

Material Data Declaration Sheet - v003

Schema Database Version: IEC 62474 X6.01

Substance Database Version: IEC 62474 D12.00



Supplier Information

Company Name *	Intel Corporation
Response Document ID	22709
Company Unique ID	047897855
Unique ID Authority	Brad and Dunstreet
Response Date *	2017-05-19

Contact Name *	Khalily, Nima
Contact Title *	Intel Product Ecology
Contact Phone *	1-800-628-8686
Contact Email *	productecology@intel.com

Supplier Comments <http://qdms.intel.com> - Intel certifies that it gathered the provided information and such information is true and correct to the best of its knowledge and belief, as of the date that Intel completes this form. Intel acknowledges that Customer will rely on this certification in determining the compliance of its products. Customer acknowledges that Intel may have relied on information provided by others in completing this form, and that Intel may not have independently verified such information. However, in situations where Intel has not independently verified information provided by others, Intel agrees that, at a minimum, its suppliers have provided certifications regarding their contributions to the part(s), and those certifications are at least as comprehensive as the certification in this paragraph. If the Customer and the Intel enter into a written agreement with respect to the identified part(s), the terms and conditions of that agreement, including any warranty rights and/or remedies provided as part of that agreement, will be the sole and exclusive source of the Intel's liability and the Customer's remedies for issues that arise regarding information the Intel provides in this form. In the absence of such written agreement, the warranty rights and/or remedies of Intel's Standard Terms and Conditions of Sale applicable to such part shall apply.

Product(s)

Product Family Name:

Requester Item						
Number	Item Number *	Description	Effective Date *	Mass *	UoM*	Comment
	I357T4OCPG1P5	I357T4OCPG1P5	2017-05-19	77.01	g	

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	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 Requirements	True

Signature

Intel Product
Ecology

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

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
			Cadmium/Cadmium compounds	All, except batteries	0.01 mass% of total Cr	false			
			Chromium (VI) Compounds	All	0.1 mass% of total Cr	false			
			Lead/Lead Compounds	All, except for batteries,	0.1 mass% of total Pb	false			
			Mercury/Mercury Compounds	All, except batteries	Intentionally Added or	false			
			Polybrominated Biphenyls	All	0.1 mass% in homoge	false			
			Polybrominated Diphenyls	All	0.1 mass% in homoge	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	Printed wiring board laminae	0.09 mass% total bromine	false		
			Brominated flame retardants	Plastic materials except pipes	0.1 mass% of bromine	false		
			Chlorinated Flame Retardants	Plastic materials except pipes	0.1 mass% chlorine in	false		
			Chlorinated Flame Retardants	Printed Wiring Board (PWB)	0.09 mass% total chlorine	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
4-Nonylphenol, branched and linear, ethoxylated			All	0.1 mass% of article	false		
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)			All	Intentionally added or	0.1	false	
Aluminosilicate Refractory Ceramic Fibres			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 paste	false		
Diocetyl tin (DOT) compounds			(a) textile and leather articles	0.1 mass% of tin in the paste	false		
Disodium tetraborates			All	0.1 mass% of article	false		
Fluorinated Greenhouse Gases (PFC, SF6, HFC)			All	Intentionally Added	false		
Hexabromocyclododecane (HBCDD) and all major diastereoisomers			All	Intentionally added or	0.1	false	
Hexahydrodipthalic anhydride			All	0.1 mass% of article	false		
Lead/Lead Compounds			Consumer products designed for	0.01 mass%	false		
Lead/Lead Compounds			Batteries	0.004 mass% of battery	false		
Mercury/Mercury Compounds			Batteries	Intentionally added or	0.0	false	
Ozone Depleting Substances (CFC, Halon, HBFC, HCFC & others)			All	Intentionally Added	false		
Perchlorates			All	6 x 10 ⁻⁷ mass% of battery	false		
Perfluorononanoic acid and its sodium and ammonium salts			All	0.1 mass% of article	false		
Polychlorinated Biphenyls (PCBs) and specific substitutes			All	Intentionally added	false		
Polychlorinated Naphthalenes (PCNs)			All	Intentionally added	false		
Radioactive substances			All	Intentionally added	false		
Tri-substituted organostannic compounds			All	Intentionally added or	0.1	false	
Zirconia Aluminosilicate Refractory Ceramic Fibres			All	0.1 mass% of article	false		
	[Phthalato(2-)]dioxotriolein	69011-06-9	Heat stabilizer for plastic	0.1 mass% of article	false		
	1,2-benzenedicarboxylic acid	68515-51-5, 686	Plasticisers, lubricants, adhesives	0.1 mass% of article	false		
	1,2-Benzenedicarboxylic acid	71888-89-6	Plasticizer, dye, pigment	0.1 mass% of article	false		
	1,2-Benzenedicarboxylic acid	68515-42-4	Plasticizer, dye, pigment	0.1 mass% of article	false		
	1,2-Benzenedicarboxylic acid	68515-50-4	Used as a plasticizer for	0.1 mass% of article	false		

