SUPPLIER

URL for Additional Information

 PART INFORMATION

 Mfg Item Number
 SPC5676RDK3MVU1

 Mfg Item Name
 TEPBGA 416 27*27*1.25 P1

Company Name

Company Unique ID

Response Date

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Fig. 2014-141

5252A1.11 Response Document ID Contact Name Freescale Semiconductor Inc Contact Title Product Technical Support **Contact Phone** 1-800-521-6274 Contact Email support@freescale.com Daniel Binyon **Authorized Representative** 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)

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MANUFACTURING Mfg Item Number SPC5676RDK3MVU1 Mfg Item Name TEPBGA 416 27*27*1.25 P1 Version ALL Weight 2.861750 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 3

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, 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 Supplier provides in this form. In the absence of such written agreement, the warranty rights and/or remedies of Suppliers Standard Terms and Co
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
LAGITIPHOTIS	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	SubstanceClass	Substance	CAS	Exemption	SubstanceWeight	UoM	SubPart PPM	SubPart%	ARTICLEPPM	ARTICLE%
									Subrait/6	AKHOLLI-PM	
Epoxy Die Attach	0.0174						g				
Epoxy 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		0.00014705	g	8451	0.8451	51	0.0051
Epoxy Die Attach		Plastics/polymers	Phenolic Polymer Resin, Epikote 155	9003-36-5		0.00225467	g	129579	12.9579	787	0.0787
Epoxy Die Attach		Plastics/polymers	4,4'-Dihydroxydiphenyl	92-88-6		0.00014705	g	8451	0.8451	51	0.0051
Epoxy Die Attach		Metals	Silver, metal	7440-22-4		0.01485123	g	853519	85.3519	5189	0.5189
Solder Balls - Pb Free, Sn/Ag	0.3187						g				
Solder Balls - Pb Free, Sn/Ag		Metals	Silver, metal	7440-22-4		0.0111545	g	35000	3.5	3897	0.3897
Solder Balls - Pb Free, Sn/Ag		Metals	Tin, metal	7440-31-5		0.3075455	g	965000	96.5	107467	10.7467
Bonding Wire	0.013						g				
Bonding Wire		Metals	Gold, metal	7440-57-5		0.013	g	1000000	100	4542	0.4542
Die Encapsulant, Halogen-free	0.9633						g				
Die Encapsulant, Halogen-free		Plastics/polymers	Other Epoxy resins	-		0.057798	g	60000	6	20196	2.0196
Die Encapsulant, Halogen-free		Solvents, additives, and other materials	Carbon Black	1333-86-4		0.009633	g	10000	1	3366	0.3366
Die Encapsulant, Halogen-free		Solvents, additives, and other materials	Other inorganic compounds.	-		0.019266	g	20000	2	6732	0.6732
Die Encapsulant, Halogen-free		Plastics/polymers	Other phenolic resins	-		0.048165	g	50000	5	16830	1.683
Die Encapsulant, Halogen-free		Glass	Silica, vitreous	60676-86-0		0.828438	g	860000	86	289486	28.9486
Organic Substrate	1.5074						g				
Organic Substrate		Solvents, additives, and other materials	Other acrylates	-		0.01837822	g	12192	1.2192	6422	0.6422
Organic Substrate		Metals	Aluminum Oxides (Al2O3)	1344-28-1		0.07871341	g	52218	5.2218	27505	2.7505
Organic Substrate		Metals	Barium	7440-39-3		0.0165211	g	10960	1.096	5773	0.5773
Organic Substrate		Metals	Copper, metal	7440-50-8		1.02876434	g	682476	68.2476	359499	35.9499
Organic Substrate		Metals	Gold, metal	7440-57-5		0.00170336	g	1130	0.113	595	0.0595
Organic Substrate		Nickel (external applications only)	Nickel	7440-02-0		0.0117743	g	7811	0.7811	4114	0.4114
Organic Substrate		Solvents, additives, and other materials	Other organic Silicon Compounds	-		0.00050196	g	333	0.0333	175	0.0175
Organic Substrate		Glass	Fibrous-glass-wool	65997-17-3		0.16961114	g	112519	11.2519	59268	5.9268
Organic Substrate		Glass	Silicon dioxide	7631-86-9		0.09682633	g	64234	6.4234	33834	3.3834
Organic Substrate		Solvents, additives, and other materials	Proprietary Material-Other miscellaneous substances.	-		0.01241042	g	8233	0.8233	4336	0.4336
Organic Substrate		Plastics/polymers	Other Non-halogenated Epoxy resins	-		0.07219542	g	47894	4.7894	25227	2.5227
Silicon Semiconductor Die	0.04195						g				
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-		0.000839	g	20000	2	293	0.0293
Silicon Semiconductor Die		Glass	Silicon, doped	-		0.041111	g	980000	98	14365	1.4365

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http://www.NXP.com/files/abstract/corporate/ehs_epp/IPC-1752-2_v1.1_MCD_Template.pdf

LINKS TO BLANK IPC1752 FORMS Blank IPC1752 v1.1 Form

IPC1752 XML LINKS

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