



Materials Declaration Form

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|------------------------|-------------------------------------|------------------------|--------------------------------------|
| IPC Form Type * | 1752 Distribute | Version | 2 |
| Sectionals * | Material Info Manufacturing Info | Subsectionals * | A-D <i>* : Required Field</i> |

| | | | |
|------------------------------------|--|-------------------------------|-----------------------------------|
| Supplier Information | | | |
| Company Name * | STMicroelectronics | Response Date * | 2017-11-22 |
| Contact Name * | Refer to Supplier Comment section | | Refer to Supplier Comment section |
| Authorized Representative * | Giuseppe Vitali Palma | Representative Title | ADG MD Champion |
| Representative Phone * | Refer to Supplier Comment section | Representative Email * | Refer to Supplier Comment section |
| Supplier Comment | Online Technical Support - STMicroelectronics : http://www.st.com/web/en/support/support.html | | |

Uncertainty Statement

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Legal Statement

| | | | |
|------------------------------|------|----------------------------|----------|
| Supplier Acceptance * | true | Legal Declaration * | Standard |
|------------------------------|------|----------------------------|----------|

Legal Statement

Supplier certifies that it gathered the provided information and such information is true and correct to the best of its knowledge and belief, as of the date that Supplier completes this form. Supplier acknowledges that Company will rely on this certification in determining the compliance of its products. Company acknowledges that Supplier may have relied on information provided by others in completing this form, and that Supplier may not have independently verified such information. However, in situations where Supplier has not independently verified information provided by others, Supplier agrees that, at a minimum, its suppliers have provided certifications regarding their contributions to the part(s), and those certifications are at least as omprehensive as the certification in this paragraph. If the Company and the Supplier enter into a written agreement with respect to the identified part(s), the terms and conditions of that agreement, including any warranty rights and/or remedies provided as part of that agreement, will be the sole and exclusive source of the Supplier's liability and the Company's remedies for issues that arise regarding information the Supplier provides in this form.

| Product | | | | |
|-----------------|---------------|-----------|------------------|------------|
| Mfr Item Number | Mfr Item Name | Version | Mfr Site | Date |
| STPSC6H065G-TR | 7SD2*3D101T6 | A | 3068 | 2017-11-22 |
| Amount | UoM | Unit type | ST ECOPACK Grade | |
| 1380.00 | mg | Each | ECOPACK1 | |

| Manufacturing information | | | | |
|---------------------------|---------------------|----------------------|---|--|
| J-STD-020 MSL Rating | Classification Temp | Nbr of Reflow Cycles |  life.augmented | |
| 1 | 245 | 3 | | |
| bulk Solder Termination | Terminal Plating | Terminal Base Alloy | Comment | |
| NA | Tin (Sn), matte | Copper Alloy | | |

| Package Designator | Size | Nbr of instances | Shape | |
|--------------------|---------------|------------------|-----------|--|
| SIP | 10.2-9.15-4.5 | 2 | gull wing | |
| Comment | D2PAK | | | |

| QueryList : RoHS Directive 2011/65/EU-July 2011 – Annex II amended by Directive 2015/863-April 2015 | |
|--|--|
| Query | Response |
| 1 - Product(s) meets EU RoHS requirement without any exemptions | FALSE |
| 2 - Product(s) meets EU RoHS requirements except lead in solder and this usage may qualify under the lead in solder '7b' exemption (other selected exemptions may apply) | FALSE |
| 3 - Product(s) meets EU RoHS requirements by application of the selected exemption(s) | TRUE |
| 4 - Product(s) does not meet EU RoHS requirements and is not under exemptions | FALSE |
| Exemption Id. | Description |
| 7a | Lead in high melting temperature type solders (i.e. lead- based alloys containing 85 % by weight or more lead) |

| Query : California Prop65 list, dated 27th January 2017 | | | |
|--|------------------------|---------------------------------------|----------------|
| Query | | | Response |
| 1 - The product does not contain identified substance from California Prop 65 List, no exposure to consumers is foreseen | | | FALSE |
| 2 - The product is containing below substance(s) from California Prop 65 List, no exposure to consumers is foreseen | | | TRUE |
| Substance | amount in product (mg) | Application | ppm in product |
| Nickel | 0.09 | Die back side metal - Leadframe metal | 64 |
| Lead | 1.68 | Soft solder | 1215 |
| Antimony trioxide | 7.12 | Molding compound | 5159 |
| | | | |

| QueryList : REACH-12th January 2017 | | | | |
|--|-------------------------|------------------------|-------------|----------------|
| Query | | | | Response |
| 1 - Product(s) does not contain REACH Substances Of Very High Concern above the limits per the definition within REACH | | | | true |
| CategoryLevel_Name | CategoryLevel_Threshold | amount in product (mg) | Application | ppm in product |
| | | | | |

