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URL for Additional Information

PART INFORMATION

Mfg Item Number

Mfg Item Name

TEPBGA PGE 516 27*27 P1

SUPPLIER Freescale Semiconductor Inc Company Name Company Unique ID 14-141-7928 Response Date 2017-12-05 Response Document ID 5193K11138D033A1.4 Contact Name Freescale Semiconductor Inc Contact Title Product Technical Support **Contact Phone** 1-800-521-6274 Contact Email support@freescale.com **Authorized Representative** Daniel Binyon Representative Title **EPP Customer Response** Representative Phone 512-895-3406 Representative Email eppanlst@freescale.com

DECLARATION

EU RoHS
Pb Free
Yes
HalogenFree
Plating Indicator
EU RoHS Exemption(s)

www.freescale.com

MANUFACTURING Mfg Item Number MPC8321VRADDCA Mfg Item Name TEPBGA PGE 516 27*27 P1 Version ALL Weight 4.374400 UoM Unit Volume EACH J-STD-020 MSL Rating 3 Peak Processing Temperature 260 C Max Time at Peak Temperature 40 seconds Number of Processing Cycles



| RoHS | | | | | | | | |
|---------------------------------------|--|--|--|--|--|--|--|--|
| RoHS Directive | 2011/65/EU | | | | | | | |
| RoHS Definition | RoHS Definition: Quantity limit of 0.1% by mass (1000 PPM) of homogeneous material for: Lead (Pb), Mercury, Hexavalent Chromium, Polybrominated Biphenyls (PBB), Polybrominated Diphenyl Ethers (PBDE) and quantity limit of 0.01% by mass (100 PPM) of homogeneous material of Cadmium | | | | | | | |
| RoHS Legal Definition | Please indicate whether any homogeneous material (as defined by the RoHS Directive, EU 2011/65/EU and implemented by the laws of the European Union member states) of the part(s) identified on this form contains lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls and/or polybrominated diphenyl ethers (each a RoHS restricted substance) in excess of the applicable quantity limit identified below. If a homogeneous material within the part(s) contains a RoHS restricted substance in excess of an applicable quantity limit, please indicate below which, if any, RoHS exemption you believe may apply. If the part is an assembly with lower level components, the declaration shall encompass all such components. Supplier certifies that it gathered the information it provides in this form using appropriate methods to ensure its accuracy and that 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 with European Union member state laws that implement the RoHS Directive. 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 comprehensive 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 Suppliers liability and the Companys remedies for issues that arise regarding information the Su | | | | | | | |
| RoHS Declaration | 1 - Item(s) do not contain RoHS restricted substances per the definition above | | | | | | | |
| Supplier Acceptance | Accepted | | | | | | | |
| Signature | Daniel Binyon | | | | | | | |
| Exemption List Version | 2012/51/EU | | | | | | | |
| List of Freescale Accepted Exemptions | 6(a): Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0.35% lead by weight | | | | | | | |
| | 6(b): Lead as an alloying element in aluminium containing up to 0.4% lead by weight | | | | | | | |
| | 6(c): Copper alloy containing up to 4% lead by weight | | | | | | | |
| | 7(a) : Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead) | | | | | | | |
| | 7(b): Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signaling, transmission, and network management for telecommunications | | | | | | | |
| | 7(c)-I: Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound | | | | | | | |
| | 7(c)-II: Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher | | | | | | | |
| | 7(c)-III: Lead in dielectric ceramic in capacitors for a rated voltage of less than 125 V AC or 250 V DC | | | | | | | |
| | 7(c)-IV: Lead in PZT based dielectric ceramic materials for capacitors being part of integrated circuits or discrete semiconductors | | | | | | | |
| | 15: Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages | | | | | | | |



| Homogeneous Material | Weight | | | | SubstanceWeight | UoM | SubPart PPM | SubPart% | ARTICLEPPM | ARTICLE% |
|-------------------------------|--------|--|--|------------|-----------------|-----|----------------|----------|------------|----------|
| poxy Die Attach | 0.01 | | | | | g | | | | |
| poxy Die Attach | | Solvents, additives, and other materials | 1,3,5-Triazine-2,4-diamine, 6-[2-(2-methyl-1H-imidazol-1-yl)ethyl] | 38668-46-1 | 0.00008451 | g | 8451 | 0.8451 | 19 | 0.0019 |
| poxy Die Attach | | Plastics/polymers | Phenolic Polymer Resin, Epikote 155 | 9003-36-5 | 0.00129579 | g | 129579 | 12.9579 | 296 | 0.0296 |
| poxy Die Attach | | Plastics/polymers | 4,4'-Dihydroxydiphenyl | 92-88-6 | 0.00008451 | g | 8451 | 0.8451 | 19 | 0.0019 |
| poxy Die Attach | | Metals | Silver, metal | 7440-22-4 | 0.00853519 | g | 853519 | 85.3519 | 1951 | 0.1951 |
| ganic Substrate, Halogen-fre | 2.0583 | | | | | g | | | | |
| ganic Substrate, Halogen-fre | | Solvents, additives, and other materials | Proprietary Material-Other acrylates | | 0.02624744 | g | 12752 | 1.2752 | 6000 | 0.6 |
| rganic Substrate, Halogen-fre | | Metals | Aluminum Oxides (Al2O3) | 1344-28-1 | 0.14018052 | g | 68105 | 6.8105 | 32045 | 3.2045 |
| rganic Substrate, Halogen-fre | | Metals | Barium | 7440-39-3 | 0.01566572 | g | 7611 | 0.7611 | 3581 | 0.3581 |
| ganic Substrate, Halogen-fre | | Metals | Copper, metal | 7440-50-8 | 1.33007552 | g | 646201 | 64.6201 | 304058 | 30.4058 |
| ganic Substrate, Halogen-fre | | Plastics/polymers | Other Epoxy resins | - | 0.16787906 | g | 81562 | 8.1562 | 38377 | 3.8377 |
| ganic Substrate, Halogen-fre | | Metals | Gold, metal | 7440-57-5 | 0.00321301 | g | 1561 | 0.1561 | 734 | 0.0734 |
| ganic Substrate, Halogen-fre | | Nickel (external applications only) | Nickel | 7440-02-0 | 0.01904339 | g | 9252 | 0.9252 | 4353 | 0.4353 |
| ganic Substrate, Halogen-fre | | Solvents, additives, and other materials | Other organic compounds. | - | 0.00292279 | g | 1420 | 0.142 | 668 | 0.0668 |
| ganic Substrate, Halogen-fre | | Glass | Other glass compounds (without lead, chromium, cadmium or mercury) | - | 0.30235192 | g | 146894 | 14.6894 | 69118 | 6.9118 |
| ganic Substrate, Halogen-fre | | Solvents, additives, and other materials | Other miscellaneous substances (less than 5%). | - | 0.01460776 | g | 7097 | 0.7097 | 3339 | 0.3339 |
| ganic Substrate, Halogen-fre | | Glass | Dimethyl silicone polymer with silica | 67762-90-7 | 0.03611287 | g | 17545 | 1.7545 | 8255 | 0.8255 |
| der Balls - Pb Free, Sn/Ag | 0.4272 | | | | | g | | | | |
| lder Balls - Pb Free, Sn/Ag | | Metals | Silver, metal | 7440-22-4 | 0.014952 | g | 35000 | 3.5 | 3418 | 0.3418 |
| lder Balls - Pb Free, Sn/Ag | | Metals | Tin, metal | 7440-31-5 | 0.412248 | g | 965000 | 96.5 | 94241 | 9.4241 |
| Encapsulant, Halogen-free | 1.8139 | | | | | g | | | | |
| e Encapsulant, Halogen-free | | Plastics/polymers | Other Epoxy resins | - | 0.108834 | g | 60000 | 6 | 24879 | 2.4879 |
| Encapsulant, Halogen-free | | Solvents, additives, and other materials | Carbon Black | 1333-86-4 | 0.018139 | g | 10000 | 1 | 4146 | 0.4146 |
| Encapsulant, Halogen-free | | Solvents, additives, and other materials | Other inorganic compounds. | - | 0.036278 | g | 20000 | 2 | 8293 | 0.8293 |
| e Encapsulant, Halogen-free | | Plastics/polymers | Other phenolic resins | - | 0.090695 | g | 50000 | 5 | 20733 | 2.0733 |
| Encapsulant, Halogen-free | | Glass | Silica, vitreous | 60676-86-0 | 1.559954 | g | 860000 | 86 | 356620 | 35.662 |
| nding Wire, Copper | 0.025 | | | | | g | | | | |
| nding Wire, Copper | | Metals | Copper, metal | 7440-50-8 | 0.02425 | g | 970000 | 97 | 5543 | 0.5543 |
| nding Wire, Copper | | Solvents, additives, and other materials | Other miscellaneous substances (less than 5%). | - | 0.00075 | g | 30000 | 3 | 171 | 0.0171 |
| icon Semiconductor Die | 0.04 | | , and any | | | g | | | | |
| licon Semiconductor Die | | Solvents, additives, and other materials | Other miscellaneous substances (less than 5%). | | 0.0008 | g | 20000 | 2 | 182 | 0.0182 |
| licon Semiconductor Die | | Glass | Silicon, doped | | 0.0392 | - | 980000 | 00 | 8961 | 0.8961 |



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