, except batteries	0.01 mass% of total Cd in homogenous	false			
			Chromium (VI) Compounds	All	0.1 mass% of total Cr+6 in homogenous	false			
			Dibutyl phthalate (DBP)	All	0.1 mass% in homogenous	false			
			Diisobutyl phthalate	All	0.1 mass% in homogenous	false			
solder		1.089	Lead/Lead Compounds	All, except for: 1. batteries, 2. surface	0.1 mass% of total Pb in homogenous	true	95.511		
			Mercury/Mercury Compounds	All, except batteries	Intentionally Added or 0.1 mass% of total	false			
			Polybrominated biphenyls (PBB)	All	0.1 mass% in homogenous	false			
			Polybrominated diphenyl ethers (PBDE)	All	0.1 mass% in homogenous	false			

## Low Halogen

Homogenous Material Name	Material Class ID	HM Mass %	Substance Group	Reportable Application	Reporting Threshold	Above Threshold? (T/F)	Substance Mass % of HM	Comments
			Brominated flame retardants (other than	Printed wiring board laminate	0.09 mass% total bromine content in	false		
			Chlorinated Flame Retardants (CFR)	Printed Wiring Board (PWB) Laminates	0.09 mass% total chlorine content in	false		
	M-012		PVC			false		

## Other Declarable Substances

Substance Group	Substance	CAS #	Reportable Application	Reporting Threshold	Above Threshold? (T/F)	Substance Mass (% of Article)	Comments
1,6,7,8,9,14,15,16,17,17, 18,18-Dodecachloropent			All	0.1 mass% of article	false	0.00	
4-Nonylphenol, branched and linear,			All	0.1 mass% of article	false	0.00	
Alkanes, C10-13, chloro (Short Chain Chlorinated			All	Intentionally added or 0.1 mass% of article	false	0.00	
Aluminosilicate Refractory Ceramic			All	0.1 mass% of article	false	0.00	

Asbestos			All	Intentionally added	false	0.00
Cadmium/Cadmium compounds			Batteries	0.001% by weight of battery	false	0.00
Dibutyltin (DBT) compounds			All	0.1 mass% of tin in the part	false	0.00
Diocetyl tin (DOT) compounds			(a) textile and leather articles intended to	0.1 mass% of tin in the part	false	0.00
Disodium tetraborate, anhydrous			All	0.1 mass% of article	false	0.00
Fluorinated Greenhouse Gases (PFC, SF6, HFC)			All	Intentionally Added	false	0.00
Hexabromocyclododecane (HBCDD)			All	Intentionally added or 0.01 mass% of article	false	0.00
Hexahydromethylphthalic anhydride			All	0.1 mass% of article	false	0.00
Lead/Lead Compounds			Consumer products designed or intended	0.01 mass%	false	0.00
Lead/Lead Compounds			Batteries	0.004 mass% of battery	false	0.00
Mercury/Mercury Compounds			Batteries	Intentionally added or 0.0001 mass% of battery	false	0.00
Nickel/Nickel Compounds			All, where prolonged skin contact is expected	Intentionally Added	false	0.00
Nonadecafluorodecanoic acid (PFDA) and its			All	0.1 mass% of article	false	0.00
Ozone Depleting Substances (CFC, Halon,			All	Intentionally Added	false	0.00
Perchlorates			All	6 x 10 <sup>-7</sup> mass% of battery or product part	false	0.00
Perfluorobutane sulfonic acid (PFBS) and its salts			All	0.1 mass% of article	false	0.00
Perfluorohexane-1-sulphonic acid and its salts			All	0.1 mass% of article	false	0.00
Perfluorononan-1-oic acid and its sodium and			All	0.1 mass% of article	false	0.00
Perfluorooctanoic acid and its salts			All	0.000025 mass% of PFOA including its salts in	false	0.00
PFOA-related substances			All	0.0001 mass% of one or a combination of	false	0.00
Polychlorinated Biphenyls (PCBs) and			All	Intentionally added	false	0.00
Polychlorinated naphthalenes			All	Intentionally added	false	0.00
Radioactive substances			All	Intentionally added	false	0.00
Tris(4-nonylphenyl, branched and linear)			All	0.1 mass% of article	false	0.00
Tri-substituted organostannic			All	Intentionally added or 0.1 mass% of tin in the	false	0.00
Zirconia Aluminosilicate Refractory Ceramic			All	0.1 mass% of article	false	0.00
	[Phthalato(2-)]dioxotrilead	69011-06-9	All	0.1 mass% of article	false	0.00
	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters	68515-51-5; 68648-93-1	All	0.1 mass% of article	false	0.00
	1,2-Benzenedicarboxylic acid, di-C6-8-branched	71888-89-6	All	0.1 mass% of article	false	0.00

1,2-Benzenedicarboxylic acid, di-C7-11-branched	68515-42-4	All	0.1 mass% of article	false	0.00
1,2-Benzenedicarboxylic acid, dihexyl ester,	68515-50-4	All	0.1 mass% of article	false	0.00
1,2-Benzenedicarboxylic acid, dipentyl ester,	84777-06-0	All	0.1 mass% of article	false	0.00
1,2-bis(2-methoxyethoxy)ethane (TEGDME)	112-49-2	All	0.1 mass% of article	false	0.00
1,2-diethoxyethane	629-14-1	All	0.1 mass% of article	false	0.00
1,2-dimethoxyethane; ethylene glycol dimethyl	110-71-4	All	0.1 mass% of article	false	0.00
1,3-propanesultone	1120-71-4	All	0.1 mass% of article	false	0.00
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)	36437-37-3	All	0.1 mass% of article	false	0.00
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol	25973-55-1	All	0.1 mass% of article	false	0.00
2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	All	0.1 mass% of article	false	0.00
2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)pheno	3864-99-1	All	0.1 mass% of article	false	0.00
2-benzotriazol-2-yl-4,6-ditert-butylphenol (UV-320)	3846-71-7	All	Intentionally added or 0.1 mass% of article	false	0.00
2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo	15571-58-1	All	0.1 mass% of article	false	0.00
4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	All	0.1 mass% of article	false	0.00
4,4'-isopropylidenediphenol	80-05-7	All	Intentionally added or 0.1 mass% of article	false	0.00
4-aminoazobenzene	60-09-3	All	0.1 mass% of article	false	0.00
Ammonium pentadecafluorooctanoat	3825-26-1	All	0.1 mass% of article	false	0.00
Benz[a]anthracene	56-55-3	All	0.1 mass% of article	false	0.00
Benzo[a]anthracene (BaA)	56-55-3	Rubber or plastic parts that come into direct,	0.0001 mass% of the plastic or rubber part	false	0.00
Benzo[a]anthracene (BaA)	56-55-3	Rubber or plastic parts of toys and childcare	0.00005 mass% of the plastic or rubber part	false	0.00
Benzo[a]pyrene (BaP)	50-32-8	Rubber or plastic parts that come into direct,	0.0001 mass% of the plastic or rubber part	false	0.00
Benzo[a]pyrene (BaP)	50-32-8	Rubber or plastic parts of toys and childcare	0.00005 mass% of the plastic or rubber part	false	0.00
Benzo[b]fluoranthene (BbFA)	205-99-2	Rubber or plastic parts that come into direct,	0.0001 mass% of the plastic or rubber part	false	0.00
Benzo[b]fluoranthene (BbFA)	205-99-2	Rubber or plastic parts of toys and childcare	0.00005 mass% of the plastic or rubber part	false	0.00
Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	All	0.1 mass% of article	false	0.00
Benzo[e]pyrene (BeP)	192-97-2	Rubber or plastic parts that come into direct,	0.0001 mass% of the plastic or rubber part	false	0.00
Benzo[e]pyrene (BeP)	192-97-2	Rubber or plastic parts of toys and childcare	0.00005 mass% of the plastic or rubber part	false	0.00
Benzo[ghi]perylene	191-24-2	All	0.1 mass% of article	false	0.00
Benzo[j]fluoranthene (BjFA)	205-82-3	Rubber or plastic parts that come into direct,	0.0001 mass% of the plastic or rubber part	false	0.00

