# Material Data Declaration Sheet - v003

*Schema Database Version: IEC 62474 X6.01*

*Substance Database Version: IEC 62474 D17.00*

## Supplier Information

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|---|---|
| **Company Name *** | Intel Corporation |
| **Response Document ID** | 51025 |
| **Company Unique ID** | 047897855 |
| **Unique ID Authority** | Dun and Bradstreet |
| **Response Date *** | 2019-07-17 |

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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 |

**Supplier Comments**

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## Product(s)

**Product Family Name:**

| Requester Item Number | Item Number * | Description | Effective Date * | Mass * | UoM* | Comment |
|---|---|---|---|---|---|---|
| | N3XSTE150005 | N3XSTE150005 | 2019-07-17 | 9.29 | g | |

## Declaration

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|---|---|---|
| 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 is compliant with EU RoHS Directive 2 2011/65/EU (Directive 2011/65/EU) and its amendments (e.g. 2015/863/EU) | True |

## Signature

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

| Part ID | Description | # of Units | Part Mass % |
|---|---|---|---|
| N3XSTE150005 | N3XSTE150005 | 1 | 100.00 |

**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 |
|---|---|---|---|---|---|---|---|---|---|
| | | | 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 | | |

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|---|---|---|---|---|---|---|---|
| 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 | | |
| 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 | | |
| Perfluorononan-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-)]dioxotrilead | 69011-06-9 | All | 0.1 mass% of article | false | 0.00 | |
| | 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters | 68515-51-5, 68648-93-1 | All | 0.1 mass% of article | false | 0.00 | |
| | 1,2-Benzenedicarboxylic acid, di-C6-8-branched | 71888-89-6 | All | 0.1 mass% of article | false | 0.00 | |
| | 1,2-Benzenedicarboxylic acid, di-C7-11-branched | 68515-42-4 | All | 0.1 mass% of article | false | 0.00 | |
| | 1,2-Benzenedicarboxylic acid, dihexyl ester, | 68515-50-4 | All | 0.1 mass% of article | false | 0.00 | |
| | 1,2-Benzenedicarboxylic acid, dipentylester, | 84777-06-0 | All | 0.1 mass% of article | false | 0.00 | |
| | 1,2-bis(2-methoxyethoxy) ethane (TEGDME; | 112-49-2 | All | 0.1 mass% of article | false | 0.00 | |
| | 1,2-Diethoxyethane | 629-14-1 | All | 0.1 mass% of article | false | 0.00 | |

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| | 1,2-dimethoxyethane; ethylene glycol dimethyl | 110-71-4 | All | 0.1 mass% of article | false | 0.00 | |
| | 1,3-propanesultone | 1120-71-4 | All | 0.1 mass% of article | false | 0.00 | |
| | 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl) | 36437-37-3 | All | 0.1 mass% of article | false | 0.00 | |
| | 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol | 25973-55-1 | All | 0.1 mass% of article | false | 0.00 | |
| | 2,2-bis(4'-hydroxyphenyl)-4-methylpentane | 6807-17-6 | All | 0.1 mass% of article | false | 0.00 | |
| | 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)pheno | 3864-99-1 | All | 0.1 mass% of article | false | 0.00 | |
| | 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320) | 3846-71-7 | All | Intentionally added or 0.1 mass% of article | false | 0.00 | |
| | 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo | 15571-58-1 | All | 0.1 mass% of article | false | 0.00 | |
| | 4-(1,1,3,3-tetramethylbutyl)phenol | 140-66-9 | All | 0.1 mass% of article | false | 0.00 | |
| | 4,4'-isopropylidenediphenol | 80-05-7 | All | Intentionally added or 0.1 mass% of article | false | 0.00 | |
| | 4-Aminoazobenzene | 60-09-3 | All | 0.1 mass% of article | false | 0.00 | |
| | Ammonium pentadecafluorooctanoat | 3825-26-1 | All | 0.1 mass% of article | false | 0.00 | |
| | Benz[a]anthracene | 56-55-3; 1718-53-2 | All | 0.1 mass% of article | false | 0.00 | |
| | Benzo[a]anthracene | 56-55-3 | Rubber or plastic parts that come into direct, | 0.0001 mass% of the plastic or rubber part | false | 0.00 | |
| | Benzo[a]anthracene | 56-55-3 | Rubber or plastic parts of toys and childcare | 0.00005 mass% of the plastic or rubber part | false | 0.00 | |
| | Benzo[a]pyrene | 50-32-8 | Rubber or plastic parts that come into direct, | 0.0001 mass% of the plastic or rubber part | false | 0.00 | |
| | Benzo[a]pyrene | 50-32-8 | Rubber or plastic parts of toys and childcare | 0.00005 mass% of the plastic or rubber part | false | 0.00 | |
| | Benzo[b]fluoranthene | 205-99-2 | Rubber or plastic parts that come into direct, | 0.0001 mass% of the plastic or rubber part | false | 0.00 | |
| | Benzo[b]fluoranthene | 205-99-2 | Rubber or plastic parts of toys and childcare | 0.00005 mass% of the plastic or rubber part | false | 0.00 | |
| | Benzo[def]chrysene | 50-32-8 | All | 0.1 mass% of article | false | 0.00 | |
| | Benzo[e]pyrene | 192-97-2 | Rubber or plastic parts that come into direct, | 0.0001 mass% of the plastic or rubber part | false | 0.00 | |
| | Benzo[e]pyrene | 192-97-2 | Rubber or plastic parts of toys and childcare | 0.00005 mass% of the plastic or rubber part | false | 0.00 | |
| | Benzo[ghi]perylene | 191-24-2 | All | 0.1 mass% of article | false | 0.00 | |
| | Benzo[j]fluoranthene | 205-82-3 | Rubber or plastic parts that come into direct, | 0.0001 mass% of the plastic or rubber part | false | 0.00 | |
| | Benzo[j]fluoranthene | 205-82-3 | Rubber or plastic parts of toys and childcare | 0.00005 mass% of the plastic or rubber part | false | 0.00 | |
| | Benzo[k]fluoranthene | 207-08-9 | Rubber or plastic parts that come into direct, | 0.0001 mass% of the plastic or rubber part | false | 0.00 | |
| | Benzo[k]fluoranthene | 207-08-9 | Rubber or plastic parts of toys and childcare | 0.00005 mass% of the plastic or rubber part | false | 0.00 | |
| | Benzo[k]fluoranthene | 207-08-9 | All | 0.1 mass% of article | false | 0.00 | |
| | Benzyl butyl phthalate (BBP) | 85-68-7 | All | 0.1 mass% in homogenous material | false | 0.00 | |
| | Beryllium Oxide | 1304-56-9 | All | 0.1 mass% | false | 0.00 | |
| | Bis (2-ethylhexyl)phthalate | 117-81-7 | All | 0.1 mass% in homogenous material | false | 0.00 | |

