Material Data Declaration Sheet - v003

Schema Database Version: IEC 62474 X6.01 Substance Database Version: IEC 62474 D15.00



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Product(s)

Product Family Name:

Requester Item Number	Item Number *	Description	Effective Date *	Mass *	UoM*	Comment
	MA2485	MA2485	2018-08-10	0.21600	g	

Declaration		
LHPLA	This product is Low Halogen (Components): Applies only to brominated and chlorinated flame retardants (BFRs/CFRs) and PVC in the final product. The replacement of halogenated flame retardants may not be better for the environment. Intel Components as well as purchased components on the finished assembly meet the joint JEDEC/ECA JS-709B requirement.	True
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	True
PVC	This product does not contain PVC	True
SVHC	Product Contains REACh SVHC above .1% of article	False
RoHS.Compliant	Product Meets EU RoHS Directive 2 2011/65/EU Requirements	True

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 %	
MA2485	MA2485	1		100.0000

RoHS

Homogenous Materi					Reporting	Above	Substance Mass % of		
Name	Material Class ID	HM Mass %	Substance Group	Reportable Application	Threshold	Threshold? (T/F)	HM	Exemption	Comments
			Cadmium/Cadmium compounds	All excent natteries	0.01 mass% of total Cd in homogenous	false			
			Chromium (VI)		0.1 mass% of total	false			
			Compounds	All	Cr+6 in homogenous				
			Lead/Lead Compounds	All, except for: 1.	0.1 mass% of total Pb	false			
			Leady Lead Compounds	batteries, 2. surface	in homogenous	Tuise			
			Mercury/Mercury	All, except batteries	Intentionally Added	false			
			Compounds	All, except batteries	or 0.1 mass% of total	Idise			
			Polybrominated	All	0.1 mass% in	false			
			Biphenyls (PBBs)		homogenous material				
			Polybrominated	All	0.1 mass% in	false			
			Diphenylethers (PBDEs)		homogenous material	Tuise			

Low Halogen

Homogenous Mat	terial				Reporting	Above	Substance Mass % of	
Name	Material Class ID	HM Mass %	Substance Group	Reportable Application	Threshold	Threshold? (T/F)	HM	Comments
			Brominated flame	Printed wiring board	0.09 mass% total	false		
			retardants (other than	laminate	bromine content in	laise		
			Brominated flame	Plastic materials except	0.1 mass% of	false		
			retardants (other than	printed wiring board	hromine in plastic			
			Chlorinated Flame	Plastic materials except	0.1 mass% chlorine in	falco		
			Retardants (CFR)	printed wiring board	plastic materials	laise		
			Chlorinated Flame	Printed Wiring Board	0.09 mass% total	false		
			Retardants (CFR)	(PWB) Laminates	chlorine content in	Idise		
	M-012		PVC			false		

Other Declarable Substances

Substance Group	Substance	CAS #	Reportable Application	Reporting Threshold	Above Threshold? (T/F)	Substance Mass (% of Article)	Comments
4-Nonylphenol, branched and linear, ethoxylated				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		
Dioctyltin (DOT) compounds			(a) textile and leather articles intended to come	0.1 mass% of tin in the part	false		