Benzo[j]fluoranthene (BjFA)	205-82-3	Rubber or plastic parts of toys and childcare	0.00005 mass% of the plastic or rubber part	false	0.00
Benzo[k]fluoranthene	207-08-9	All	0.1 mass% of article	false	0.00
Benzo[k]fluoranthene (BkFA)	207-08-9	Rubber or plastic parts that come into direct,	0.0001 mass% of the plastic or rubber part	false	0.00
Benzo[k]fluoranthene (BkFA)	207-08-9	Rubber or plastic parts of toys and childcare	0.00005 mass% of the plastic or rubber part	false	0.00
Benzyl butyl phthalate (BBP)	85-68-7	All	0.1 mass% in homogenous material	false	0.00
Beryllium Oxide	1304-56-9	All	0.1 mass%	false	0.00
Bis (2-ethylhexyl)phthalate	117-81-7	All	0.1 mass% in homogenous material	false	0.00
Bis(2-methoxyethyl) ether	111-96-6	All	0.1 mass% of article	false	0.00
Bis(2-methoxyethyl) phthalate	117-82-8	All	0.1 mass% of article	false	0.00
Bis(pentabromophenyl) ether	1163-19-5	All	0.1 mass% of article	false	0.00
Bis(tributyltin) oxide (TBTO)	56-35-9	All	Intentionally added or 0.1 mass% of article	false	0.00
Boric acid	10043-35-3; 11113-50-1	All	0.1 mass% of article	false	0.00
Cadmium	7440-43-9	All	0.1 mass% of article	false	0.00
Cadmium hydroxide	21041-95-2	All	0.1 mass% of article	false	0.00
Cadmium oxide	1306-19-0	All	0.1 mass% of article	false	0.00
Cadmium sulphide	1306-23-6	All	0.1 mass% of article	false	0.00
Chrysen (CHR)	218-01-9	Rubber or plastic parts that come into direct,	0.0001 mass% of the plastic or rubber part	false	0.00
Chrysen (CHR)	218-01-9	Rubber or plastic parts of toys and childcare	0.00005 mass% of the plastic or rubber part	false	0.00
Chrysene	218-01-9	All	0.1 mass% of article	false	0.00
Cobalt dichloride	7646-79-9	All	0.1 mass% of article	false	0.00
Decamethylcyclopentasil oxane	541-02-6	All	0.1 mass% of article	false	0.00
Diarsenic pentoxide	1303-28-2	All	0.1 mass% of article	false	0.00
Diarsenic trioxide	1327-53-3	All	0.1 mass% of article	false	0.00
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	Rubber or plastic parts that come into direct,	0.0001 mass% of the plastic or rubber part	false	0.00
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	Rubber or plastic parts of toys and childcare	0.00005 mass% of the plastic or rubber part	false	0.00
Diboron trioxide	1303-86-2	All	0.1 mass% of article	false	0.00
Dibutyl phthalate (DBP)	84-74-2	All	0.1 mass% in homogenous material	false	0.00
Dibutyltin dichloride (DBTC)	683-18-1	All	0.1 mass% of article	false	0.00
Dicyclohexyl phthalate	84-61-7	All	0.1 mass% of article	false	0.00

Diisobutyl phthalate	84-69-5	All	0.1 mass% in homogenous material	false	0.00
Di-isodecyl phthalate (DIDP)	68515-49-1; 26761-40-0	All	Intentionally added	false	0.00
Diisohexyl phthalate	71850-09-4	All	0.1 mass% of article	false	0.00
Diisononyl phthalate (DINP)	28553-12-0; 68515-48-0	All	Intentionally added	false	0.00
Diisopentyl phthalate	605-50-5	All	0.1 mass% of article	false	0.00
Dimethylfumarate (DMF)	624-49-7	All	0.00001 mass% of the part	false	0.00
Di-n-hexyl phthalate (DnHP)	84-75-3	All	Intentionally added or 0.1 mass% of article	false	0.00
Dioxobis(stearato)trilead	12578-12-0	All	0.1 mass% of article	false	0.00
Dipentyl phthalate (DPP)	131-18-0	All	0.1 mass% of article	false	0.00
Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diyl]bis(4-aminobenzoate)	573-58-0	All	0.1 mass% of article	false	0.00
Disodium 4-amino-3-[[4'-[[2,4-diaminophenyl]oxy]phenyl]oxy]benzoate	1937-37-7	All	0.1 mass% of article	false	0.00
Disodium octaborate	12008-41-2	All	0.1 mass% of article	false	0.00
Dodecamethylcyclohexasiloxane	540-97-6	All	0.1 mass% of article	false	0.00
Fatty acids, C16-18, lead salts	91031-62-8	All	0.1 mass% of article	false	0.00
Fluoranthene	206-44-0	All	0.1 mass% of article	false	0.00
Formaldehyde	50-00-0	Textiles	0.0075 mass % of textile	false	0.00
Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	All	0.1 mass% of article	false	0.00
Lead	7439-92-1	All	0.1 mass% of article	true	0.065
Lead chromate	7758-97-6	All	0.1 mass% of article	false	0.00
Lead chromate molybdate sulphate red	12656-85-8	All	0.1 mass% of article	false	0.00
Lead cyanamidate	20837-86-9	All	0.1 mass% of article	false	0.00
Lead dinitrate	10099-74-8	All	0.1 mass% of article	false	0.00
Lead oxide sulfate	12036-76-9	All	0.1 mass% of article	false	0.00
Lead sulfochromate yellow (C.I. Pigment 17)	1344-37-2	All	0.1 mass% of article	false	0.00
Lead titanium trioxide	12060-00-3	All	0.1 mass% of article	false	0.00
Lead titanium zirconium oxide	12626-81-2	All	0.1 mass% of article	false	0.00
N,N-dimethylformamide	68-12-2	All	0.1 mass% of article	false	0.00
N-pentyl-isopentylphthalate	776297-69-9	All	0.1 mass% of article	false	0.00
Octamethylcyclotetrasiloxane	556-67-2	All	0.1 mass% of article	false	0.00



Orange lead (lead tetroxide)	1314-41-6	All	0.1 mass% of article	false	0.00
Pentadecafluorooctanoic acid (PFOA)	335-67-1	All	0.1 mass% of article	false	0.00
Pentalead tetraoxide sulphate	12065-90-6	All	0.1 mass% of article	false	0.00
Pentazinc chromate octahydroxide	49663-84-5	All	0.1 mass% of article	false	0.00
Phenanthrene	85-01-8	All	0.1 mass% of article	false	0.00
Potassium hydroxyoctaoxodizincate	11103-86-9	All	0.1 mass% of article	false	0.00
Pyrene	129-00-0	All	0.1 mass% of article	false	0.00
Pyrochlore, antimony lead yellow	8012-00-8	All	0.1 mass% of article	false	0.00
Reaction mass of 2-ethylhexyl		All	0.1 mass% of article	false	0.00
Silicic acid (H <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ), barium salt (1:1).	68784-75-8	All	0.1 mass% of article	false	0.00
Strontium chromate	7789-06-2	All	0.1 mass% of article	false	0.00
Sulfurous acid, lead salt, dibasic	62229-08-7	All	0.1 mass% of article	false	0.00
Terphenyl, hydrogenated	61788-32-7	All	0.1 mass% of article	false	0.00
Tetraboron disodium heptaoxide, hydrate	12267-73-1	All	0.1 mass% of article	false	0.00
Tetralead trioxide sulphate	12202-17-4	All	0.1 mass% of article	false	0.00
Trilead dioxide phosphonate	12141-20-7	All	0.1 mass% of article	false	0.00
Tris(2-chloroethyl) phosphate	115-96-8	All	0.1 mass% of article	false	0.00
Trixylyl phosphate	25155-23-1	All	0.1 mass% of article	false	0.00

