

Material Data Declaration Sheet - v003

Schema Database Version: IEC 62474 X6.01
Substance Database Version: IEC 62474 D12.00



Supplier Information

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Product(s)

Product Family Name:

Requester Item						
Number	Item Number *	Description	Effective Date *	Mass *	UoM*	Comment
	A1USHRTRAIL	A1USHRTRAIL	2017-03-31	3000.0	g	

Product Part(s)

ID*	Description	Effective Date*	Units*	% of Product	
				Mass	Comment
CHASSIS-RAIL	CHASSIS-RAIL	2017-03-31	2	50.00	
Other Items 1	Other Items	2017-03-31	1	0.00	

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
PVC	This product does not contain PVC	True
SVHC	Product Contains REACH SVHC above .1% of article	False
RoHS.Exempt	Product meets EU ROHS Requirements by application of the Selected exemptions	True

Exemptions

EL2011/534/EU	Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0,35 % lead by weight	6(a)
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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 %
CHASSIS-RAIL	CHASSIS-RAIL	2	50.00

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
12L14	M-001	0.250	Lead/Lead Compounds	All, except for batteries,	0.1 mass% of total Pb	true	0.350	6(a)	
			Cadmium/Cadmium compounds	All, except batteries	0.01 mass% of total Cd	false			
			Chromium (VI) Compounds	All	0.1 mass% of total Cr	false			
			Mercury/Mercury Compounds	All, except batteries	Intentionally Added	false			
			Polybrominated Biphenyls	All	0.1 mass% in homogen	false			
			Polybrominated Diphenyls	All	0.1 mass% in homogen	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 laminates	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 flame	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 mass%	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 part	false		
Diocetyl tin (DOT) compounds			(a) textile and leather articles	0.1 mass% of tin in the part	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 mass%	false		
Hexahydromethylphthalic anhydride			All	0.1 mass% of article	false		
Lead/Lead Compounds			Consumer products design	0.01 mass%	false		
Lead/Lead Compounds			Batteries	0.004 mass% of battery	false		
Mercury/Mercury Compounds			Batteries	Intentionally added or 0.001 mass%	false		
Ozone Depleting Substances (CFC, Halon, HBFC, HCFC & others)			All	Intentionally Added	false		
Perchlorates			All	6 x 10 ⁻⁷ mass% of battery	false		
Perfluorononane-1-oic-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 mass%	false		
Zirconia Aluminosilicate Refractory Ceramic Fibres			All	0.1 mass% of article	false		
	[Phthalato(2-)]dioxotriethylac	69011-06-9	All	0.1 mass% of article	false		
	1,2-benzenedicarboxylic acid	68515-51-5, 686	All	0.1 mass% of article	false		
	1,2-Benzenedicarboxylic acid	71888-89-6	All	0.1 mass% of article	false		

