Schema Database Version* IEC 62474 X3.00 Substance Database Version* IEC 62474 D9.00

Supplier Information

Company Name*	Intel Corporation	Contact Name*	Evelyn L Zuniga						
Response Document ID	8620	Contact Title*	Intel Product Ecology						
Company Unique ID	047897855	Contact Phone*	1-800-628-8686						
Unique ID Authority	Dun and Bradstreet	Contact Email*	productecology@intel.com						
Response Date*	3/5/2015								
Supplier Comments	Intel.com - Intel certifies that it gathered the provided information and such nformation 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								
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	remedies of Intel's Standard To	erms and Conditions of Sale ap	plicable to such part shall						
	[app-].								

Product(s)

Product Family Name: Intel 4th Gen Core processor										
Requester Item Number	Mfr Item Number*	Mfr Item Description	Effective Date*	Mass*	UOM*	Comment				
	FC-BGA14F FH8065801* FH8065802 *1234L	FC-BGA14F 1234L	3/5/2015	1.366	g					
	FC-BGA14F FH8065801* FH8065802* 1168L	FC-BGA14F 1168L	3/5/2015	2.63	g					
	FC-BGA14F FH8065802* 1364L	FC-BGA14F 1364L	10/20/2015	5.002	g					

Declaration

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 and/or PVC may not be better for the environment.

Intel components as well as purchased components on the finished assembly meet the joint JEDEC/ECA JS-709A requirement.

This product is Low Halogen (PCB): Applies only to brominated and chlorinated flame retardants (BFRs/CFRs) in the PCB laminate. The replacement of halogenated flame retardants may not be better for the environment.

The PCB / substrate meet IEC 61249-2-21 requirements.

This product is EU RoHS 2 (Directive 2011/65/EU) compliant.

Signature

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

True

RoHS

NUH5									
Homogeneous Material Name	Material Class ID	HM Mass %	Substance Group	Reportable Application	Reporting Threshold	Above Threshold? (T/F)	Substance Mass %	Exemption	Comments
			Cadmium/Cadmium compounds	All, except batteries	0.01 mass% of total Cd in homogenous material	False			
			Chromium (VI) Compounds	All	0.1 mass% of total Cr+6 in homogenous material	False			
			Lead/Lead Compounds	All, except for batteries, cables and children's articles/toys	0.1 mass% of total Pb in homogenous material	False			
			Mercury/Mercury Compounds	All, except batteries	Intentionally Added or 0.1 mass% of total Hg in homogenous material	False			
			Polybrominated Biphenyls (PBBs)	All	0.1 mass% in homogenous material	False			
			Polybrominated Diphenylethers (PBDEs)	All	0.1 mass% in homogenous material	False			

Homogeneous Material Name	Material Class ID	Material Mass%	Substance Group	Reportable Application	Reporting Threshold	Above Threshold?	Substance Mass% of	Comments	

				(T / F)	Material	
	Brominated flame retardants (other than PBBs, PBDEs, or HBCDD)	Plastic materials except printed wiring board laminates	0.1 mass% of bromine in plastic materials	False		
	Brominated flame retardants (other than PBBs, PBDEs, or HBCDD)	Printed wiring board laminate	0.09 mass% total bromine content in laminate	False		
	Chlorinated Flame Retardants (CFR)	Plastic materials except printed wiring board laminates	0.1 mass% chlorine in plastic materials	False		
	Chlorinated Flame Retardants (CFR)	Printed Wiring Board (PWB) Laminates	0.09 mass% total chlorine content in laminate	False		

Other Declarable Substances

Substance Group	Substance	CAS #	Reportable Application	Reporting Threshold	Above Threshold? (T/F)	Substance Mass (% of Product)	Comments
4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well- defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]			All	0.1 mass%	False	0 %	
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)			All	Intentionally added or 0.1 mass%	False	0 %	
Aluminosilicate Refractory Ceramic Fibres			All	0.1 mass %	False	0 %	
Asbestos			All	Intentionally added	False	0 %	