Part ID	Description	# of Units	Part Mass %
IC	IC	2	0.082

### RoHS

Homogenous Material Name	Material Class ID	HM Mass %	Substance Group	Reportable Application	Reporting Threshold	Above Threshold? (T/F)	Substance Mass % of HM	Exemption	Comments
			Benzyl butyl phthalate (BBP)	All	0.1 mass% in homogenous	false			
			Bis (2-ethylhexyl)phthalate	All	0.1 mass% in homogenous	false			
			Cadmium/Cadmium compounds	All, except batteries	0.01 mass% of total Cd in homogenous	false			
			Chromium (VI) Compounds	All	0.1 mass% of total Cr+6 in homogenous	false			
			Dibutyl phthalate (DBP)	All	0.1 mass% in homogenous	false			
			Diisobutyl phthalate	All	0.1 mass% in homogenous	false			
			Lead/Lead Compounds	All, except for: 1. batteries, 2. surface	0.1 mass% of total Pb in homogenous	false			
			Mercury/Mercury Compounds	All, except batteries	Intentionally Added or 0.1 mass% of total	false			
			Polybrominated biphenyls (PBB)	All	0.1 mass% in homogenous	false			
			Polybrominated diphenyl ethers (PBDE)	All	0.1 mass% in homogenous	false			

### Low Halogen

Homogenous Material Name	Material Class ID	HM Mass %	Substance Group	Reportable Application	Reporting Threshold	Above Threshold? (T/F)	Substance Mass % of HM	Comments
IC		10.510	Chlorinated Flame Retardants (CFR)	Printed Wiring Board (PWB) Laminates	0.09 mass% total chlorine content in	true	20.002	

### Other Declarable Substances

Substance Group	Substance	CAS #	Reportable Application	Reporting Threshold	Above Threshold? (T/F)	Substance Mass (% of Article)	Comments
1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropent			All	0.1 mass% of article	false	0.00	
4-Nonylphenol, branched and linear,			All	0.1 mass% of article	false	0.00	
Alkanes, C10-13, chloro (Short Chain Chlorinated			All	Intentionally added or 0.1 mass% of article	false	0.00	
Aluminosilicate Refractory Ceramic			All	0.1 mass% of article	false	0.00	
Asbestos			All	Intentionally added	false	0.00	
Cadmium/Cadmium compounds			Batteries	0.001% by weight of battery	false	0.00	

Dibutyltin (DBT) compounds			All	0.1 mass% of tin in the part	false	0.00
Diocetyl tin (DOT) compounds			(a) textile and leather articles intended to	0.1 mass% of tin in the part	false	0.00
Disodium tetraborate, anhydrous			All	0.1 mass% of article	false	0.00
Fluorinated Greenhouse Gases (PFC, SF6, HFC)			All	Intentionally Added	false	0.00
Hexabromocyclododecane (HBCDD)			All	Intentionally added or 0.01 mass% of article	false	0.00
Hexahydromethylphthalic anhydride			All	0.1 mass% of article	false	0.00
Lead/Lead Compounds			Consumer products designed or intended	0.01 mass%	false	0.00
Lead/Lead Compounds			Batteries	0.004 mass% of battery	false	0.00
Mercury/Mercury Compounds			Batteries	Intentionally added or 0.0001 mass% of battery	false	0.00
Nickel/Nickel Compounds			All, where prolonged skin contact is expected	Intentionally Added	false	0.00
Nonadecafluorodecanoic acid (PFDA) and its			All	0.1 mass% of article	false	0.00
Ozone Depleting Substances (CFC, Halon,			All	Intentionally Added	false	0.00
Perchlorates			All	6 x 10 <sup>-7</sup> mass% of battery or product part	false	0.00
Perfluorobutane sulfonic acid (PFBS) and its salts			All	0.1 mass% of article	false	0.00
Perfluorohexane-1-sulphonic acid and its salts			All	0.1 mass% of article	false	0.00
Perfluorononan-1-oic-acid and its sodium and			All	0.1 mass% of article	false	0.00
Perfluorooctanoic acid and its salts			All	0.000025 mass% of PFOA including its salts in	false	0.00
PFOA-related substances			All	0.0001 mass% of one or a combination of	false	0.00
Polychlorinated Biphenyls (PCBs) and			All	Intentionally added	false	0.00
Polychlorinated naphthalenes			All	Intentionally added	false	0.00
Radioactive substances			All	Intentionally added	false	0.00
Tris(4-nonylphenyl, branched and linear)			All	0.1 mass% of article	false	0.00
Tri-substituted organostannic			All	Intentionally added or 0.1 mass% of tin in the	false	0.00
Zirconia Aluminosilicate Refractory Ceramic			All	0.1 mass% of article	false	0.00
	[Phthalato(2-)]dioxotrilead	69011-06-9	All	0.1 mass% of article	false	0.00
	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters	68515-51-5; 68648-93-1	All	0.1 mass% of article	false	0.00
	1,2-Benzenedicarboxylic acid, di-C6-8-branched	71888-89-6	All	0.1 mass% of article	false	0.00
	1,2-Benzenedicarboxylic acid, di-C7-11-branched	68515-42-4	All	0.1 mass% of article	false	0.00
	1,2-Benzenedicarboxylic acid, dihexyl ester,	68515-50-4	All	0.1 mass% of article	false	0.00

1,2-Benzenedicarboxylic acid, dipentyl ester,	84777-06-0	All	0.1 mass% of article	false	0.00
1,2-bis(2-methoxyethoxy)ethane (TEGDME)	112-49-2	All	0.1 mass% of article	false	0.00
1,2-diethoxyethane	629-14-1	All	0.1 mass% of article	false	0.00
1,2-dimethoxyethane; ethylene glycol dimethyl	110-71-4	All	0.1 mass% of article	false	0.00
1,3-propanesultone	1120-71-4	All	0.1 mass% of article	false	0.00
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)	36437-37-3	All	0.1 mass% of article	false	0.00
2-(2H-benzotriazol-2-yl)-4,6-ditertbutylphenol	25973-55-1	All	0.1 mass% of article	false	0.00
2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	All	0.1 mass% of article	false	0.00
2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)pheno	3864-99-1	All	0.1 mass% of article	false	0.00
2-benzotriazol-2-yl-4,6-ditert-butylphenol (UV-320)	3846-71-7	All	Intentionally added or 0.1 mass% of article	false	0.00
2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo	15571-58-1	All	0.1 mass% of article	false	0.00
4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	All	0.1 mass% of article	false	0.00
4,4'-isopropylidenediphenol	80-05-7	All	Intentionally added or 0.1 mass% of article	false	0.00
4-aminoazobenzene	60-09-3	All	0.1 mass% of article	false	0.00
Ammonium pentadecafluorooctanoat	3825-26-1	All	0.1 mass% of article	false	0.00
Benz[a]anthracene	56-55-3	All	0.1 mass% of article	false	0.00
Benzo[a]anthracene (BaA)	56-55-3	Rubber or plastic parts that come into direct,	0.0001 mass% of the plastic or rubber part	false	0.00
Benzo[a]anthracene (BaA)	56-55-3	Rubber or plastic parts of toys and childcare	0.00005 mass% of the plastic or rubber part	false	0.00
Benzo[a]pyrene (BaP)	50-32-8	Rubber or plastic parts that come into direct,	0.0001 mass% of the plastic or rubber part	false	0.00
Benzo[a]pyrene (BaP)	50-32-8	Rubber or plastic parts of toys and childcare	0.00005 mass% of the plastic or rubber part	false	0.00
Benzo[b]fluoranthene (BbFA)	205-99-2	Rubber or plastic parts that come into direct,	0.0001 mass% of the plastic or rubber part	false	0.00
Benzo[b]fluoranthene (BbFA)	205-99-2	Rubber or plastic parts of toys and childcare	0.00005 mass% of the plastic or rubber part	false	0.00
Benzo[def]chrysene (Benzolalpyrene)	50-32-8	All	0.1 mass% of article	false	0.00
Benzo[e]pyrene (BeP)	192-97-2	Rubber or plastic parts that come into direct,	0.0001 mass% of the plastic or rubber part	false	0.00
Benzo[e]pyrene (BeP)	192-97-2	Rubber or plastic parts of toys and childcare	0.00005 mass% of the plastic or rubber part	false	0.00
Benzo[ghi]perylene	191-24-2	All	0.1 mass% of article	false	0.00
Benzo[j]fluoranthene (BjFA)	205-82-3	Rubber or plastic parts that come into direct,	0.0001 mass% of the plastic or rubber part	false	0.00
Benzo[j]fluoranthene (BjFA)	205-82-3	Rubber or plastic parts of toys and childcare	0.00005 mass% of the plastic or rubber part	false	0.00
Benzo[k]fluoranthene	207-08-9	All	0.1 mass% of article	false	0.00

