

Material Data Declaration Sheet - v003

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Substance Database Version: IEC 62474 D16.00



Supplier Information

Company Name *	Intel Corporation
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Contact Name *	Larson, Shane P
Contact Title *	Intel Product Ecology
Contact Phone *	1-800-628-8686
Contact Email *	productecology@intel.com

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Product(s)

Product Family Name: CASLKSV

Requester Item Number	Item Number *	Description	Effective Date *	Mass *	UoM*	Comment
	CD8069504xxxx0xS	CD8069504xxxx0xS	2019-01-09	107.32000	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 %
CD8069504xxxx0xS	CD8069504xxxx0xS	1	100.0000

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 material	false			
			Bis (2-ethylhexyl)phthalate	All	0.1 mass% in homogenous material	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 material	false			
			Diisobutyl phthalate	All	0.1 mass% in homogenous material	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 (PBBs)	All	0.1 mass% in homogenous material	false			
			Polybrominated Diphenylethers (PBDEs)	All	0.1 mass% in homogenous material	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		
			Brominated flame retardants (other than	Plastic materials except printed wiring board	0.1 mass% of bromine in plastic	false		
			Chlorinated Flame Retardants (CFR)	Plastic materials except printed wiring board	0.1 mass% chlorine in plastic materials	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, ethoxylated			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 come	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)			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 ⁻⁷ mass% of battery or product part	false		
Perfluorohexane-1-sulphonic acid and its salts			All	0.1 mass% of article	false		
Perfluorononane-1-oic acid and its sodium and			All	0.1 mass% of article	false		
Polychlorinated Biphenyls (PCBs) and			All	Intentionally added	false		
Polychlorinated Naphthalenes (PCNs)			All	Intentionally added	false		
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-)]dioxotriolead	69011-06-9	All	0.1 mass% of article	false		0.0000
	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters	68515-51-5, 68648-93-1	All	0.1 mass% of article	false		0.0000
	1,2-Benzenedicarboxylic acid, di-C6-8-branched	71888-89-6	All	0.1 mass% of article	false		0.0000
	1,2-Benzenedicarboxylic acid, di-C7-11-branched	68515-42-4	All	0.1 mass% of article	false		0.0000
	1,2-Benzenedicarboxylic acid, dihexyl ester,	68515-50-4	All	0.1 mass% of article	false		0.0000
	1,2-Benzenedicarboxylic acid, dipentylester,	84777-06-0	All	0.1 mass% of article	false		0.0000
	1,2-bis(2-methoxyethoxy) ethane (TEGDME;	112-49-2	All	0.1 mass% of article	false		0.0000
	1,2-Diethoxyethane	629-14-1	All	0.1 mass% of article	false		0.0000