1,2-Benzenedicarboxylic acid	84777-06-0	Plasticizer in plastic mate	0.1 mass% of article	false
1,2-bis(2-methoxyethoxy)	112-49-2	Solvent may be used in br	0.1 mass% of article	false
1,2-Diethoxyethane	629-14-1	Solvent used in electrolyt	0.1 mass% of article	false
1,2-dimethoxyethane; eth	110-71-4	Solvent used in battery el	0.1 mass% of article	false
1,3-propanesultone	1120-71-4	Electrolyte fluid of rechar	0.1 mass% of article	false
2-(2H-benzotriazol-2-yl)-4	36437-37-3	UV stabilizer	0.1 mass% of article	false
2-(2H-benzotriazol-2-yl)-4,	25973-55-1	UV stabilizer	0.1 mass% of article	false
2,4-di-tert-butyl-6-(5-chlor	3864-99-1	UV stabilizer	0.1 mass% of article	false
2-benzotriazol-2-yl-4,6-di-	3846-71-7	UV-stabilizer in adhesives	Intentionally added or 0.1	false
2-ethylhexyl 10-ethyl-4,4-t	15571-58-1	PVC stabilizer	0.1 mass% of article	false
4-(1,1,3,3-tetramethylbutyl	140-66-9	Unreacted process chemi	0.1 mass% of article	false
4-Aminoazobenzene	60-09-3	Used as yellow pigment a	0.1 mass% of article	false
Ammonium pentadecafluor	3825-26-1	APFO is used as an emuls	0.1 mass% of article	false
Benzenamine, N-phenyl-,	68921-45-9	Lubricating agent in motc	Intentionally added	false
Benzo[a]anthracene	56-55-3	Impurities in carbon black	0.0001 mass% of the plas	false
Benzo[a]anthracene	56-55-3	Impurities in carbon black	0.00005 mass% of the pla	false
Benzo[a]pyrene	50-32-8	Impurities in carbon black	0.00005 mass% of the pla	false
Benzo[a]pyrene	50-32-8	Impurities in carbon black	0.0001 mass% of the plas	false
Benzo[b]fluoranthene	205-99-2	Impurities in carbon black	0.0001 mass% of the plas	false
Benzo[b]fluoranthene	205-99-2	Impurities in carbon black	0.00005 mass% of the pla	false
Benzo[def]chrysene	50-32-8	Impurities in carbon black	0.1 mass% of article	false
Benzo[e]pyrene	192-97-2	Impurities in carbon black	0.0001 mass% of the plas	false
Benzo[e]pyrene	192-97-2	Impurities in carbon black	0.00005 mass% of the pla	false
Benzo[j]fluoranthene	205-82-3	Impurities in carbon black	0.0001 mass% of the plas	false
Benzo[j]fluoranthene	205-82-3	Impurities in carbon black	0.00005 mass% of the pla	false
Benzo[k]fluoranthene	207-08-9	Impurities in carbon black	0.0001 mass% of the plas	false
Benzo[k]fluoranthene	207-08-9	Impurities in carbon black	0.00005 mass% of the pla	false
Benzyl butyl phthalate (BB	85-68-7	Plasticizer, dye, pigment,	0.1 mass% in homogenou	false
Beryllium Oxide	1304-56-9	Ceramics	0.1 mass%	false
Bis(2-ethylhexyl)phthalat	117-81-7	Plasticizer, dye, pigment,	0.1 mass% in homogenou	false
Bis(2-methoxyethyl) ether	111-96-6	Electrolyte in lithium batt	0.1 mass% of article	false
Bis(2-methoxyethyl) phth	117-82-8	Plasticizer	0.1 mass% of article	false
Bis(pentabromophenyl) et	1163-19-5	Flame retardant	0.1 mass% of article	false
Bis(tributyltin) oxide (TBT	56-35-9	Antiseptic, antifungal age	Intentionally added or 0.1	false
Boric Acid	10043-35-3, 111	In wood veneers/ pressec	0.1 mass% of article	false
Cadmium	7440-43-9	Pigments, anti-corrosion	0.1 mass% of article	false
Cadmium oxide	1306-19-0	Relay contact; photodi	0.1 mass% of article	false
Cadmium sulphide	1306-23-6	Used in photo-resistors, s	0.1 mass% of article	false
Chrysen	218-01-9	Impurities in carbon black	0.0001 mass% of the plas	false
Chrysen	218-01-9	Impurities in carbon black	0.00005 mass% of the pla	false
Cobalt dichloride	7646-79-9	Pneumatic panels to indic	0.1 mass% of article	false
Diarsenic pentoxide	1303-28-2	Additive in wood, metal,	0.1 mass% of article	false
Diarsenic trioxide	1327-53-3	Additive in wood, metal,	0.1 mass% of article	false
Dibenzo[a,h]anthracene	53-70-3	Impurities in carbon black	0.0001 mass% of the plas	false
Dibenzo[a,h]anthracene	53-70-3	Impurities in carbon black	0.00005 mass% of the pla	false
Diboron trioxide	1303-86-2	Found in wood veneers, €	0.1 mass% of article	false
Dibutyl phthalate (DBP)	84-74-2	Plasticizer, dye, pigment,	0.1 mass% in homogenou	false
Dibutyltin dichloride (DBT	683-18-1	Ingredient in some paint	0.1 mass% of article	false
Diisobutyl phthalate	84-69-5	Plasticizer, dye, pigment,	0.1 mass% in homogenou	false
Di-isodecyl phthalate (DID	68515-49-1, 267	Plasticizer, dye, pigment,	Intentionally added	false
Diisononyl phthalate (DIN	28553-12-0, 685	Used as a plasticizer for P	Intentionally added	false
Diisopentylphthalate	605-50-5	Plasticizer in plastic mate	0.1 mass% of article	false
Dimethyl Fumarate (DMF)	624-49-7	Biocide, mold prevention	0.00001 mass% of the pa	false
Di-n-hexyl Phthalate (DnH	84-75-3	Plasticizer, dye, pigment,	Intentionally added or 0.1	false
Dioxobis(stearato)trilead	12578-12-0	Heat stabilizer for plastic	0.1 mass% of article	false
Dipentyl phthalate (DPP)	131-18-0	Plasticizer in PVC and nitr	0.1 mass% of article	false
Disodium 3,3'-[1,1'-biphe	573-58-0	Dye for textiles and paper	0.1 mass% of article	false