Benzo[k]fluoranthene (BkFA)	207-08-9	Rubber or plastic parts that come into direct,	0.0001 mass% of the plastic or rubber part	false	0.00
Benzo[k]fluoranthene (BkFA)	207-08-9	Rubber or plastic parts of toys and childcare	0.00005 mass% of the plastic or rubber part	false	0.00
Benzyl butyl phthalate (BBP)	85-68-7	All	0.1 mass% in homogenous material	false	0.00
Beryllium Oxide	1304-56-9	All	0.1 mass%	false	0.00
Bis (2-ethylhexyl)phthalate	117-81-7	All	0.1 mass% in homogenous material	false	0.00
Bis(2-methoxyethyl) ether	111-96-6	All	0.1 mass% of article	false	0.00
Bis(2-methoxyethyl) phthalate	117-82-8	All	0.1 mass% of article	false	0.00
Bis(pentabromophenyl) ether	1163-19-5	All	0.1 mass% of article	false	0.00
Bis(tributyltin) oxide (TBTO)	56-35-9	All	Intentionally added or 0.1 mass% of article	false	0.00
Boric acid	10043-35-3; 11113-50-1	All	0.1 mass% of article	false	0.00
Cadmium	7440-43-9	All	0.1 mass% of article	false	0.00
Cadmium hydroxide	21041-95-2	All	0.1 mass% of article	false	0.00
Cadmium oxide	1306-19-0	All	0.1 mass% of article	false	0.00
Cadmium sulphide	1306-23-6	All	0.1 mass% of article	false	0.00
Chrysen (CHR)	218-01-9	Rubber or plastic parts that come into direct,	0.0001 mass% of the plastic or rubber part	false	0.00
Chrysen (CHR)	218-01-9	Rubber or plastic parts of toys and childcare	0.00005 mass% of the plastic or rubber part	false	0.00
Chrysene	218-01-9	All	0.1 mass% of article	false	0.00
Cobalt dichloride	7646-79-9	All	0.1 mass% of article	false	0.00
Decamethylcyclopentasil oxane	541-02-6	All	0.1 mass% of article	false	0.00
Diarsenic pentoxide	1303-28-2	All	0.1 mass% of article	false	0.00
Diarsenic trioxide	1327-53-3	All	0.1 mass% of article	false	0.00
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	Rubber or plastic parts that come into direct,	0.0001 mass% of the plastic or rubber part	false	0.00
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	Rubber or plastic parts of toys and childcare	0.00005 mass% of the plastic or rubber part	false	0.00
Diboron trioxide	1303-86-2	All	0.1 mass% of article	false	0.00
Dibutyl phthalate (DBP)	84-74-2	All	0.1 mass% in homogenous material	false	0.00
Dibutyltin dichloride (DBTC)	683-18-1	All	0.1 mass% of article	false	0.00
Dicyclohexyl phthalate	84-61-7	All	0.1 mass% of article	false	0.00
Diisobutyl phthalate	84-69-5	All	0.1 mass% in homogenous material	false	0.00
Di-isodecyl phthalate (DIDP)	68515-49-1; 26761-40-0	All	Intentionally added	false	0.00

	Diisohexyl phthalate	71850-09-4	All	0.1 mass% of article	false	0.00
	Diisononyl phthalate (DINP)	28553-12-0; 68515-48-0	All	Intentionally added	false	0.00
	Diisopentyl phthalate	605-50-5	All	0.1 mass% of article	false	0.00
	Dimethylfumarate (DMF)	624-49-7	All	0.00001 mass% of the part	false	0.00
	Di-n-hexyl phthalate (DnHP)	84-75-3	All	Intentionally added or 0.1 mass% of article	false	0.00
	Dioxobis(stearato)trilead	12578-12-0	All	0.1 mass% of article	false	0.00
	Dipentyl phthalate (DPP)	131-18-0	All	0.1 mass% of article	false	0.00
	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diyl]bis(4-aminobenzoate)	573-58-0	All	0.1 mass% of article	false	0.00
	Disodium 4-amino-3-[[4'-(2,4-diaminophenyl)phenyl]phenyl]benzoate	1937-37-7	All	0.1 mass% of article	false	0.00
	Disodium octaborate	12008-41-2	All	0.1 mass% of article	false	0.00
	Dodecamethylcyclohexasiloxane	540-97-6	All	0.1 mass% of article	false	0.00
	Fatty acids, C16-18, lead salts	91031-62-8	All	0.1 mass% of article	false	0.00
	Fluoranthene	206-44-0	All	0.1 mass% of article	false	0.00
	Formaldehyde	50-00-0	Textiles	0.0075 mass % of textile	false	0.00
	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	All	0.1 mass% of article	false	0.00
	Lead	7439-92-1	All	0.1 mass% of article	false	0.00
	Lead chromate	7758-97-6	All	0.1 mass% of article	false	0.00
	Lead chromate molybdate sulphate red	12656-85-8	All	0.1 mass% of article	false	0.00
	Lead cyanamidate	20837-86-9	All	0.1 mass% of article	false	0.00
	Lead dinitrate	10099-74-8	All	0.1 mass% of article	false	0.00
	Lead oxide sulfate	12036-76-9	All	0.1 mass% of article	false	0.00
	Lead sulfochromate yellow (C.I. Pigment 37)	1344-37-2	All	0.1 mass% of article	false	0.00
	Lead titanium trioxide	12060-00-3	All	0.1 mass% of article	false	0.00
	Lead titanium zirconium oxide	12626-81-2	All	0.1 mass% of article	false	0.00
	N,N-dimethylformamide	68-12-2	All	0.1 mass% of article	false	0.00
	N-pentyl-isopentylphthalate	776297-69-9	All	0.1 mass% of article	false	0.00
	Octamethylcyclotetrasiloxane	556-67-2	All	0.1 mass% of article	false	0.00
	Orange lead (lead tetroxide)	1314-41-6	All	0.1 mass% of article	false	0.00
	Pentadecafluorooctanoic acid (PFOA)	335-67-1	All	0.1 mass% of article	false	0.00

Pentalead tetraoxide sulphate	12065-90-6	All	0.1 mass% of article	false	0.00
Pentazinc chromate octahydroxide	49663-84-5	All	0.1 mass% of article	false	0.00
Phenanthrene	85-01-8	All	0.1 mass% of article	false	0.00
Potassium hydroxvctaoxidizincate	11103-86-9	All	0.1 mass% of article	false	0.00
Pyrene	129-00-0	All	0.1 mass% of article	false	0.00
Pyrochlore, antimony lead yellow	8012-00-8	All	0.1 mass% of article	false	0.00
Reaction mass of 2-ethylhexyl		All	0.1 mass% of article	false	0.00
Silicic acid (H <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ), barium salt (1:1).	68784-75-8	All	0.1 mass% of article	false	0.00
Strontium chromate	7789-06-2	All	0.1 mass% of article	false	0.00
Sulfurous acid, lead salt, dibasic	62229-08-7	All	0.1 mass% of article	false	0.00
Terphenyl, hydrogenated	61788-32-7	All	0.1 mass% of article	false	0.00
Tetraboron disodium heptaoxide, hydrate	12267-73-1	All	0.1 mass% of article	false	0.00
Tetralead trioxide sulphate	12202-17-4	All	0.1 mass% of article	false	0.00
Trilead dioxide phosphonate	12141-20-7	All	0.1 mass% of article	false	0.00
Tris(2-chloroethyl) phosphate	115-96-8	All	0.1 mass% of article	false	0.00
Trixylyl phosphate	25155-23-1	All	0.1 mass% of article	false	0.00