1,2-Benzenedicarboxylic a	68515-42-4	All	0.1 mass% of article	false
1,2-Benzenedicarboxylic a	68515-50-4	All	0.1 mass% of article	false
1,2-Benzenedicarboxylic a	84777-06-0	All	0.1 mass% of article	false
1,2-bis(2-methoxyethoxy)	112-49-2	All	0.1 mass% of article	false
1,2-Diethoxyethane	629-14-1	All	0.1 mass% of article	false
1,2-dimethoxyethane; eth	110-71-4	All	0.1 mass% of article	false
1,3-propanesultone	1120-71-4	All	0.1 mass% of article	false
2-(2H-benzotriazol-2-yl)-4	36437-37-3	All	0.1 mass% of article	false
2-(2H-benzotriazol-2-yl)-4,	25973-55-1	All	0.1 mass% of article	false
2,4-di-tert-butyl-6-(5-chloro	3864-99-1	All	0.1 mass% of article	false
2-benzotriazol-2-yl-4,6-di-	3846-71-7	All	Intentionally added or 0.1	false
2-ethylhexyl 10-ethyl-4,4-i	15571-58-1	All	0.1 mass% of article	false
4-(1,1,3,3-tetramethylbutyl)	140-66-9	All	0.1 mass% of article	false
4-Aminoazobenzene	60-09-3	All	0.1 mass% of article	false
Ammonium pentadecafluor	3825-26-1	All	0.1 mass% of article	false
Benzenamine, N-phenyl-, i	68921-45-9	All	Intentionally added	false
Benzo[a]anthracene	56-55-3	Rubber or plastic parts th	0.0001 mass% of the plas	false
Benzo[a]anthracene	56-55-3	Rubber or plastic parts of	0.00005 mass% of the pla	false
Benzo[a]pyrene	50-32-8	Rubber or plastic parts th	0.0001 mass% of the plas	false
Benzo[a]pyrene	50-32-8	Rubber or plastic parts of	0.00005 mass% of the pla	false
Benzo[b]fluoranthene	205-99-2	Rubber or plastic parts th	0.0001 mass% of the plas	false
Benzo[b]fluoranthene	205-99-2	Rubber or plastic parts of	0.00005 mass% of the pla	false
Benzo[def]chrysene	50-32-8	All	0.1 mass% of article	false
Benzo[e]pyrene	192-97-2	Rubber or plastic parts th	0.0001 mass% of the plas	false
Benzo[e]pyrene	192-97-2	Rubber or plastic parts of	0.00005 mass% of the pla	false
Benzo[j]fluoranthene	205-82-3	Rubber or plastic parts th	0.0001 mass% of the plas	false
Benzo[j]fluoranthene	205-82-3	Rubber or plastic parts of	0.00005 mass% of the pla	false
Benzo[k]fluoranthene	207-08-9	Rubber or plastic parts th	0.0001 mass% of the plas	false
Benzo[k]fluoranthene	207-08-9	Rubber or plastic parts of	0.00005 mass% of the pla	false
Benzyl butyl phthalate (BB	85-68-7	All	0.1 mass% in homogenou	false
Beryllium Oxide	1304-56-9	All	0.1 mass%	false
Bis(2-ethylhexyl)phthalat	117-81-7	All	0.1 mass% in homogenou	false
Bis(2-methoxyethyl) ether	111-96-6	All	0.1 mass% of article	false
Bis(2-methoxyethyl) phthi	117-82-8	All	0.1 mass% of article	false
Bis(pentabromophenyl) et	1163-19-5	All	0.1 mass% of article	false
Bis(tributyltin) oxide (TBT	56-35-9	All	Intentionally added or 0.1	false
Boric Acid	10043-35-3, 111	All	0.1 mass% of article	false
Cadmium	7440-43-9	All	0.1 mass% of article	false
Cadmium oxide	1306-19-0	All	0.1 mass% of article	false
Cadmium sulphide	1306-23-6	All	0.1 mass% of article	false
Chrysen	218-01-9	Rubber or plastic parts th	0.0001 mass% of the plas	false
Chrysen	218-01-9	Rubber or plastic parts of	0.00005 mass% of the pla	false
Cobalt dichloride	7646-79-9	All	0.1 mass% of article	false
Diarsenic pentoxide	1303-28-2	All	0.1 mass% of article	false
Diarsenic trioxide	1327-53-3	All	0.1 mass% of article	false
Dibenzo[a,h]anthracene	53-70-3	Rubber or plastic parts th	0.0001 mass% of the plas	false
Dibenzo[a,h]anthracene	53-70-3	Rubber or plastic parts of	0.00005 mass% of the pla	false
Diboron trioxide	1303-86-2	All	0.1 mass% of article	false
Dibutyl phthalate (DBP)	84-74-2	All	0.1 mass% in homogenou	false
Dibutyltin dichloride (DBT	683-18-1	All	0.1 mass% of article	false
Diisobutyl phthalate	84-69-5	All	0.1 mass% in homogenou	false
Diisodecyl phthalate (DID	68515-49-1, 267	All	Intentionally added	false
Diisononyl phthalate (DIN	I28553-12-0, 685	All	Intentionally added	false
Diisopentylphthalate	605-50-5	All	0.1 mass% of article	false
Dimethyl Fumarate (DMF)	624-49-7	All	0.00001 mass% of the pa	false
Di-n-hexyl Phthalate (DnH	84-75-3	All	Intentionally added or 0.1	false
Dioxobis(stearato)trilead	12578-12-0	All	0.1 mass% of article	false