Disodium 4-amino-3-[[4'-[1937-37-7	Used in ink for printers	0.1 mass% of article	false
Fatty acids, C16-18, lead s 91031-62-8	Heat stabilizer for plastic:	0.1 mass% of article	false
Formaldehyde 50-00-0	Textiles	0.0075 mass % of textile	false
Imidazolidine-2-thione; (2 96-45-7	used as a catalyst in some	0.1 mass% of article	false
Lead chromate 7758-97-6	Colorant in plastics; Color	0.1 mass% of article	false
Lead chromate molybdate 12656-85-8	Colorant in plastics; Color	0.1 mass% of article	false
Lead cyanamidate 20837-86-6	Used in anticorrosion coa	0.1 mass% of article	false
Lead dinitrate 10099-74-8	Heat stabilizer in nylon ar	0.1 mass% of article	false
Lead oxide sulfate 12036-76-9	Heat stabilizer for PVC us	0.1 mass% of article	false
Lead sulfochromate yellow 1344-37-2	Colorant in plastics; Color	0.1 mass% of article	false
Lead titanium trioxide 12060-00-3	In piezoelectric compone	0.1 mass% of article	false
Lead titanium zirconium o 12626-81-2	In piezoelectric compone	0.1 mass% of article	false
N,N-dimethylformamide 68-12-2	Used as electrolyte in ele	0.1 mass% of article	false
Nickel 7440-02-0	Stainless steel, plating; Ex	Intentionally Added	false
N-pentyl-isopentylphthala 776297-69-9	Plasticizer in plastic mate	0.1 mass% of article	false
Orange lead (lead tetroxid 1314-41-6	Used in rust-proof primer	0.1 mass% of article	false
Pentadecafluorooctanoic ;335-67-1	PFOA is used as an emuls	0.1 mass% of article	false
Pentalead tetraoxide sulpl 12065-90-6	Heat stabilizer for plastic:	0.1 mass% of article	false
Pentazinc chromate octah 49663-84-5	Colorant	0.1 mass% of article	false
Potassium hydroxyoctaoxi 11103-86-9	Paint, anti-corrosion	0.1 mass% of article	false
Pyrochlore, antimony lead 8012-00-8	Used as yellow pigment fi	0.1 mass% of article	false
reaction mass of 2-ethylhexyl 10-ethyl-4,4-	PVC stabilizer	0.1 mass% of article	false
Silicic acid (H2Si2O5), bari 68784-75-8	Used in UV emitting light	0.1 mass% of article	false
Strontium chromate 7789-06-2	Pigment; corrosion resist:	0.1 mass% of article	false
Sulfurous acid, lead salt, d 62229-08-7	Heat stabilizer for PVC, fo	0.1 mass% of article	false
Tetralead trioxide sulphat 12202-17-4	Heat stabilizer for PVC, fo	0.1 mass% of article	false
Trilead dioxide phosphonε 12141-20-7	Heat stabilizer for PVC, fo	0.1 mass% of article	false
Tris(2-chloroethyl)phosph 115-96-8	Flame retardant	0.1 mass% of article	false
Trixylyl phosphate 25155-23-1	Used as a plasticizer for v	0.1 mass% of article	false