Part ID	Description	# of Units	Part Mass %
Resistor	Resistor	558	3.38

## RoHS

Homogenous Material Name	Material Class ID	HM Mass %	Substance Group	Reportable Application	Reporting Threshold	Above Threshold? (T/F)	Substance Mass % of HM	Exemption	Comments
			Benzyl butyl phthalate (BBP)	All	0.1 mass% in homogenous	false			
			Bis (2-ethylhexyl)phthalate	All	0.1 mass% in homogenous	false			
			Cadmium/Cadmium compounds	All, except batteries	0.01 mass% of total Cd in homogenous	false			
			Chromium (VI) Compounds	All	0.1 mass% of total Cr+6 in homogenous	false			
			Dibutyl phthalate (DBP)	All	0.1 mass% in homogenous	false			
			Diisobutyl phthalate	All	0.1 mass% in homogenous	false			
Ag/pd/Glass		1.022	Lead/Lead Compounds	All, except for: 1. batteries, 2. surface	0.1 mass% of total Pb in homogenous	true	1.500	7(c)-IV	
Glass electrical contact	M-010	0.202	Lead/Lead Compounds	All, except for: 1. batteries, 2. surface	0.1 mass% of total Pb in homogenous	true	99.900	7(c)-I	
Resistive layer		1.033	Lead/Lead Compounds	All, except for: 1. batteries, 2. surface	0.1 mass% of total Pb in homogenous	true	10.184		
			Mercury/Mercury Compounds	All, except batteries	Intentionally Added or 0.1 mass% of total	false			
			Polybrominated biphenyls (PBB)	All	0.1 mass% in homogenous	false			
			Polybrominated diphenyl ethers (PBDE)	All	0.1 mass% in homogenous	false			

## Low Halogen

Homogenous Material Name	Material Class ID	HM Mass %	Substance Group	Reportable Application	Reporting Threshold	Above Threshold? (T/F)	Substance Mass % of HM	Comments
			Brominated flame retardants (other than Chlorinated Flame Retardants (CFR))	Printed wiring board laminate	0.09 mass% total bromine content in	false		
			PVC	Printed Wiring Board (PWB) Laminates	0.09 mass% total chlorine content in	false		
	M-012					false		

## Other Declarable Substances

Substance Group	Substance	CAS #	Reportable Application	Reporting Threshold	Above Threshold? (T/F)	Substance Mass (% of Article)	Comments
1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropent			All	0.1 mass% of article	false	0.00	
4-Nonylphenol, branched and linear,			All	0.1 mass% of article	false	0.00	



Alkanes, C10-13, chloro (Short Chain Chlorinated			All	Intentionally added or 0.1 mass% of article	false	0.00
Aluminosilicate Refractory Ceramic			All	0.1 mass% of article	false	0.00
Asbestos			All	Intentionally added	false	0.00
Cadmium/Cadmium compounds			Batteries	0.001% by weight of battery	false	0.00
Dibutyltin (DBT) compounds			All	0.1 mass% of tin in the part	false	0.00
Diocetyl tin (DOT) compounds			(a) textile and leather articles intended to	0.1 mass% of tin in the part	false	0.00
Disodium tetraborate, anhydrous			All	0.1 mass% of article	false	0.00
Fluorinated Greenhouse Gases (PFC, SF6, HFC)			All	Intentionally Added	false	0.00
Hexabromocyclododecane (HBCDD)			All	Intentionally added or 0.01 mass% of article	false	0.00
Hexahydromethylphthalic anhydride			All	0.1 mass% of article	false	0.00
Lead/Lead Compounds			Consumer products designed or intended	0.01 mass%	false	0.00
Lead/Lead Compounds			Batteries	0.004 mass% of battery	false	0.00
Mercury/Mercury Compounds			Batteries	Intentionally added or 0.0001 mass% of battery	false	0.00
Nickel/Nickel Compounds			All, where prolonged skin contact is expected	Intentionally Added	false	0.00
Nonadecafluorodecanoic acid (PFDA) and its			All	0.1 mass% of article	false	0.00
Ozone Depleting Substances (CFC, Halon,			All	Intentionally Added	false	0.00
Perchlorates			All	6 x 10 <sup>-7</sup> mass% of battery or product part	false	0.00
Perfluorobutane sulfonic acid (PFBS) and its salts			All	0.1 mass% of article	false	0.00
Perfluorohexane-1-sulphonic acid and its salts			All	0.1 mass% of article	false	0.00
Perfluorononan-1-oic-acid and its sodium and			All	0.1 mass% of article	false	0.00
Perfluorooctanoic acid and its salts			All	0.000025 mass% of PFOA including its salts in	false	0.00
PFOA-related substances			All	0.0001 mass% of one or a combination of	false	0.00
Polychlorinated Biphenyls (PCBs) and			All	Intentionally added	false	0.00
Polychlorinated naphthalenes			All	Intentionally added	false	0.00
Radioactive substances			All	Intentionally added	false	0.00
Tris(4-nonylphenyl, branched and linear)			All	0.1 mass% of article	false	0.00
Tri-substituted organostannic			All	Intentionally added or 0.1 mass% of tin in the	false	0.00
Zirconia Aluminosilicate Refractory Ceramic			All	0.1 mass% of article	false	0.00
	[Phthalato(2-)]dioxotrilead	69011-06-9	All	0.1 mass% of article	false	0.00

1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters	68515-51-5; 68648-93-1	All	0.1 mass% of article	false	0.00
1,2-Benzenedicarboxylic acid, di-C6-8-branched	71888-89-6	All	0.1 mass% of article	false	0.00
1,2-Benzenedicarboxylic acid, di-C7-11-branched	68515-42-4	All	0.1 mass% of article	false	0.00
1,2-Benzenedicarboxylic acid, dihexyl ester.	68515-50-4	All	0.1 mass% of article	false	0.00
1,2-Benzenedicarboxylic acid, dipentyl ester.	84777-06-0	All	0.1 mass% of article	false	0.00
1,2-bis(2-methoxyethoxy) ethane (TEGDME;	112-49-2	All	0.1 mass% of article	false	0.00
1,2-diethoxyethane	629-14-1	All	0.1 mass% of article	false	0.00
1,2-dimethoxyethane; ethylene glycol dimethyl	110-71-4	All	0.1 mass% of article	false	0.00
1,3-propanesultone	1120-71-4	All	0.1 mass% of article	false	0.00
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)	36437-37-3	All	0.1 mass% of article	false	0.00
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol	25973-55-1	All	0.1 mass% of article	false	0.00
2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	All	0.1 mass% of article	false	0.00
2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)pheno	3864-99-1	All	0.1 mass% of article	false	0.00
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	All	Intentionally added or 0.1 mass% of article	false	0.00
2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo	15571-58-1	All	0.1 mass% of article	false	0.00
4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	All	0.1 mass% of article	false	0.00
4,4'-isopropylidenediphenol	80-05-7	All	Intentionally added or 0.1 mass% of article	false	0.00
4-aminoazobenzene	60-09-3	All	0.1 mass% of article	false	0.00
Ammonium pentadecafluorooctanoat	3825-26-1	All	0.1 mass% of article	false	0.00
Benz[a]anthracene	56-55-3	All	0.1 mass% of article	false	0.00
Benzo[a]anthracene (BaA)	56-55-3	Rubber or plastic parts that come into direct.	0.0001 mass% of the plastic or rubber part	false	0.00
Benzo[a]anthracene (BaA)	56-55-3	Rubber or plastic parts of toys and childcare	0.00005 mass% of the plastic or rubber part	false	0.00
Benzo[a]pyrene (BaP)	50-32-8	Rubber or plastic parts that come into direct.	0.0001 mass% of the plastic or rubber part	false	0.00
Benzo[a]pyrene (BaP)	50-32-8	Rubber or plastic parts of toys and childcare	0.00005 mass% of the plastic or rubber part	false	0.00
Benzo[b]fluoranthene (BbFA)	205-99-2	Rubber or plastic parts that come into direct.	0.0001 mass% of the plastic or rubber part	false	0.00
Benzo[b]fluoranthene (BbFA)	205-99-2	Rubber or plastic parts of toys and childcare	0.00005 mass% of the plastic or rubber part	false	0.00
Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	All	0.1 mass% of article	false	0.00
Benzo[e]pyrene (BeP)	192-97-2	Rubber or plastic parts that come into direct.	0.0001 mass% of the plastic or rubber part	false	0.00
Benzo[e]pyrene (BeP)	192-97-2	Rubber or plastic parts of toys and childcare	0.00005 mass% of the plastic or rubber part	false	0.00