Azocolourants and azodyes which form certain aromatic amines		Textiles and Leather	0.003% by weight of the finished textile/leather product	False	0 %	
Cadmium/Cadmium compounds		Batteries	0.001% by weight of battery	False	0 %	
Dibutyltin (DBT) compounds		All	0.1 mass% of tin in the part	False	0 %	
Dioctyltin (DOT) compounds		(a) textile and leather articles intended to come into contact with the skin,,(b) childcare articles,(c) two- component room temperature vulcanisation moulding kits (RTV-2 moulding kits)	0.1 mass% of tin in the part	False	0 %	
Disodium tetraborates		All	0.1 mass%	False	0 %	
Fluorinated Greenhouse Gases (PFC, SF6, HFC)		All	Intentionally Added	False	0 %	
Hexabromocyclodode cane (HBCDD) and all major diastereoisomers identified: Alpha- hexabromocyclododec ane Beta- hexabromocyclododec ane Gamma- hexabromocyclododec ane		All	Intentionally added or 0.1 mass%	False	0 %	
Hexahydromethylphth alic anhydride		All	0.1 mass%	False	0 %	
Lead/Lead Compounds		Consumer products designed or intended primarily for children 12 years of age or younger	0.01 mass%	False	0 %	
Lead/Lead Compounds		Paint and similar surface coatings of toys and other articles intended for use by children	0.009 mass% of surface coating material	False	0 %	
Lead/Lead Compounds		Cables/cords with thermoset or thermoplastic coatings	0.03 mass% of surface coating material	False	0 %	

Lead/Lead Compounds		Batteries	0.004 mass% of battery	False	0 %	
Mercury/Mercury Compounds		Batteries	Intentionally added or 0.0001 mass% of battery	False	0 %	
Mercury/Mercury Compounds		Batteries	0.0005 mass% of total Hg in homogenous material	False	0 %	
Ozone Depleting Substances (CFC, Halon, HBFC, HCFC & others)		All	Intentionally Added	False	0 %	
Perchlorates		All	6 x 10 ^-7 mass% of battery or product part	False	0 %	
Perfluorooctane sulfonates (PFOS)		Textiles or other coated materials.	Intentionally added or 1 microgram/m2 of coated material	False	0 %	
Perfluorooctane sulfonates (PFOS)		All except textiles or other coated materials.	Intentionally added or 0.1 mass% of the part (as the sum of PFOS)	False	0 %	
Perfluorooctanoic acid (PFOA) and individual salts and esters of PFOA		Textiles, photographic coatings applied to films, paper or printing plates and other coated consumer products.	1 microgram/m2 (as the sum of PFOA)	False	0 %	
Perfluorooctanoic acid (PFOA) and individual salts and esters of PFOA		All except textiles, photographic coatings applied to films, paper or printing plates and other coated consumer products.	0.1 mass% of the part (as the sum of PFOA)	False	0 %	
Phthalates, Selected Group 1 (BBP, DBP, DEHP)		Children's toy or child care article	0.1 mass% as the sum of the phthalate concentrations in plasticized material	False	0 %	
Phthalates, Selected Group 2 (DIDP, DINP, DNOP)		Children's toy or child care article that can be placed in a child's mouth	0.1 mass% as the sum of the phthalate concentrations in plasticized material	False	0 %	
Polychlorinated Biphenyls (PCBs) and specific substitutes		All	Intentionally added	False	0 %	
Polychlorinated Naphthalenes (PCNs)		All	Intentionally added	False	0 %	
Polychlorinated Terphenyls (PCTs)		All	0.005 mass% in material	False	0 %	

Radioactive substances			All	Intentionally added	False	0 %	
Tri-substituted organostannic compounds			All	Intentionally added or 0.1 mass% of tin in the part	False	0 %	
Zirconia Aluminosilicate Refractory Ceramic Fibres			All	0.1 mass %	False	0 %	
	[Phthalato(2-)]dioxotrilead	69011-06-9	All	0.1 mass%	False	0 %	
	1,2- benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2- benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with 0.3% of dihexyl phthalate (EC No. 201-559-5)	68515-51-5 68648-93-1	All	0.1 mass%	False	0 %	
	1,2- Benzenedicarboxylic acid, di-C6-8- branched alkyl esters, C7-rich	71888-89-6	All	0.1 mass%	False	0 %	
	1,2- Benzenedicarboxylic acid, di-C7-11- branched and linear alkyl esters	68515-42-4	All	0.1 mass%	False	0 %	
	1,2- Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	All	0.1 mass%	False	0 %	
	1,2- Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	All	0.1 mass%	False	0 %	
	1,2-bis(2- methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	All	0.1 mass%	False	0 %	
	1,2-Diethoxyethane	629-14-1	All	0.1 mass%	False	0 %	
	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	All	0.1 mass%	False	0 %	