1,2-dimethoxyethane; ethylene glycol dimethyl	110-71-4	All	0.1 mass% of article	false	0.0000
1,3-propanesultone	1120-71-4	All	0.1 mass% of article	false	0.0000
2-(2H-benzotriazol-2-yl)-4- -(tert-butyl)-6-(sec-butyl)	36437-37-3	All	0.1 mass% of article	false	0.0000
2-(2H-benzotriazol-2-yl)-4- ,6-ditertpentylphenol	25973-55-1	All	0.1 mass% of article	false	0.0000
2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol	3864-99-1	All	0.1 mass% of article	false	0.0000
2-benzotriazol-2-yl-4,6-di- tert-butylphenol (UV-320)	3846-71-7	All	Intentionally added or 0.1 mass% of article	false	0.0000
2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo	15571-58-1	All	0.1 mass% of article	false	0.0000
4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	All	0.1 mass% of article	false	0.0000
4,4'-isopropylidenediphenol	80-05-7	All	Intentionally added or 0.1 mass% of article	false	0.0000
4-Aminoazobenzene	60-09-3	All	0.1 mass% of article	false	0.0000
Ammonium pentadecafluorooctanoate	3825-26-1	All	0.1 mass% of article	false	0.0000
Benz[a]anthracene	56-55-3; 1718-53-2	All	0.1 mass% of article	false	0.0000
Benzo[a]anthracene	56-55-3	Rubber or plastic parts that come into direct,	0.0001 mass% of the plastic or rubber part	false	0.0000
Benzo[a]anthracene	56-55-3	Rubber or plastic parts of toys and childcare	0.00005 mass% of the plastic or rubber part	false	0.0000
Benzo[a]pyrene	50-32-8	Rubber or plastic parts that come into direct,	0.0001 mass% of the plastic or rubber part	false	0.0000
Benzo[a]pyrene	50-32-8	Rubber or plastic parts of toys and childcare	0.00005 mass% of the plastic or rubber part	false	0.0000
Benzo[b]fluoranthene	205-99-2	Rubber or plastic parts that come into direct,	0.0001 mass% of the plastic or rubber part	false	0.0000
Benzo[b]fluoranthene	205-99-2	Rubber or plastic parts of toys and childcare	0.00005 mass% of the plastic or rubber part	false	0.0000
Benzo[def]chrysene	50-32-8	All	0.1 mass% of article	false	0.0000
Benzo[e]pyrene	192-97-2	Rubber or plastic parts that come into direct,	0.0001 mass% of the plastic or rubber part	false	0.0000
Benzo[e]pyrene	192-97-2	Rubber or plastic parts of toys and childcare	0.00005 mass% of the plastic or rubber part	false	0.0000
Benzo[ghi]perylene	191-24-2	All	0.1 mass% of article	false	0.0000
Benzo[j]fluoranthene	205-82-3	Rubber or plastic parts that come into direct,	0.0001 mass% of the plastic or rubber part	false	0.0000
Benzo[j]fluoranthene	205-82-3	Rubber or plastic parts of toys and childcare	0.00005 mass% of the plastic or rubber part	false	0.0000
Benzo[k]fluoranthene	207-08-9	Rubber or plastic parts that come into direct,	0.0001 mass% of the plastic or rubber part	false	0.0000
Benzo[k]fluoranthene	207-08-9	Rubber or plastic parts of toys and childcare	0.00005 mass% of the plastic or rubber part	false	0.0000
Benzyl butyl phthalate (BBP)	85-68-7	All	0.1 mass% in homogenous material	false	0.0000
Beryllium Oxide	1304-56-9	All	0.1 mass%	false	0.0000
Bis (2-ethylhexyl)phthalate	117-81-7	All	0.1 mass% in homogenous material	false	0.0000
Bis(2-methoxyethyl) ether	111-96-6	All	0.1 mass% of article	false	0.0000
Bis(2-methoxyethyl) phthalate	117-82-8	All	0.1 mass% of article	false	0.0000

Bis(pentabromophenyl) ether	1163-19-5	All	0.1 mass% of article	false	0.0000
Bis(tributyltin) oxide (TBTO)	56-35-9	All	Intentionally added or 0.1 mass% of article	false	0.0000
Boric Acid	10043-35-3, 11113-50-1	All	0.1 mass% of article	false	0.0000
Cadmium	7440-43-9	All	0.1 mass% of article	false	0.0000
Cadmium hydroxide	21041-95-2	All	0.1 mass% of article	false	0.0000
Cadmium oxide	1306-19-0	All	0.1 mass% of article	false	0.0000
Cadmium sulphide	1306-23-6	All	0.1 mass% of article	false	0.0000
Chrysen	218-01-9	Rubber or plastic parts that come into direct,	0.0001 mass% of the plastic or rubber part	false	0.0000
Chrysen	218-01-9	Rubber or plastic parts of toys and childcare	0.00005 mass% of the plastic or rubber part	false	0.0000
Chrysene	218-01-9; 1719-03-5	All	0.1 mass% of article	false	0.0000
Cobalt dichloride	7646-79-9	All	0.1 mass% of article	false	0.0000
Decamethylcyclopentasiloxane	541-02-6	All	0.1 mass% of article	false	0.0000
Diarsenic pentoxide	1303-28-2	All	0.1 mass% of article	false	0.0000
Diarsenic trioxide	1327-53-3	All	0.1 mass% of article	false	0.0000
Dibenzo[a,h]anthracene	53-70-3	Rubber or plastic parts that come into direct,	0.0001 mass% of the plastic or rubber part	false	0.0000
Dibenzo[a,h]anthracene	53-70-3	Rubber or plastic parts of toys and childcare	0.00005 mass% of the plastic or rubber part	false	0.0000
Diboron trioxide	1303-86-2	All	0.1 mass% of article	false	0.0000
Dibutyl phthalate (DBP)	84-74-2	All	0.1 mass% in homogenous material	false	0.0000
Dibutyltin dichloride (DBTC)	683-18-1	All	0.1 mass% of article	false	0.0000
Dicyclohexyl phthalate	84-61-7	All	0.1 mass% of article	false	0.0000
Diisobutyl phthalate	84-69-5	All	0.1 mass% in homogenous material	false	0.0000
Di-isodecyl phthalate (DIDP)	68515-49-1, 26761-40-0	All	Intentionally added	false	0.0000
Diisononyl phthalate (DINP)	28553-12-0, 68515-48-0	All	Intentionally added	false	0.0000
Diisopentylphthalate	605-50-5	All	0.1 mass% of article	false	0.0000
Dimethyl Fumarate (DMF)	624-49-7	All	0.00001 mass% of the part	false	0.0000
Di-n-hexyl Phthalate (DnHP)	84-75-3	All	Intentionally added or 0.1 mass% of article	false	0.0000
Dioxobis(stearato)trilead	12578-12-0	All	0.1 mass% of article	false	0.0000
Dipentyl phthalate (DPP)	131-18-0	All	0.1 mass% of article	false	0.0000
Disodium 3,3'-[1,1'-biphenyl]-4,4'-diyl	573-58-0	All	0.1 mass% of article	false	0.0000
Disodium 4-amino-3-[[4'-[[2,4-diaminophenyl]oxy]phenyl]oxy]phenyl	1937-37-7	All	0.1 mass% of article	false	0.0000
Disodium octaborate	12008-41-2	All	0.1 mass% of article	false	0.0000