	Benzo[ghi]perylene	191-24-2	All	0.1 mass% of article	false	0.00
	Benzo[j]fluoranthene (BiFA)	205-82-3	Rubber or plastic parts that come into direct.	0.0001 mass% of the plastic or rubber part	false	0.00
	Benzo[j]fluoranthene (BiFA)	205-82-3	Rubber or plastic parts of toys and childcare	0.00005 mass% of the plastic or rubber part	false	0.00
	Benzo[k]fluoranthene	207-08-9	All	0.1 mass% of article	false	0.00
	Benzo[k]fluoranthene (BkFA)	207-08-9	Rubber or plastic parts that come into direct.	0.0001 mass% of the plastic or rubber part	false	0.00
	Benzo[k]fluoranthene (BkFA)	207-08-9	Rubber or plastic parts of toys and childcare	0.00005 mass% of the plastic or rubber part	false	0.00
	Benzyl butyl phthalate (BBP)	85-68-7	All	0.1 mass% in homogenous material	false	0.00
	Beryllium Oxide	1304-56-9	All	0.1 mass%	false	0.00
	Bis (2-ethylhexyl)phthalate	117-81-7	All	0.1 mass% in homogenous material	false	0.00
	Bis(2-methoxyethyl) ether	111-96-6	All	0.1 mass% of article	false	0.00
	Bis(2-methoxyethyl) phthalate	117-82-8	All	0.1 mass% of article	false	0.00
	Bis(pentabromophenyl) ether	1163-19-5	All	0.1 mass% of article	false	0.00
	Bis(tributyltin) oxide (TBTO)	56-35-9	All	Intentionally added or 0.1 mass% of article	false	0.00
	Boric acid	10043-35-3; 11113-50-1	All	0.1 mass% of article	false	0.00
	Cadmium	7440-43-9	All	0.1 mass% of article	false	0.00
	Cadmium hydroxide	21041-95-2	All	0.1 mass% of article	false	0.00
	Cadmium oxide	1306-19-0	All	0.1 mass% of article	false	0.00
	Cadmium sulphide	1306-23-6	All	0.1 mass% of article	false	0.00
	Chrysen (CHR)	218-01-9	Rubber or plastic parts that come into direct.	0.0001 mass% of the plastic or rubber part	false	0.00
	Chrysen (CHR)	218-01-9	Rubber or plastic parts of toys and childcare	0.00005 mass% of the plastic or rubber part	false	0.00
	Chrysene	218-01-9	All	0.1 mass% of article	false	0.00
	Cobalt dichloride	7646-79-9	All	0.1 mass% of article	false	0.00
	Decamethylcyclopentasil oxane	541-02-6	All	0.1 mass% of article	false	0.00
	Diarsenic pentoxide	1303-28-2	All	0.1 mass% of article	false	0.00
	Diarsenic trioxide	1327-53-3	All	0.1 mass% of article	false	0.00
	Dibenzo[a,h]anthracene (DBAhA)	53-70-3	Rubber or plastic parts that come into direct.	0.0001 mass% of the plastic or rubber part	false	0.00
	Dibenzo[a,h]anthracene (DBAhA)	53-70-3	Rubber or plastic parts of toys and childcare	0.00005 mass% of the plastic or rubber part	false	0.00
	Diboron trioxide	1303-86-2	All	0.1 mass% of article	false	0.00
	Dibutyl phthalate (DBP)	84-74-2	All	0.1 mass% in homogenous material	false	0.00

Dibutyltin dichloride (DBTC)	683-18-1	All	0.1 mass% of article	false	0.00
Dicyclohexyl phthalate	84-61-7	All	0.1 mass% of article	false	0.00
Diisobutyl phthalate	84-69-5	All	0.1 mass% in homogenous material	false	0.00
Di-isodecyl phthalate (DIDP)	68515-49-1; 26761-40-0	All	Intentionally added	false	0.00
Diisohexyl phthalate	71850-09-4	All	0.1 mass% of article	false	0.00
Diisononyl phthalate (DINP)	28553-12-0; 68515-48-0	All	Intentionally added	false	0.00
Diisopentyl phthalate	605-50-5	All	0.1 mass% of article	false	0.00
Dimethylfumarate (DMF)	624-49-7	All	0.00001 mass% of the part	false	0.00
Di-n-hexyl phthalate (DnHP)	84-75-3	All	Intentionally added or 0.1 mass% of article	false	0.00
Dioxobis(stearato)trilead	12578-12-0	All	0.1 mass% of article	false	0.00
Dipentyl phthalate (DPP)	131-18-0	All	0.1 mass% of article	false	0.00
Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diyl]bis(4-aminobenzoate)	573-58-0	All	0.1 mass% of article	false	0.00
Disodium 4-amino-3-[[4'-[[2,4-diaminophenyl]oxy]phenyl]oxy]benzoate	1937-37-7	All	0.1 mass% of article	false	0.00
Disodium octaborate	12008-41-2	All	0.1 mass% of article	false	0.00
Dodecamethylcyclohexasiloxane	540-97-6	All	0.1 mass% of article	false	0.00
Fatty acids, C16-18, lead salts	91031-62-8	All	0.1 mass% of article	false	0.00
Fluoranthene	206-44-0	All	0.1 mass% of article	false	0.00
Formaldehyde	50-00-0	Textiles	0.0075 mass % of textile	false	0.00
Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	All	0.1 mass% of article	false	0.00
Lead	7439-92-1	All	0.1 mass% of article	false	0.00
Lead chromate	7758-97-6	All	0.1 mass% of article	false	0.00
Lead chromate molybdate sulphate red	12656-85-8	All	0.1 mass% of article	false	0.00
Lead cyanamidate	20837-86-9	All	0.1 mass% of article	false	0.00
Lead dinitrate	10099-74-8	All	0.1 mass% of article	false	0.00
Lead oxide sulfate	12036-76-9	All	0.1 mass% of article	false	0.00
Lead sulfochromate yellow (C.I. Pigment)	1344-37-2	All	0.1 mass% of article	false	0.00
Lead titanium trioxide	12060-00-3	All	0.1 mass% of article	false	0.00
Lead titanium zirconium oxide	12626-81-2	All	0.1 mass% of article	false	0.00
N,N-dimethylformamide	68-12-2	All	0.1 mass% of article	false	0.00

N-pentyl-isopentylphthalate	776297-69-9	All	0.1 mass% of article	false	0.00
Octamethylcyclotetrasiloxane	556-67-2	All	0.1 mass% of article	false	0.00
Orange lead (lead tetroxide)	1314-41-6	All	0.1 mass% of article	false	0.00
Pentadecafluorooctanoic acid (PFOA)	335-67-1	All	0.1 mass% of article	false	0.00
Pentalead tetraoxide sulphate	12065-90-6	All	0.1 mass% of article	false	0.00
Pentazinc chromate octahydroxide	49663-84-5	All	0.1 mass% of article	false	0.00
Phenanthrene	85-01-8	All	0.1 mass% of article	false	0.00
Potassium hydroxooctaoxidizincate	11103-86-9	All	0.1 mass% of article	false	0.00
Pyrene	129-00-0	All	0.1 mass% of article	false	0.00
Pyrochlore, antimony lead yellow	8012-00-8	All	0.1 mass% of article	false	0.00
Reaction mass of 2-ethylhexyl		All	0.1 mass% of article	false	0.00
Silicic acid (H <sub>2</sub> SiO <sub>5</sub> ), barium salt (1:1),	68784-75-8	All	0.1 mass% of article	false	0.00
Strontium chromate	7789-06-2	All	0.1 mass% of article	false	0.00
Sulfurous acid, lead salt, dibasic	62229-08-7	All	0.1 mass% of article	false	0.00
Terphenyl, hydrogenated	61788-32-7	All	0.1 mass% of article	false	0.00
Tetraboron disodium heptaoxide, hydrate	12267-73-1	All	0.1 mass% of article	false	0.00
Tetralead trioxide sulphate	12202-17-4	All	0.1 mass% of article	false	0.00
Trilead dioxide phosphonate	12141-20-7	All	0.1 mass% of article	false	0.00
Tris(2-chloroethyl) phosphate	115-96-8	All	0.1 mass% of article	false	0.00
Trixylyl phosphate	25155-23-1	All	0.1 mass% of article	false	0.00