2-(2H-benzotriazol-2- yl)-4,6-	25973-55-1	All	0.1 mass%	False	0 %	
ditertpentylphenol (UV-328)						
2-benzotriazol-2-yl- 4,6-di-tert-butylphenol (UV-320)	3846-71-7	All	Intentionally added or 0.1 mass%	False	0 %	
2-ethylhexyl 10-ethyl- 4,4-dioctyl-7-oxo-8- oxa-3,5-dithia-4- stannatetradecanoate (DOTE)	15571-58-1	All	0.1 mass%	False	0 %	
4-(1,1,3,3- tetramethylbutyl)phen ol	140-66-9	All	0.1 mass%	False	0 %	
4-Aminoazobenzene	60-09-3	All	0.1 mass%	False	0 %	
Ammonium pentadecafluorooctano ate (APFO)	3825-26-1	All	0.1 mass%	False	0 %	
Benzenamine, N- phenyl-, reaction products with styrene and 2,4,4- trimethylpentene	68921-45-9	All	Intentionally added	False	0 %	
Benzo[a]anthracene	56-55-3	Rubber or plastic parts that come into direct, prolonged or repetitive skin or oral cavity contact except those for toys or childcare articles	0.0001 mass% of the plastic or rubber part	False	0 %	
Benzo[a]anthracene	56-55-3	Rubber or plastic parts of toys and childcare articles that come into direct, prolonged or repetitive skin or oral cavity contact	0.00005 mass% of the plastic or rubber part	False	0 %	
Benzo[a]pyrene	50-32-8	Rubber or plastic parts of toys and childcare articles that come into direct, prolonged or repetitive skin or oral cavity contact	0.00005 mass% of the plastic or rubber part	False	0 %	

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Benzo[k]fluora	100 100 100 100 100 100 100 100 100 100	Rubber or plastic parts that come into direct, prolonged or repetitive skin or oral cavity contact except those for toys or childcare articles	0.0001 mass% of the plastic or rubber part	False	0 %	
Benzo[k]fluora	11111111111111111111111111111111111111	Rubber or plastic parts of toys and childcare articles that come into direct, prolonged or repetitive skin or oral cavity contact	0.00005 mass% of the plastic or rubber part	False	0 %	
Benzyl butyl ph (BBP)	thalate 85-68-7	All	0.1 mass%	False	0 %	
Beryllium Oxid	e 1304-56-9	All	0.1 mass%	False	0 %	
Bis (2- ethylhexyl)phth (DEHP)	alate 117-81-7	All	0.1 mass%	False	0 %	
Bis(2-methoxye ether	ethyl) 111-96-6	All	0.1 mass%	False	0 %	
Bis(2-methoxye phthalate	ethyl) 117-82-8	All	0.1 mass%	False	0 %	
Bis(pentabromo) ether (decabromodipl ether) (DecaBD	pphenyl 1163-19-5 nenyl E)	All	0.1 mass%	False	0 %	
Bis(tributyltin) (TBTO)	oxide 56-35-9	All	Intentionally added or 0.1 mass%	False	0 %	
Boric Acid	10043-35-3 11113-50-1	All	0.1 mass%	False	0 %	
Cadmium	7440-43-9	All	0.1 mass%	False	0 %	
Cadmium oxide	1306-19-0	All	0.1 mass%	False	0 %	
Cadmium sulph	ide 1306-23-6	All	0.1 mass%	False	0 %	
Chrysen	218-01-9	Rubber or plastic parts that come into direct, prolonged or repetitive skin or oral cavity contact except those for toys or childcare articles	0.0001 mass% of the plastic or rubber part	False	0 %	
Chrysen	218-01-9	Rubber or plastic parts of toys and childcare articles that come into direct, prolonged or repetitive skin or oral cavity contact	0.00005 mass% of the plastic or rubber part	False	0 %	