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| | Bis(2-methoxyethyl) ether | 111-96-6 | All | 0.1 mass% of article | false | 0.00 | |
| | Bis(2-methoxyethyl) phthalate | 117-82-8 | All | 0.1 mass% of article | false | 0.00 | |
| | Bis(pentabromophenyl) ether | 1163-19-5 | All | 0.1 mass% of article | false | 0.00 | |
| | Bis(tributyltin) oxide (TBTO) | 56-35-9 | All | Intentionally added or 0.1 mass% of article | false | 0.00 | |
| | Boric Acid | 10043-35-3, 11113-50-1 | All | 0.1 mass% of article | false | 0.00 | |
| | Cadmium | 7440-43-9 | All | 0.1 mass% of article | false | 0.00 | |
| | Cadmium hydroxide | 21041-95-2 | All | 0.1 mass% of article | false | 0.00 | |
| | Cadmium oxide | 1306-19-0 | All | 0.1 mass% of article | false | 0.00 | |
| | Cadmium sulphide | 1306-23-6 | All | 0.1 mass% of article | false | 0.00 | |
| | Chrysen | 218-01-9 | Rubber or plastic parts that come into direct, | 0.0001 mass% of the plastic or rubber part | false | 0.00 | |
| | Chrysen | 218-01-9 | Rubber or plastic parts of toys and childcare | 0.00005 mass% of the plastic or rubber part | false | 0.00 | |
| | Chrysene | 218-01-9; 1719-03-5 | All | 0.1 mass% of article | false | 0.00 | |
| | Cobalt dichloride | 7646-79-9 | All | 0.1 mass% of article | false | 0.00 | |
| | Decamethylcyclopentasiloxane | 541-02-6 | All | 0.1 mass% of article | false | 0.00 | |
| | Diarsenic pentoxide | 1303-28-2 | All | 0.1 mass% of article | false | 0.00 | |
| | Diarsenic trioxide | 1327-53-3 | All | 0.1 mass% of article | false | 0.00 | |
| | 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 | 0.00 | |
| | 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 | 0.00 | |
| | Diboron trioxide | 1303-86-2 | All | 0.1 mass% of article | false | 0.00 | |
| | Dibutyl phthalate (DBP) | 84-74-2 | All | 0.1 mass% in homogenous material | false | 0.00 | |
| | Dibutyltin dichloride (DBTC) | 683-18-1 | All | 0.1 mass% of article | false | 0.00 | |
| | Dicyclohexyl phthalate | 84-61-7 | All | 0.1 mass% of article | false | 0.00 | |
| | Diisobutyl phthalate | 84-69-5 | All | 0.1 mass% in homogenous material | false | 0.00 | |
| | Di-isodecyl phthalate (DIDP) | 68515-49-1, 26761-40-0 | All | Intentionally added | false | 0.00 | |
| | Diisononyl phthalate (DINP) | 28553-12-0, 68515-48-0 | All | Intentionally added | false | 0.00 | |
| | Diisopentylphthalate | 605-50-5 | All | 0.1 mass% of article | false | 0.00 | |
| | Dimethyl Fumarate (DMF) | 624-49-7 | All | 0.00001 mass% of the part | false | 0.00 | |
| | Di-n-hexyl Phthalate (DnHP) | 84-75-3 | All | Intentionally added or 0.1 mass% of article | false | 0.00 | |
| | Dioxobis(stearato)trilead | 12578-12-0 | All | 0.1 mass% of article | false | 0.00 | |
| | Dipentyl phthalate (DPP) | 131-18-0 | All | 0.1 mass% of article | false | 0.00 | |
| | Disodium 3,3'-[[1,1'-biphenyl]-4,4'-d | 573-58-0 | All | 0.1 mass% of article | false | 0.00 | |