	1		1	1	1		
Disodium tetraborates			All	0.1 mass% of article	false		
Dodecachloropentacyclo			All	0.1 mass% of article	false		
[12.2.1.16,9.02,13.05,10]							
Fluorinated Greenhouse Gases (PFC, SF6, HFC)			All	Intentionally Added	false		
Hexabromocyclododecan				Intentionally added or			
e (HBCDD)			All	0.01 mass% of article	false		
Hexahydromethylphthali							
c 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			D	Intentionally added or	c .		
Compounds			Batteries	0.0001 mass% of battery	false		
Nickel/Nickel			All, where prolonged skin		e .		
Compounds			contact is expected	Intentionally Added	false		
Nonadecafluorodecanoic acid (PFDA) and its			All	0.1 mass% of article	false		
Ozone Depleting			All	Intentionally Added	false		
Substances (CFC, Halon,				,	10150		
Perchlorates			All	6 x 10 ^-7 mass% of battery or product part	false		
Perfluorohexane-1-sulph			All	0.1 mass% of article	false		
onic acid and its salts							
Perfluorononan-1-oic-aci d and its sodium and			All	0.1 mass% of article	false		
Polychlorinated Biphenyls (PCBs) and			All	Intentionally added	false		
Polychlorinated			All	Intentionally added	false		
Naphthalenes (PCNs)			All		Idise		
Radioactive substances			All	Intentionally added	false		
Tri-substituted organostannic			All	Intentionally added or 0.1 mass% of tin in the part	false		
Zirconia Aluminosilicate							
Refractory Ceramic			All	0.1 mass% of article	false		
	[Phthalato(2-)]dioxotrilea	69011-06-9	Heat stabilizer for plastics, for example for	0.1 mass% of article	false	0.0000	
	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters	68515-51-5, 68648-93-1	Plasticisers, lubricants, adhesives, coatings,	0.1 mass% of article	false	0.0000	
	1,2-Benzenedicarboxylic acid. di-C6-8-branched	71888-89-6	Plasticizer, dye, pigment,	0.1 mass% of article	false	0.0000	
	1,2-Benzenedicarboxylic	68515-42-4	paint, ink, adhesive, Plasticizer, dye, pigment,	0.1 mass% of article	false	0.0000	
	acid, di-C7-11-branched 1,2-Benzenedicarboxylic		paint, ink, adhesive, Used as a plasticizer for				
	acid. dihexvl ester.	68515-50-4	certain plastics and	0.1 mass% of article	false	0.0000	
	1,2-Benzenedicarboxylic	04777 06 0	Plasticizer in plastic	0.1	falaa	0.0000	
	acid, dipentylester,	84777-06-0	materials in specialist	0.1 mass% of article	false	0.0000	
	1,2-bis(2-methoxyethoxy)	112-49-2	Solvent may be used in	0.1 mass% of article	false	0.0000	
	ethane (TEGDME;	112-43-2	battery electrolytes for	0.1 mass/0 01 at title	iuise	0.0000	
	1,2-Diethoxyethane	629-14-1	Solvent used in electrolytes for lithium	0.1 mass% of article	false	0.0000	
	1,2-dimethoxyethane;	110-71-4	Solvent used in battery	0.1 mass% of article	false	0.0000	
	ethylene glycol dimethyl	110-/1-4	electrolytes for lithium	0.1 mass/0 01 at title	iuise	0.0000	
	1,3-propanesultone	1120-71-4	Electrolyte fluid of rechargeable lithium ion	0.1 mass% of article	false	0.0000	
	2-(2H-benzotriazol-2-yl)-4 -(tert-butyl)-6-(sec-butyl)	36437-37-3	UV stabilizer	0.1 mass% of article	false	0.0000	
	2-(2H-benzotriazol-2-yl)-4	25973-55-1	UV stabilizer	0.1 mass% of article	false	0.0000	
L	,6-ditertpentylphenol		1	I	I		