Cobalt dichloride	7646-79-9	All	0.1 mass%	False	0 %	
Diarsenic pentoxide	1303-28-2	A11	0.1 mass%	False	0%	
Diarsenic trioxide	1327-53-3	A11	0.1 mass%	False	0%	
Dibenzo[a,h]anthracen e	53-70-3	Rubber or plastic parts that come into direct, prolonged or repetitive skin or oral cavity contact except those for toys or childcare articles	0.0001 mass% of the plastic or rubber part	False	0 %	
Dibenzo[a,h]anthracen e	53-70-3	Rubber or plastic parts of toys and childcare articles that come into direct, prolonged or repetitive skin or oral cavity contact	0.00005 mass% of the plastic or rubber part	False	0 %	
Diboron trioxide	1303-86-2	All	0.1 mass%	False	0 %	
Dibutyl phthalate (DBP)	84-74-2	All	0.1 mass%	False	0 %	
Dibutyltin dichloride (DBTC)	683-18-1	All	0.1 mass%	False	0 %	
Diisobutyl phthalate	84-69-5	All	0.1 mass%	False	0 %	
Di-isodecyl phthalate (DIDP)	68515-49-1 26761-40-0	All	Intentionally added	False	0 %	
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	All	Intentionally added	False	0 %	
Diisopentylphthalate	605-50-5	All	0.1 mass%	False	0 %	
Dimethyl Fumarate (DMF)	624-49-7	All	0.00001 mass% of the part	False	0 %	
Di-n-hexyl Phthalate (DnHP)	84-75-3	All	Intentionally added or 0.1 mass%	False	0 %	
Dioxobis(stearato)trile ad	12578-12-0	All	0.1 mass%	False	0 %	
Dipentyl phthalate (DPP)	131-18-0	All	0.1 mass%	False	0 %	
Disodium 3,3'-[[1,1'- biphenyl]-4,4'- diylbis(azo)]bis(4- aminonaphthalene-1- sulphonate) (C.I. Direct Red 28)	573-58-0	All	0.1 mass%	False	0 %	
(DnHP) Dioxobis(stearato)trile ad Dipentyl phthalate (DPP) Disodium 3,3'-[[1,1'- biphenyl]-4,4'- diylbis(azo)]bis(4- aminonaphthalene-1- sulphonate) (C.I. Direct Red 28)	12578-12-0 131-18-0 573-58-0	All All	0.1 mass% 0.1 mass% 0.1 mass% 0.1 mass%	False False	0 % 0 % 0 %	

Disodium 4-amino-3- [[4'-[(2,4- diaminophenyl)azo][1, 1'-biphenyl]-4-yl]azo]- 5-hydroxy-6- (phenylazo)naphthalen e-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	All	0.1 mass%	False	0 %	
Fatty acids, C16-18, lead salts	91031-62-8	All	0.1 mass%	False	0 %	
Formaldehyde	50-00-0	Textiles	0.0075 mass % of textile	False	0 %	
Imidazolidine-2- thione; (2- imidazoline-2-thiol)	96-45-7	All	0.1 mass%	False	0 %	
Lead chromate	7758-97-6	All	0.1 mass%	False	0 %	
Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	12656-85-8	All	0.1 mass%	False	0 %	
Lead cyanamidate	20837-86-9	All	0.1 mass%	False	0 %	
Lead dinitrate	10099-74-8	All	0.1 mass%	False	0 %	
Lead oxide sulfate	12036-76-9	All	0.1 mass%	False	0 %	
Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	All	0.1 mass%	False	0 %	
Lead titanium trioxide	12060-00-3	All	0.1 mass%	False	0 %	
Lead titanium zirconium oxide	12626-81-2	All	0.1 mass%	False	0 %	
N,N- dimethylformamide	68-12-2	All	0.1 mass%	False	0 %	
Nickel	7440-02-0	All, where prolonged skin contact is expected	Intentionally Added	False	0 %	
N-pentyl- isopentylphthalate	776297-69-9	All	0.1 mass%	False	0 %	
Orange lead (lead tetroxide)	1314-41-6	All	0.1 mass%	False	0 %	
Pentadecafluorooctano ic acid (PFOA)	335-67-1	All	0.1 mass%	False	0 %	
Pentalead tetraoxide sulphate	12065-90-6	All	0.1 mass%	False	0 %	
Pentazinc chromate octahydroxide	49663-84-5	All	0.1 mass%	False	0 %	

Potassium hydroxyoctaoxodizinc atedichromate	11103-86-9	All	0.1 mass%	False	0 %	
Pyrochlore, antimony lead yellow	8012-00-8	All	0.1 mass%	False	0 %	
reaction mass of 2- ethylhexyl 10-ethyl- 4,4-dioctyl-7-oxo-8- oxa-3,5-dithia-4- stannatetradecanoate and 2-ethylhexyl 10- ethyl-4-[[2-[(2- ethylhexyl)oxy]-2- oxoethyl]thio]-4- octyl-7-oxo-8-oxa-3,5- dithia-4- stannatetradecanoate (reaction mass of DOTE and MOTE)		All	0.1 mass%	False	0 %	
Silicic acid (H2Si2O5), barium salt (1:1), lead-doped	68784-75-8	All	0.1 mass%	False	0 %	
Strontium chromate	7789-06-2	All	0.1 mass%	False	0 %	
Sulfurous acid, lead salt, dibasic	62229-08-7	All	0.1 mass%	False	0 %	
Tetralead trioxide sulphate	12202-17-4	All	0.1 mass%	False	0 %	
Trilead dioxide phosphonate	12141-20-7	All	0.1 mass%	False	0 %	
Tris(2- chloroethyl)phosphate	115-96-8	All	0.1 mass%	False	0 %	
Trixylyl phosphate	25155-23-1	All	0.1 mass%	False	0 %	