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| | Disodium 4-amino-3-[[4'-[(2,4-diami | 1937-37-7 | All | 0.1 mass% of article | false | 0.00 | |
| | Disodium octaborate | 12008-41-2 | All | 0.1 mass% of article | false | 0.00 | |
| | Dodecamethylcyclohexasiloxane | 540-97-6 | All | 0.1 mass% of article | false | 0.00 | |
| | Fatty acids, C16-18, lead salts | 91031-62-8 | All | 0.1 mass% of article | false | 0.00 | |
| | Fluoranthene | 206-44-0; 93951-69-0 | All | 0.1 mass% of article | false | 0.00 | |
| | Formaldehyde | 50-00-0 | Textiles | 0.0075 mass % of textile | false | 0.00 | |
| | Imidazolidine-2-thione; (2-imidazoline-2-thiol) | 96-45-7 | All | 0.1 mass% of article | false | 0.00 | |
| | Lead | 7439-92-1 | All | 0.1 mass% of article | false | 0.00 | |
| | Lead chromate | 7758-97-6 | All | 0.1 mass% of article | false | 0.00 | |
| | Lead chromate molybdate sulphate red (C.I. Pigment | 12656-85-8 | All | 0.1 mass% of article | false | 0.00 | |
| | Lead cyanamidate | 20837-86-9 | All | 0.1 mass% of article | false | 0.00 | |
| | Lead dinitrate | 10099-74-8 | All | 0.1 mass% of article | false | 0.00 | |
| | Lead oxide sulfate | 12036-76-9 | All | 0.1 mass% of article | false | 0.00 | |
| | Lead sulfochromate yellow (C.I. Pigment | 1344-37-2 | All | 0.1 mass% of article | false | 0.00 | |
| | Lead titanium trioxide | 12060-00-3 | All | 0.1 mass% of article | false | 0.00 | |
| | Lead titanium zirconium oxide | 12626-81-2 | All | 0.1 mass% of article | false | 0.00 | |
| | N,N-dimethylformamide | 68-12-2 | All | 0.1 mass% of article | false | 0.00 | |
| | N-pentyl-isopentylphthalate | 776297-69-9 | All | 0.1 mass% of article | false | 0.00 | |
| | Octamethylcyclotetrasiloxane | 556-67-2 | All | 0.1 mass% of article | false | 0.00 | |
| | Orange lead (lead tetroxide) | 1314-41-6 | All | 0.1 mass% of article | false | 0.00 | |
| | Pentadecafluorooctanoic acid (PFOA) | 335-67-1 | All | 0.1 mass% of article | false | 0.00 | |
| | Pentalead tetraoxide sulphate | 12065-90-6 | All | 0.1 mass% of article | false | 0.00 | |
| | Pentazinc chromate octahydroxide | 49663-84-5 | All | 0.1 mass% of article | false | 0.00 | |
| | Phenanthrene | 85-01-8 | All | 0.1 mass% of article | false | 0.00 | |
| | Potassium hydroxyoctaoxodizincatedi | 11103-86-9 | All | 0.1 mass% of article | false | 0.00 | |
| | Pyrene | 129-00-0; 1718-52-1 | All | 0.1 mass% of article | false | 0.00 | |
| | Pyrochlore, antimony lead yellow | 8012-00-8 | All | 0.1 mass% of article | false | 0.00 | |
| | reaction mass of 2-ethylhexyl | | All | 0.1 mass% of article | false | 0.00 | |
| | Silicic acid (H2Si2O5), barium salt (1:1), | 68784-75-8 | All | 0.1 mass% of article | false | 0.00 | |
| | Strontium chromate | 7789-06-2 | All | 0.1 mass% of article | false | 0.00 | |
| | Sulfurous acid, lead salt, dibasic | 62229-08-7 | All | 0.1 mass% of article | false | 0.00 | |

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| | Terphenyl, hydrogenated | 61788-32-7 | All | 0.1 mass% of article | false | 0.00 | |
| | Tetralead trioxide sulphate | 12202-17-4 | All | 0.1 mass% of article | false | 0.00 | |
| | Trilead dioxide phosphonate | 12141-20-7 | All | 0.1 mass% of article | false | 0.00 | |
| | Tris(2-chloroethyl)phosphate | 115-96-8 | All | 0.1 mass% of article | false | 0.00 | |
| | Trixylyl phosphate | 25155-23-1 | All | 0.1 mass% of article | false | 0.00 | |