2,4-di-tert-butyl-6-(5-chlo robenzotriazol-2-vl)pheno	3864-99-1	UV stabilizer	0.1 mass% of article	false	0.0000	
2-benzotriazol-2-yl-4,6-di-	3846-71-7	UV-stabilizer in	Intentionally added or 0.1	false	0.0000	
tert-butylphenol (UV-320) 2-ethylhexyl		adhesives, paints, PVC stabilizer	mass% of article 0.1 mass% of article	f-1	0.0000	
 10-ethyl-4,4-dioctyl-7-oxo	15571-58-1		0.1 mass% of article	false	0.0000	
4-(1,1,3,3-tetramethylbut yl)phenol	140-66-9	Unreacted process chemical	0.1 mass% of article	false	0.0000	
4,4'-isopropylidenediphen	80-05-7	Antioxidant for	Intentionally added or 0.1	false	0.0000	
ol	<u> </u>	plasticizer and PVC, ink, Used as yellow pigment	mass% of article	6 -1	0.0000	
4-Aminoazobenzene	60-09-3	and in inks, including inks	0.1 mass% of article	false	0.0000	
Ammonium pentadecafluorooctanoat	3825-26-1	APFO is used as an emulsion stabilizer to	0.1 mass% of article	false	0.0000	
Benz[a]anthracene	56-55-3;	Impurities in carbon	0.1 mass% of article	false	0.0000	
Benzenamine, N-phenyl-,	1718-53-2	black, which is used as Lubricating agent in				
reaction products with	68921-45-9	motors, storage drives;	Intentionally added	false	0.0000	
Benzo[a]anthracene	56-55-3	Impurities in carbon black, which is used as	0.0001 mass% of the plastic or rubber part	false	0.0000	
 Benzo[a]anthracene	56-55-3	Impurities in carbon	0.00005 mass% of the	false	0.0000	
benzolujuntinucene		black, which is used as Impurities in carbon	plastic or rubber part 0.0001 mass% of the			
Benzo[a]pyrene	50-32-8	black, which is used as	plastic or rubber part	false	0.0000	
Benzo[a]pyrene	50-32-8	Impurities in carbon black, which is used as	0.00005 mass% of the plastic or rubber part	false	0.0000	
Benzo[b]fluoranthene	205-99-2	Impurities in carbon	0.0001 mass% of the	false	0.0000	
Benzolbjindoranthene	203-99-2	black, which is used as Impurities in carbon	plastic or rubber part 0.00005 mass% of the		0.0000	
Benzo[b]fluoranthene	205-99-2	black, which is used as	plastic or rubber part	false	0.0000	
Benzo[def]chrysene	50-32-8	Impurities in carbon black. which is used as	0.1 mass% of article	false	0.0000	
 Benzo[e]pyrene	192-97-2	Impurities in carbon	0.0001 mass% of the	false	0.0000	
		black, which is used as Impurities in carbon	plastic or rubber part 0.00005 mass% of the			
Benzo[e]pyrene	192-97-2	black, which is used as	plastic or rubber part	false	0.0000	
Benzo[j]fluoranthene	205-82-3	Impurities in carbon black, which is used as	0.0001 mass% of the plastic or rubber part	false	0.0000	
Benzo[j]fluoranthene	205-82-3	Impurities in carbon	0.00005 mass% of the	false	0.0000	
		black, which is used as Impurities in carbon	plastic or rubber part 0.0001 mass% of the			
Benzo[k]fluoranthene	207-08-9	black, which is used as	plastic or rubber part	false	0.0000	
Benzo[k]fluoranthene	207-08-9	Impurities in carbon black, which is used as	0.00005 mass% of the plastic or rubber part	false	0.0000	
Benzyl butyl phthalate	85-68-7	Plasticizer, dye, pigment,	0.1 mass% in	false	0.0000	
(BBP)		paint, ink, adhesive,	homogenous material			
Beryllium Oxide	1304-56-9	Ceramics	0.1 mass%	false	0.0000	
 Bis (2-ethylhexyl)phthalate	117-81-7	Plasticizer, dye, pigment, paint, ink, adhesive,	0.1 mass% in homogenous material	false	0.0000	
Bis(2-methoxyethyl) ether	111-96-6	Electrolyte in lithium batteries	0.1 mass% of article	false	0.0000	
Bis(2-methoxyethyl)	117-82-8	Plasticizer	0.1 mass% of article	false	0.0000	
Bis(pentabromophenyl) ether	1163-19-5	Flame retardant	0.1 mass% of article	false	0.0000	
Bis(tributyltin) oxide	56-35-9	Antiseptic, antifungal	Intentionally added or 0.1	false	0.0000	
(TBTO) Boric Acid	10043-35-3,	agent, paint, pigment, In wood veneers/	mass% of article 0.1 mass% of article	false	0.0000	
	11113-50-1	pressed wooden panels Pigments, anti-corrosion				
Cadmium	7440-43-9	surface treatments,	0.1 mass% of article	false	0.0000	

