## Material Data Declaration Sheet - v003

Schema Database Version: IEC 62474 X6.01
Substance Database Version: IEC 62474 D19.00

## Supplier Information

| Company Name $*$ | Intel Corporation |
| ---: | :--- |
| Response Document ID | 58609 |
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|  |  |


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## Product(s)

Product Family Name:
JACKSONVIL

| Requester Item Number | Item Number * | Description | Effective Date * | Mass * |  | UoM* | Comment |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | WGI219xx | WGI219xx | 2020-05-08 |  | 0.11 | g |  |

## Declaration

|  | This product is Low Halogen (Components): Applies only to brominated and chlorinated flame retardants <br> (BFRs/CFRs) and PVC in the final product. The replacement of halogenated flame retardants may not be <br> better for the environment. Intel Components as well as purchased components on the finished assembly <br> meet the joint JEDEC/ECA JS-709B requirement. | True |
| :--- | :--- | :--- |

## Signature

Intel Product Ecology

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C=US, E=productecology@intel.com, OU="", O=Intel Corporation, CN=Intel Product Ecology
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| Part ID | Description | \# of Units | Part Mass \% |  |
| :--- | :--- | :--- | :--- | :--- |
| WGI219xx | WGI219xx | 100.00 |  |  |


| Homogenous Material Name | Material Class ID | HM Mass \% | Substance Group | Reportable Application | Reporting Threshold | Above <br> 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 (DEHP) | All | 0.1 mass\% in homogenous material | false |  |  |  |
|  |  |  | 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 $\mathrm{Cr}+6$ in homogenous material | 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 coating material of | 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 | false |  |  |  |
|  |  |  | Polybrominated biphenyls (PBB) | All | 0.1 mass\% in homogenous material | false |  |  |  |
|  |  |  | Polybrominated diphenyl ethers (PBDE) | All | 0.1 mass\% in homogenous material | false |  |  |  |

## Low Halogen

| Homogenous Material Name | Material Class ID | HM Mass \% | Substance Group | Reportable Application | Reporting <br> Threshold | Above <br> Threshold? (T/F) | Substance <br> Mass \% of <br> HM | Comments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Brominated flame retardants (other than PBBs, PBDEs, or HBCDD) | Printed wiring board laminate | 0.09 mass\% total bromine content in laminate | false |  |  |


|  |  |  | Chlorinated Flame <br> Retardants (CFR) | Printed Wiring Board <br> (PWB) Laminates | 0.09 mass\% total <br> chlorine content in <br> laminate | 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 acyclo[12.2.1.16,9.02,13. |  |  | 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 Paraffins) |  |  | All | Intentionally added or 0.1 mass\% of article | false |  |  |
| Aluminosilicate <br> Refractory Ceramic Fibres |  |  | All | 0.1 mass\% of article | false |  |  |
| Asbestos |  |  | All | Intentionally added | false |  |  |
| Azocolourants and Azodyes which form certain aromatic amines |  |  | Textiles and Leather | $0.003 \%$ by weight of the finished textile/leather product | false |  |  |
| Brominated flame retardants (other than PBBs, PBDEs, or HBCDD) |  |  | Printed wiring board laminate | 0.09 mass\% total bromine content in laminate | false |  |  |
| 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 |  |  |
| Cadmium/Cadmium compounds |  |  | Batteries | $0.001 \%$ by weight of battery | 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 |  |  |
| Dibutyltin (DBT) compounds |  |  | All | 0.1 mass\% of tin in the part | false |  |  |