Part ID	Description	# of Units	Part Mass %
Other Items 1	Other Items	1	96.14

## RoHS

Homogenous Material Name	Material Class ID	HM Mass %	Substance Group	Reportable Application	Reporting Threshold	Above Threshold? (T/F)	Substance Mass % of HM	Exemption	Comments
			Benzyl butyl phthalate (BBP)	All	0.1 mass% in homogenous	false			
			Bis (2-ethylhexyl)phthalate	All	0.1 mass% in homogenous	false			
			Cadmium/Cadmium compounds	All, except batteries	0.01 mass% of total Cd in homogenous	false			
			Chromium (VI) Compounds	All	0.1 mass% of total Cr+6 in homogenous	false			
			Dibutyl phthalate (DBP)	All	0.1 mass% in homogenous	false			
			Diisobutyl phthalate	All	0.1 mass% in homogenous	false			
			Lead/Lead Compounds	All, except for: 1. batteries, 2. surface	0.1 mass% of total Pb in homogenous	false			
			Mercury/Mercury Compounds	All, except batteries	Intentionally Added or 0.1 mass% of total	false			
			Polybrominated biphenyls (PBB)	All	0.1 mass% in homogenous	false			
			Polybrominated diphenyl ethers (PBDE)	All	0.1 mass% in homogenous	false			

## Low Halogen

Homogenous Material Name	Material Class ID	HM Mass %	Substance Group	Reportable Application	Reporting Threshold	Above Threshold? (T/F)	Substance Mass % of HM	Comments
			Brominated flame retardants (other than	Printed wiring board laminate	0.09 mass% total bromine content in	false		
			Chlorinated Flame Retardants (CFR)	Printed Wiring Board (PWB) Laminates	0.09 mass% total chlorine content in	false		
	M-012		PVC			false		

## Other Declarable Substances

Substance Group	Substance	CAS #	Reportable Application	Reporting Threshold	Above Threshold? (T/F)	Substance Mass (% of Article)	Comments
1,6,7,8,9,14,15,16,17,17, 18,18-Dodecachloropent			All	0.1 mass% of article	false		
4-Nonylphenol, branched and linear,			All	0.1 mass% of article	false		
Alkanes, C10-13, chloro (Short Chain Chlorinated			All	Intentionally added or 0.1 mass% of article	false		
Aluminosilicate Refractory Ceramic			All	0.1 mass% of article	false		

Asbestos			All	Intentionally added	false		
Cadmium/Cadmium compounds			Batteries	0.001% by weight of battery	false		
Dibutyltin (DBT) compounds			All	0.1 mass% of tin in the part	false		
Diocetyl tin (DOT) compounds			(a) textile and leather articles intended to	0.1 mass% of tin in the part	false		
Disodium tetraborate, anhydrous			All	0.1 mass% of article	false		
Fluorinated Greenhouse Gases (PFC, SF6, HFC)			All	Intentionally Added	false		
Hexabromocyclododecane (HBCDD)			All	Intentionally added or 0.01 mass% of article	false		
Hexahydromethylphthalic anhydride			All	0.1 mass% of article	false		
Lead/Lead Compounds			Consumer products designed or intended	0.01 mass%	false		
Lead/Lead Compounds			Batteries	0.004 mass% of battery	false		
Mercury/Mercury Compounds			Batteries	Intentionally added or 0.0001 mass% of battery	false		
Nickel/Nickel Compounds			All, where prolonged skin contact is expected	Intentionally Added	false		
Nonadecafluorodecanoic acid (PFDA) and its			All	0.1 mass% of article	false		
Ozone Depleting Substances (CFC, Halon,			All	Intentionally Added	false		
Perchlorates			All	6 x 10 <sup>-7</sup> mass% of battery or product part	false		
Perfluorobutane sulfonic acid (PFBS) and its salts			All	0.1 mass% of article	false		
Perfluorohexane-1-sulphonic acid and its salts			All	0.1 mass% of article	false		
Perfluorononan-1-oic acid and its sodium and			All	0.1 mass% of article	false		
Perfluorooctanoic acid and its salts			All	0.000025 mass% of PFOA including its salts in	false		
PFOA-related substances			All	0.0001 mass% of one or a combination of	false		
Polychlorinated Biphenyls (PCBs) and			All	Intentionally added	false		
Polychlorinated naphthalenes			All	Intentionally added	false		
Radioactive substances			All	Intentionally added	false		
Tris(4-nonylphenyl, branched and linear)			All	0.1 mass% of article	false		
Tri-substituted organostannic			All	Intentionally added or 0.1 mass% of tin in the	false		
Zirconia Aluminosilicate Refractory Ceramic			All	0.1 mass% of article	false		
	[Phthalato(2-)]dioxotrilead	69011-06-9	All	0.1 mass% of article	false		0.00
	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters	68515-51-5; 68648-93-1	All	0.1 mass% of article	false		0.00
	1,2-Benzenedicarboxylic acid, di-C6-8-branched	71888-89-6	All	0.1 mass% of article	false		0.00

1,2-Benzenedicarboxylic acid, di-C7-11-branched	68515-42-4	All	0.1 mass% of article	false	0.00
1,2-Benzenedicarboxylic acid, dihexyl ester,	68515-50-4	All	0.1 mass% of article	false	0.00
1,2-Benzenedicarboxylic acid, dipentyl ester,	84777-06-0	All	0.1 mass% of article	false	0.00
1,2-bis(2-methoxyethoxy)ethane (TEGDME)	112-49-2	All	0.1 mass% of article	false	0.00
1,2-diethoxyethane	629-14-1	All	0.1 mass% of article	false	0.00
1,2-dimethoxyethane; ethylene glycol dimethyl	110-71-4	All	0.1 mass% of article	false	0.00
1,3-propanesultone	1120-71-4	All	0.1 mass% of article	false	0.00
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)	36437-37-3	All	0.1 mass% of article	false	0.00
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol	25973-55-1	All	0.1 mass% of article	false	0.00
2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	All	0.1 mass% of article	false	0.00
2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)pheno	3864-99-1	All	0.1 mass% of article	false	0.00
2-benzotriazol-2-yl-4,6-ditert-butylphenol (UV-320)	3846-71-7	All	Intentionally added or 0.1 mass% of article	false	0.00
2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo	15571-58-1	All	0.1 mass% of article	false	0.00
4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	All	0.1 mass% of article	false	0.00
4,4'-isopropylidenediphenol	80-05-7	All	Intentionally added or 0.1 mass% of article	false	0.00
4-aminoazobenzene	60-09-3	All	0.1 mass% of article	false	0.00
Ammonium pentadecafluorooctanoat	3825-26-1	All	0.1 mass% of article	false	0.00
Benz[a]anthracene	56-55-3	All	0.1 mass% of article	false	0.00
Benzo[a]anthracene (BaA)	56-55-3	Rubber or plastic parts that come into direct,	0.0001 mass% of the plastic or rubber part	false	0.00
Benzo[a]anthracene (BaA)	56-55-3	Rubber or plastic parts of toys and childcare	0.00005 mass% of the plastic or rubber part	false	0.00
Benzo[a]pyrene (BaP)	50-32-8	Rubber or plastic parts that come into direct,	0.0001 mass% of the plastic or rubber part	false	0.00
Benzo[a]pyrene (BaP)	50-32-8	Rubber or plastic parts of toys and childcare	0.00005 mass% of the plastic or rubber part	false	0.00
Benzo[b]fluoranthene (BbFA)	205-99-2	Rubber or plastic parts that come into direct,	0.0001 mass% of the plastic or rubber part	false	0.00
Benzo[b]fluoranthene (BbFA)	205-99-2	Rubber or plastic parts of toys and childcare	0.00005 mass% of the plastic or rubber part	false	0.00
Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	All	0.1 mass% of article	false	0.00
Benzo[e]pyrene (BeP)	192-97-2	Rubber or plastic parts that come into direct,	0.0001 mass% of the plastic or rubber part	false	0.00
Benzo[e]pyrene (BeP)	192-97-2	Rubber or plastic parts of toys and childcare	0.00005 mass% of the plastic or rubber part	false	0.00
Benzo[ghi]perylene	191-24-2	All	0.1 mass% of article	false	0.00
Benzo[j]fluoranthene (BjFA)	205-82-3	Rubber or plastic parts that come into direct,	0.0001 mass% of the plastic or rubber part	false	0.00