Cadmium hydroxide	21041-95-2	It is generated in the anodes of	0.1 mass% of article	false	0.0000	
Cadmium oxide	1306-19-0	Relay contact; photodiode voltaic cell,	0.1 mass% of article	false	0.0000	
Cadmium sulphide	1306-23-6	Used in photo-resistors, solar cells and	0.1 mass% of article	false	0.0000	
Chrysen	218-01-9	Impurities in carbon black, which is used as	0.0001 mass% of the plastic or rubber part	false	0.0000	
Chrysen	218-01-9	Impurities in carbon black, which is used as	0.00005 mass% of the plastic or rubber part	false	0.0000	
Chrysene	218-01-9; 1719-03-5	Impurities in carbon black, which is used as	0.1 mass% of article	false	0.0000	
Cobalt dichloride	7646-79-9	Pneumatic panels to indicate water	0.1 mass% of article	false	0.0000	
Diarsenic pentoxide	1303-28-2	Additive in wood, metal, glass and plastics	0.1 mass% of article	false	0.0000	
Diarsenic trioxide	1327-53-3	Additive in wood, metal, glass and plastics	0.1 mass% of article	false	0.0000	
Dibenzo[a,h]anthracene	53-70-3	Impurities in carbon black, which is used as	0.0001 mass% of the plastic or rubber part	false	0.0000	
Dibenzo[a,h]anthracene	53-70-3	Impurities in carbon black, which is used as	0.00005 mass% of the plastic or rubber part	false	0.0000	
Diboron trioxide	1303-86-2	Found in wood veneers, glass/fiberoptics and	0.1 mass% of article	false	0.0000	
Dibutyl phthalate (DBP)	84-74-2	Plasticizer, dye, pigment, paint, ink, adhesive,	0.1 mass% in homogenous material	false	0.0000	
Dibutyltin dichloride (DBTC)	683-18-1	Ingredient in some paint thinner and as heat	0.1 mass% of article	false	0.0000	
Diisobutyl phthalate	84-69-5	Plasticizer, dye, pigment, paint, ink, adhesive,	0.1 mass% in homogenous material	false	0.0000	
Di-isodecyl phthalate (DIDP)	68515-49-1, 26761-40-0	Plasticizer, dye, pigment, paint, ink,	Intentionally added	false	0.0000	
Diisononyl phthalate (DINP)	28553-12-0, 68515-48-0	Used as a plasticizer for PVC	Intentionally added	false	0.0000	
Diisopentylphthalate	605-50-5	Plasticizer in plastic materials in specialist	0.1 mass% of article	false	0.0000	
Dimethyl Fumarate (DMF)	624-49-7	Biocide, mold prevention treatment of electronic	0.00001 mass% of the part	false	0.0000	
Di-n-hexyl Phthalate (DnHP)	84-75-3	Plasticizer, dye, pigment, paint, ink, adhesive,	Intentionally added or 0.1 mass% of article	false	0.0000	
Dioxobis(stearato)trilead	12578-12-0	Heat stabilizer for plastics, for example for	0.1 mass% of article	false	0.0000	
Dipentyl phthalate (DPP)	131-18-0	Plasticizer in PVC and nitrocellulose resin and	0.1 mass% of article	false	0.0000	
Disodium 3,3'-[[1,1'-biphenyl]-4,4'-d	573-58-0	Dye for textiles and paper	0.1 mass% of article	false	0.0000	
Disodium 4-amino-3-[[4'-[(2,4-diami	1937-37-7	Used in ink for printers	0.1 mass% of article	false	0.0000	
Fatty acids, C16-18, lead salts	91031-62-8	Heat stabilizer for plastics, for example for	0.1 mass% of article	false	0.0000	
Formaldehyde	50-00-0	Textiles	0.0075 mass % of textile	false	0.0000	
Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	used as a catalyst in some acrylic adhesive	0.1 mass% of article	false	0.0000	
Lead chromate	7758-97-6	Colorant in plastics; Colorant in paint	0.1 mass% of article	false	0.0000	
Lead chromate molybdate sulphate red (C.I. Pigment	12656-85-8	Colorant in plastics; Colorant in red paint	0.1 mass% of article	false	0.0000	
Lead cyanamidate	20837-86-9	Used in anticorrosion coatings e.g. steel articles	0.1 mass% of article	false	0.0000	
Lead dinitrate	10099-74-8	Heat stabilizer in nylon and polyesters, also used	0.1 mass% of article	false	0.0000	