| Zirconia Aluminosilicate Refractory Ceramic Fibres |  |  | All | 0.1 mass\% of article | false |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | [Phthalato(2-)]dioxotrilea <br> d | 69011-06-9 | All | 0.1 mass\% of article | false | 0.00 |  |
|  | 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl | $\begin{array}{\|l} 68515-51-5 ; \\ 68648-93-1 \end{array}$ | All | 0.1 mass\% of article | false | 0.00 |  |
|  | 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich | 71888-89-6 | All | 0.1 mass\% of article | false | 0.00 |  |
|  | 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters | 68515-42-4 | All | 0.1 mass\% of article | false | 0.00 |  |
|  | 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear | 68515-50-4 | All | 0.1 mass\% of article | false | 0.00 |  |
|  | 1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear | 84777-06-0 | All | 0.1 mass\% of article | false | 0.00 |  |
|  | 1,2-bis(2-methoxyethoxy) <br> ethane (TEGDME; <br> triglyme) | 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 |  |
|  | 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) | 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-buty)-6-(sec-butyl) phenol (UV-350) | 36437-37-3 | All | 0.1 mass\% of article | false | 0.00 |  |
|  | 2-(2H-benzotriazol-2-yl)-4 <br> ,6-ditertpentylphenol <br> (UV-328) | 25973-55-1 | All | 0.1 mass\% of article | false | 0.00 |  |
|  | 2,2-bis(4'-hydroxyphenyl) <br> -4-methylpentane | 6807-17-6 | All | 0.1 mass\% of article | false | 0.00 |  |
|  | 2,4-di-tert-butyl-6-(5-chlo robenzotriazol-2-yl)pheno I (UV-327) | 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 <br> 10-ethyl-4,4-dioctyl-7-oxo <br> -8-oxa-3,5-dithia-4-stanna | 15571-58-1 | All | 0.1 mass\% of article | false | 0.00 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 4-(1,1,3,3-tetramethylbut yl)phenol | 140-66-9 | All | 0.1 mass\% of article | false | 0.00 |
| 4,4'-isopropylidenediphe nol | 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 e (APFO) | 3825-26-1 | All | 0.1 mass\% of article | false | 0.00 |
| Benz[a]anthracene | 56-55-3 | All | 0.1 mass\% of article | false | 0.00 |
| Benzo[a]anthracene (BaA) | 56-55-3 | Rubber or plastic parts that come into direct, prolonged or repetitive | 0.0001 mass\% of the plastic or rubber part | false | 0.00 |
| Benzo[a]anthracene <br> (BaA) | 56-55-3 | Rubber or plastic parts of toys and childcare articles that come into | 0.00005 mass \% of the plastic or rubber part | false | 0.00 |
| Benzo[a]pyrene (BaP) | 50-32-8 | Rubber or plastic parts that come into direct, prolonged or repetitive | 0.0001 mass\% of the plastic or rubber part | false | 0.00 |
| Benzo[a]pyrene (BaP) | 50-32-8 | Rubber or plastic parts of toys and childcare articles that come into | 0.00005 mass\% of the plastic or rubber part | false | 0.00 |
| Benzo[b]fluoranthene (BbFA) | 205-99-2 | Rubber or plastic parts that come into direct, prolonged or repetitive | 0.0001 mass\% of the plastic or rubber part | false | 0.00 |
| Benzo[b]fluoranthene (BbFA) | 205-99-2 | Rubber or plastic parts of toys and childcare articles that come into | 0.00005 mass\% of the plastic or rubber part | false | 0.00 |
| Benzo[def]chrysene (Benzo[a]pyrene) | 50-32-8 | All | 0.1 mass\% of article | false | 0.00 |
| Benzo[e]pyrene (BeP) | 192-97-2 | Rubber or plastic parts that come into direct, prolonged or repetitive | 0.0001 mass\% of the plastic or rubber part | false | 0.00 |
| Benzo[e]pyrene (BeP) | 192-97-2 | Rubber or plastic parts of toys and childcare articles that come into | 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 <br> (BjFA) | 205-82-3 | Rubber or plastic parts that come into direct, prolonged or repetitive | 0.0001 mass\% of the plastic or rubber part | false | 0.00 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Benzo[j]fluoranthene (BjFA) | 205-82-3 | Rubber or plastic parts of toys and childcare articles that come into | 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 |
| Benzo[k]fluoranthene (BkFA) | 207-08-9 | Rubber or plastic parts that come into direct, prolonged or repetitive | 0.0001 mass $\%$ of the plastic or rubber part | false | 0.00 |
| Benzo[k]fluoranthene (BkFA) | 207-08-9 | Rubber or plastic parts of toys and childcare articles that come into | 0.00005 mass\% of the plastic or rubber part | 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 (DEHP) | 117-81-7 | All | 0.1 mass\% in homogenous material | false | 0.00 |
| 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 (decabromodiphenyl | 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 | $\left\lvert\, \begin{aligned} & 10043-35-3 ; \\ & 11113-50-1 \end{aligned}\right.$ | 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 (CHR) | 218-01-9 | Rubber or plastic parts that come into direct, prolonged or repetitive | 0.0001 mass\% of the plastic or rubber part | false | 0.00 |
| Chrysen (CHR) | 218-01-9 | Rubber or plastic parts of toys and childcare articles that come into | 0.00005 mass\% of the plastic or rubber part | false | 0.00 |
| Chrysene | 218-01-9 | All | 0.1 mass\% of article | false | 0.00 |
| Cobalt dichloride | 7646-79-9 | All | 0.1 mass\% of article | false | 0.00 |
| Decamethylcyclopentasil oxane | 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 (DBAhA) | 53-70-3 | Rubber or plastic parts that come into direct, prolonged or repetitive | 0.0001 mass\% of the plastic or rubber part | false | 0.00 |
| Dibenzo[a,h]anthracene (DBAhA) | 53-70-3 | Rubber or plastic parts of toys and childcare articles that come into | 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) | $\begin{aligned} & \text { 68515-49-1; } \\ & 26761-40-0 \end{aligned}$ | All | Intentionally added | false | 0.00 |


| Diisohexyl phthalate | 71850-09-4 | All | 0.1 mass\% of article | false | 0.00 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Diisononyl phthalate (DINP) | $\begin{aligned} & 28553-12-0 ; \\ & 68515-48-0 \end{aligned}$ | All | Intentionally added | false | 0.00 |
| Diisopentyl phthalate | 605-50-5 | All | 0.1 mass\% of article | false | 0.00 |
| Dimethylfumarate (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 <br> 3,3'-[[1,1'-biphenyl]-4,4'-d <br> iylbis(azo)]bis(4-aminona | 573-58-0 | All | 0.1 mass\% of article | false | 0.00 |
| Disodium 4-amino-3-[[4'-[(2,4-diami nopheny) azo][1,1'-biphe | 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 |
| Dodecamethylcyclohexasi loxane | 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 | 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 Red 104) | 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 Yellow 34) | 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-isopentylphthala te | 776297-69-9 | All | 0.1 mass\% of article | false | 0.00 |
| Octamethylcyclotetrasilox ane | 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 hydroxyoctaoxodizincate dichromate | 11103-86-9 | All | 0.1 mass\% of article | false | 0.00 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Pyrene | 129-00-0 | 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 10-ethyl-4,4-dioctyl-7-oxo |  | All | 0.1 mass\% of article | false | 0.00 |
| Silicic acid (H2Si2O5), barium salt (1:1), lead-doped | 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 |
| Terphenyl, hydrogenated | 61788-32-7 | All | 0.1 mass\% of article | false | 0.00 |
| Tetraboron disodium heptaoxide, hydrate | 12267-73-1 | 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 |