| Material Composition Declaration : note : Substance present with less 0.001mg will not be declared in this document | | | | | | Mfr Item Name | 7SD2*3D101T6 | | | | | |
|--|---------------------------|---------|-----|----------|-------------------------|--------------------------|--------------|---------------------|---------|-----|---|--------------------------------|
| Homogeneous Material | Material Group | Mass | UoM | Level | Substance Category | Substance | CAS | Exempt | Mass | UoM | Concentration in homogeneous material (ppm) | Concentration in product (ppm) |
| Die | Other Inorganic Materials | 2.801 | mg | supplier | die | Silicium carbide | 409-21-2 | | 2.734 | mg | 976080 | 1981 |
| | | | | supplier | metallization | Aluminium (Al) | 7429-90-5 | | 0.016 | mg | 5711 | 12 |
| | | | | supplier | metallization | Gold (Au) | 7440-57-5 | | 0.002 | mg | 714 | 1 |
| | | | | supplier | metallization | Silver (Ag) | 7440-22-4 | | 0.027 | mg | 9639 | 20 |
| | | | | supplier | metallization | Titanium (Ti) | 7440-32-6 | | 0.001 | mg | 357 | 1 |
| | | | | supplier | back side metallization | Titanium (Ti) | 7440-32-6 | | 0.001 | mg | 357 | 1 |
| | | | | supplier | back side metallization | Gold (Au) | 7440-57-5 | | 0.002 | mg | 714 | 1 |
| | | | | supplier | back side metallization | Nickel (Ni) | 7440-02-0 | | 0.011 | mg | 3927 | 8 |
| | | | | supplier | polymer die coating | PIX1 Gamma-butyrolactone | 96-48-0 | | 0.007 | mg | 2499 | 5 |
| | | | | supplier | alloy | Copper (Cu) | 7440-50-8 | | 777.537 | mg | 998594 | 563433 |
| Leadframe | Copper & its alloys | 778.632 | mg | supplier | alloy | Iron (Fe) | 7439-89-6 | | 0.358 | mg | 460 | 258 |
| | | | | supplier | alloy | Iron Phosphide (FeP) | 26508-33-8 | | 0.654 | mg | 840 | 474 |
| | | | | supplier | metallization | Nickel (Ni) | 7440-02-0 | | 0.077 | mg | 99 | 56 |
| | | | | supplier | metallization | Phosphorus (P) | 12185-10-3 | | 0.006 | mg | 8 | 4 |
| | | | | supplier | solder | Lead (Pb) | 7439-92-1 | 7a-Lead in high met | 1.677 | mg | 955011 | 1215 |
| | | | | supplier | solder | Silver (Ag) | 7440-22-4 | | 0.044 | mg | 25057 | 32 |
| Soft solder | Solder | 1.756 | mg | supplier | solder | Tin (Sn) | 7440-31-5 | | 0.035 | mg | 19932 | 25 |
| | | | | supplier | wire | Aluminium (Al) | 7429-90-5 | | 1.447 | mg | 1000000 | 1049 |
| | | | | supplier | metallization | Phosphorus (P) | 12185-10-3 | | 0.006 | mg | 8 | 4 |
| Bonding wires | Other Inorganic Materials | 1.447 | mg | supplier | wire | Aluminium (Al) | 7429-90-5 | | 1.447 | mg | 1000000 | 1049 |
| | | | | supplier | mold compound | Silica, vitreous | 60676-86-0 | | 477.857 | mg | 806000 | 346273 |
| | | | | supplier | mold compound | Epoxy Cresol Novolak | 29690-82-2 | | 41.501 | mg | 70000 | 30073 |
| | | | | supplier | mold compound | Phenol resin | 9003-35-4 | | 23.715 | mg | 40000 | 17185 |
| | | | | supplier | mold compound | Biphenyl epoxy resin | 85954-11-6 | | 35.573 | mg | 60001 | 25778 |
| | | | | supplier | mold compound | Antimony Trioxide | 1309-64-4 | | 7.115 | mg | 12001 | 5156 |
| Encapsulation | Other Organic Materials | 592.875 | mg | supplier | mold compound | Brominated Epoxy Resin | 40039-93-8 | | 4.150 | mg | 7000 | 3007 |
| | | | | supplier | mold compound | Carbon black | 1333-86-4 | | 2.964 | mg | 4999 | 2148 |
| | | | | supplier | solder alloy | Tin (Sn) | 7440-31-5 | | 2.489 | mg | 1000000 | 1804 |
| Connections coating | Solder | 2.489 | mg | supplier | solder alloy | Tin (Sn) | 7440-31-5 | | 2.489 | mg | 1000000 | 1804 |