Dipentyl phthalate (DPP)	131-18-0	All	0.1 mass% of article	false
Disodium 3,3'-[[1,1'-biphe	573-58-0	All	0.1 mass% of article	false
Disodium 4-amino-3-[[4'-[1937-37-7	All	0.1 mass% of article	false
Fatty acids, C16-18, lead s	91031-62-8	All	0.1 mass% of article	false
Formaldehyde	50-00-0	Textiles	0.0075 mass % of textile	false
Imidazolidine-2-thione;	296-45-7	All	0.1 mass% of article	false
Lead chromate	7758-97-6	All	0.1 mass% of article	false
Lead chromate molybdate	12656-85-8	All	0.1 mass% of article	false
Lead cyanamidate	20837-86-9	All	0.1 mass% of article	false
Lead dinitrate	10099-74-8	All	0.1 mass% of article	false
Lead oxide sulfate	12036-76-9	All	0.1 mass% of article	false
Lead sulfochromate yellow	1344-37-2	All	0.1 mass% of article	false
Lead titanium trioxide	12060-00-3	All	0.1 mass% of article	false
Lead titanium zirconium o	12626-81-2	All	0.1 mass% of article	false
N,N-dimethylformamide	68-12-2	All	0.1 mass% of article	false
Nickel	7440-02-0	All, where prolonged skin	Intentionally Added	false
N-pentyl-isopentylphthala	776297-69-9	All	0.1 mass% of article	false
Orange lead (lead tetroxid	1314-41-6	All	0.1 mass% of article	false
Pentadecafluorooctanoic	335-67-1	All	0.1 mass% of article	false
Pentalead tetraoxide sulpl	12065-90-6	All	0.1 mass% of article	false
Pentazinc chromate octah	49663-84-5	All	0.1 mass% of article	false
Potassium hydroxyoctaoxi	11103-86-9	All	0.1 mass% of article	false
Pyrochlore, antimony lead	8012-00-8	All	0.1 mass% of article	false
reaction mass of 2-ethylhexyl	10-ethyl-4,4-	All	0.1 mass% of article	false
Silicic acid (H ₂ Si ₂ O ₅), bari	68784-75-8	All	0.1 mass% of article	false
Strontium chromate	7789-06-2	All	0.1 mass% of article	false
Sulfurous acid, lead salt, d	62229-08-7	All	0.1 mass% of article	false
Tetralead trioxide sulphat	12202-17-4	All	0.1 mass% of article	false
Trilead dioxide phosphon	12141-20-7	All	0.1 mass% of article	false
Tris(2-chloroethyl)phosph	115-96-8	All	0.1 mass% of article	false
Trixylyl phosphate	25155-23-1	All	0.1 mass% of article	false

Part ID	Description	# of Units	Part Mass %
Other Items 1	Other Items	1	0.00

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, c	0.1 mass% of total Pb	false			
			Mercury/Mercury Compounds	All, except batteries	Intentionally Added	o	false		
			Polybrominated Biphenyl	All	0.1 mass% in homoge	false			
			Polybrominated Diphenyl	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 lami	0.09 mass% total brom	false		
			Brominated flame retardants	Plastic materials except pi	0.1 mass% of bromine	false		
			Chlorinated Flame Retardants	Plastic materials except pi	0.1 mass% chlorine in	false		
			Chlorinated Flame Retardants	Printed Wiring Board (PW	0.09 mass% total chlo	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 batte	false		
	Dibutyltin (DBT) compounds		All	0.1 mass% of tin in the pa	false		
	Diocetyl tin (DOT) compounds		(a) textile and leather arti	0.1 mass% of tin in the pa	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		
	Hexahydromethylphthalic anhydride		All	0.1 mass% of article	false		
	Lead/Lead Compounds		Consumer products desig	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 batte	false		
	Perfluorononan-1-oic-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-)]dioxotrileac	69011-06-9	Heat stabilizer for plastic	0.1 mass% of article	false		
	1,2-benzenedicarboxylic a	68515-51-5, 686	Plasticisers, lubricants, ac	0.1 mass% of article	false		
	1,2-Benzenedicarboxylic a	71888-89-6	Plasticizer, dye, pigment,	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 pape	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	20837-86-9	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 phosphon	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