	Lead oxide sulfate	12036-76-9	Heat stabilizer for PVC used for wiring and	0.1 mass% of article	false	0.0000	
	Lead sulfochromate yellow (C.I. Pigment	1344-37-2	Colorant in plastics; Colorant in yellow paint	0.1 mass% of article	false	0.0000	
	Lead titanium trioxide	12060-00-3	In piezoelectric components, ultrasound	0.1 mass% of article	false	0.0000	
	Lead titanium zirconium oxide	12626-81-2	In piezoelectric components, ultrasound	0.1 mass% of article	false	0.0000	
	N,N-dimethylformamide	68-12-2	Used as electrolyte in electrolytic capacitors	0.1 mass% of article	false	0.0000	
	N-pentyl-isopentylphthala te	776297-69-9	Plasticizer in plastic materials in specialist	0.1 mass% of article	false	0.0000	
	Orange lead (lead tetroxide)	1314-41-6	Used in rust-proof primer paints	0.1 mass% of article	false	0.0000	
	Pentadecafluorooctanoic acid (PFOA)	335-67-1	PFOA is used as an emulsion stabilizer to	0.1 mass% of article	false	0.0000	
	Pentalead tetraoxide sulphate	12065-90-6	Heat stabilizer for plastics; for example,	0.1 mass% of article	false	0.0000	
	Pentazinc chromate octahydroxide	49663-84-5	Colorant	0.1 mass% of article	false	0.0000	
	Potassium hvdroxvoctaoxodizincated	11103-86-9	Paint, anti-corrosion	0.1 mass% of article	false	0.0000	
	Durachlara antimany load	8012-00-8	Used as yellow pigment for coloring plastics and	0.1 mass% of article	false	0.0000	
	reaction mass of 2-ethylhexyl		PVC stabilizer	0.1 mass% of article	false	0.0000	
	Silicic acid (H2Si2O5), barium salt (1:1).	68784-75-8	Used in UV emitting light bulbs and lamps	0.1 mass% of article	false	0.0000	
	Strontium chromate	7789-06-2	Pigment; corrosion resistant coating	0.1 mass% of article	false	0.0000	
	Sulfurous acid, lead salt, dibasic	62229-08-7	Heat stabilizer for PVC, for example for wiring	0.1 mass% of article	false	0.0000	
	Tetralead trioxide sulphate	12202-17-4	Heat stabilizer for PVC, for example for wiring	0.1 mass% of article	false	0.0000	
	Trilead dioxide	12141-20-7	Heat stabilizer for PVC, for example for wiring	0.1 mass% of article	false	0.0000	
•	Tris(2-chloroethyl)phosph ate	115-96-8	Flame retardant	0.1 mass% of article	false	0.0000	
	Trixylyl phosphate	25155-23-1	Used as a plasticizer for vinyl resin, cellulose	0.1 mass% of article	false	0.0000	