Dodecamethylcyclohexasiloxane	540-97-6	All	0.1 mass% of article	false	0.0000
Fatty acids, C16-18, lead salts	91031-62-8	All	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	All	0.1 mass% of article	false	0.0000
Lead	7439-92-1	All	0.1 mass% of article	false	0.0000
Lead chromate	7758-97-6	All	0.1 mass% of article	false	0.0000
Lead chromate molybdate sulphate red (C.I. Pigment)	12656-85-8	All	0.1 mass% of article	false	0.0000
Lead cyanamidate	20837-86-9	All	0.1 mass% of article	false	0.0000
Lead dinitrate	10099-74-8	All	0.1 mass% of article	false	0.0000
Lead oxide sulfate	12036-76-9	All	0.1 mass% of article	false	0.0000
Lead sulfochromate yellow (C.I. Pigment)	1344-37-2	All	0.1 mass% of article	false	0.0000
Lead titanium trioxide	12060-00-3	All	0.1 mass% of article	false	0.0000
Lead titanium zirconium oxide	12626-81-2	All	0.1 mass% of article	false	0.0000
N,N-dimethylformamide	68-12-2	All	0.1 mass% of article	false	0.0000
N-pentyl-isopentylphthalate	776297-69-9	All	0.1 mass% of article	false	0.0000
Octamethylcyclotetrasiloxane	556-67-2	All	0.1 mass% of article	false	0.0000
Orange lead (lead tetroxide)	1314-41-6	All	0.1 mass% of article	false	0.0000
Pentadecafluorooctanoic acid (PFOA)	335-67-1	All	0.1 mass% of article	false	0.0000
Pentalead tetraoxide sulphate	12065-90-6	All	0.1 mass% of article	false	0.0000
Pentazinc chromate octahydroxide	49663-84-5	All	0.1 mass% of article	false	0.0000
Potassium hydroxyoctaoxodizincated	11103-86-9	All	0.1 mass% of article	false	0.0000
Pyrochlore, antimony lead yellow	8012-00-8	All	0.1 mass% of article	false	0.0000
reaction mass of 2-ethylhexyl		All	0.1 mass% of article	false	0.0000
Silicic acid (H ₂ SiO ₅), barium salt (1:1).	68784-75-8	All	0.1 mass% of article	false	0.0000
Strontium chromate	7789-06-2	All	0.1 mass% of article	false	0.0000
Sulfurous acid, lead salt, dibasic	62229-08-7	All	0.1 mass% of article	false	0.0000
Terphenyl, hydrogenated	61788-32-7	All	0.1 mass% of article	false	0.0000
Tetralead trioxide sulphate	12202-17-4	All	0.1 mass% of article	false	0.0000
Trilead dioxide phosphonate	12141-20-7	All	0.1 mass% of article	false	0.0000
Tris(2-chloroethyl)phosphate	115-96-8	All	0.1 mass% of article	false	0.0000
Trixylyl phosphate	25155-23-1	All	0.1 mass% of article	false	0.0000