Benzo[j]fluoranthene (BjFA)	205-82-3	Rubber or plastic parts of toys and childcare	0.00005 mass% of the plastic or rubber part	false	0.00
Benzo[k]fluoranthene	207-08-9	All	0.1 mass% of article	false	0.00
Benzo[k]fluoranthene (BkFA)	207-08-9	Rubber or plastic parts that come into direct,	0.0001 mass% of the plastic or rubber part	false	0.00
Benzo[k]fluoranthene (BkFA)	207-08-9	Rubber or plastic parts of toys and childcare	0.00005 mass% of the plastic or rubber part	false	0.00
Benzyl butyl phthalate (BBP)	85-68-7	All	0.1 mass% in homogenous material	false	0.00
Beryllium Oxide	1304-56-9	All	0.1 mass%	false	0.00
Bis (2-ethylhexyl)phthalate	117-81-7	All	0.1 mass% in homogenous material	false	0.00
Bis(2-methoxyethyl) ether	111-96-6	All	0.1 mass% of article	false	0.00
Bis(2-methoxyethyl) phthalate	117-82-8	All	0.1 mass% of article	false	0.00
Bis(pentabromophenyl) ether	1163-19-5	All	0.1 mass% of article	false	0.00
Bis(tributyltin) oxide (TBTO)	56-35-9	All	Intentionally added or 0.1 mass% of article	false	0.00
Boric acid	10043-35-3; 11113-50-1	All	0.1 mass% of article	false	0.00
Cadmium	7440-43-9	All	0.1 mass% of article	false	0.00
Cadmium hydroxide	21041-95-2	All	0.1 mass% of article	false	0.00
Cadmium oxide	1306-19-0	All	0.1 mass% of article	false	0.00
Cadmium sulphide	1306-23-6	All	0.1 mass% of article	false	0.00
Chrysen (CHR)	218-01-9	Rubber or plastic parts that come into direct,	0.0001 mass% of the plastic or rubber part	false	0.00
Chrysen (CHR)	218-01-9	Rubber or plastic parts of toys and childcare	0.00005 mass% of the plastic or rubber part	false	0.00
Chrysene	218-01-9	All	0.1 mass% of article	false	0.00
Cobalt dichloride	7646-79-9	All	0.1 mass% of article	false	0.00
Decamethylcyclopentasil oxane	541-02-6	All	0.1 mass% of article	false	0.00
Diarsenic pentoxide	1303-28-2	All	0.1 mass% of article	false	0.00
Diarsenic trioxide	1327-53-3	All	0.1 mass% of article	false	0.00
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	Rubber or plastic parts that come into direct,	0.0001 mass% of the plastic or rubber part	false	0.00
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	Rubber or plastic parts of toys and childcare	0.00005 mass% of the plastic or rubber part	false	0.00
Diboron trioxide	1303-86-2	All	0.1 mass% of article	false	0.00
Dibutyl phthalate (DBP)	84-74-2	All	0.1 mass% in homogenous material	false	0.00
Dibutyltin dichloride (DBTC)	683-18-1	All	0.1 mass% of article	false	0.00
Dicyclohexyl phthalate	84-61-7	All	0.1 mass% of article	false	0.00

	Diisobutyl phthalate	84-69-5	All	0.1 mass% in homogenous material	false	0.00
	Di-isodecyl phthalate (DIDP)	68515-49-1; 26761-40-0	All	Intentionally added	false	0.00
	Diisohexyl phthalate	71850-09-4	All	0.1 mass% of article	false	0.00
	Diisononyl phthalate (DINP)	28553-12-0; 68515-48-0	All	Intentionally added	false	0.00
	Diisopentyl phthalate	605-50-5	All	0.1 mass% of article	false	0.00
	Dimethylfumarate (DMF)	624-49-7	All	0.00001 mass% of the part	false	0.00
	Di-n-hexyl phthalate (DnHP)	84-75-3	All	Intentionally added or 0.1 mass% of article	false	0.00
	Dioxobis(stearato)trilead	12578-12-0	All	0.1 mass% of article	false	0.00
	Dipentyl phthalate (DPP)	131-18-0	All	0.1 mass% of article	false	0.00
	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diyl]bis(4-aminobenzoate)	573-58-0	All	0.1 mass% of article	false	0.00
	Disodium 4-amino-3-[[4'-[[2,4-diaminophenyl]oxy]phenyl]oxy]benzoate	1937-37-7	All	0.1 mass% of article	false	0.00
	Disodium octaborate	12008-41-2	All	0.1 mass% of article	false	0.00
	Dodecamethylcyclohexasiloxane	540-97-6	All	0.1 mass% of article	false	0.00
	Fatty acids, C16-18, lead salts	91031-62-8	All	0.1 mass% of article	false	0.00
	Fluoranthene	206-44-0	All	0.1 mass% of article	false	0.00
	Formaldehyde	50-00-0	Textiles	0.0075 mass % of textile	false	0.00
	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	All	0.1 mass% of article	false	0.00
	Lead	7439-92-1	All	0.1 mass% of article	false	0.00
	Lead chromate	7758-97-6	All	0.1 mass% of article	false	0.00
	Lead chromate molybdate sulphate red	12656-85-8	All	0.1 mass% of article	false	0.00
	Lead cyanamidate	20837-86-9	All	0.1 mass% of article	false	0.00
	Lead dinitrate	10099-74-8	All	0.1 mass% of article	false	0.00
	Lead oxide sulfate	12036-76-9	All	0.1 mass% of article	false	0.00
	Lead sulfochromate yellow (C.I. Pigment 17)	1344-37-2	All	0.1 mass% of article	false	0.00
	Lead titanium trioxide	12060-00-3	All	0.1 mass% of article	false	0.00
	Lead titanium zirconium oxide	12626-81-2	All	0.1 mass% of article	false	0.00
	N,N-dimethylformamide	68-12-2	All	0.1 mass% of article	false	0.00
	N-pentyl-isopentylphthalate	776297-69-9	All	0.1 mass% of article	false	0.00
	Octamethylcyclotetrasiloxane	556-67-2	All	0.1 mass% of article	false	0.00

Orange lead (lead tetroxide)	1314-41-6	All	0.1 mass% of article	false	0.00
Pentadecafluorooctanoic acid (PFOA)	335-67-1	All	0.1 mass% of article	false	0.00
Pentalead tetraoxide sulphate	12065-90-6	All	0.1 mass% of article	false	0.00
Pentazinc chromate octahydroxide	49663-84-5	All	0.1 mass% of article	false	0.00
Phenanthrene	85-01-8	All	0.1 mass% of article	false	0.00
Potassium hydroxyoctaoxodizincate	11103-86-9	All	0.1 mass% of article	false	0.00
Pyrene	129-00-0	All	0.1 mass% of article	false	0.00
Pyrochlore, antimony lead yellow	8012-00-8	All	0.1 mass% of article	false	0.00
Reaction mass of 2-ethylhexyl		All	0.1 mass% of article	false	0.00
Silicic acid (H <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ), barium salt (1:1).	68784-75-8	All	0.1 mass% of article	false	0.00
Strontium chromate	7789-06-2	All	0.1 mass% of article	false	0.00
Sulfurous acid, lead salt, dibasic	62229-08-7	All	0.1 mass% of article	false	0.00
Terphenyl, hydrogenated	61788-32-7	All	0.1 mass% of article	false	0.00
Tetraboron disodium heptaoxide, hydrate	12267-73-1	All	0.1 mass% of article	false	0.00
Tetralead trioxide sulphate	12202-17-4	All	0.1 mass% of article	false	0.00
Trilead dioxide phosphonate	12141-20-7	All	0.1 mass% of article	false	0.00
Tris(2-chloroethyl) phosphate	115-96-8	All	0.1 mass% of article	false	0.00
Trixylyl phosphate	25155-23-1	All	0.1 mass% of article	false	0.00