PART INFORMATION

 Mfg Item Number
 MC13892CJVKR2

 Mfg Item Name
 MAPBGA 139 7*7*0.7P0.5

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SUPPLIER
Company Name Freescale Semiconductor Inc

Company Unique ID 14-141-7928
Response Date 2015-02-17

Response Document ID 6434K11274D003A1.13 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

URL for Additional Information

EU RoHS Exemption(s)

MANUFACTURING

Mfg Item Number

MC13892CJVKR2

MAPRGA 139 7*7*0 7P0

MAPBGA 139 7*7*0.7P0.5 Mfg Item Name Version ALL Weight 0.167250 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
Zampuona	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 Exemp	tion SubstanceWeight	UoM	SubPart PPM	SubPart%	ARTICLEPPM	ARTICLE%
Die Encapsulant	0.0621					g				
Die Encapsulant		Metals	Aluminum, metal	7429-90-5	0.00191864	g	30896	3.0896	11471	1.1471
Die Encapsulant		Plastics/polymers	Proprietary Material-Other Epoxy resins	-	0.00191864	g	30896	3.0896	11471	1.1471
Die Encapsulant		Solvents, additives, and other materials	Carbon Black	1333-86-4	0.00019189	g	3090	0.309	1147	0.1147
Die Encapsulant		Solvents, additives, and other materials	Other organic phosphorous compounds	-	0.00019189	g	3090	0.309	1147	0.1147
Die Encapsulant		Plastics/polymers	Proprietary Material-Other phenolic resins	-	0.00351747	g	56642	5.6642	21031	2.1031
Die Encapsulant		Glass	Silica, vitreous	60676-86-0	0.05436147	g	875386	87.5386	325048	32.5048
Non-Conductive Epoxy/Adhesive	0.001					g				
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Proprietary Material-Other Epoxy resins	-	0.000075	g	75000	7.5	448	0.0448
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Crosslinked acrylate polymer	25767-43-5	0.0002	g	200000	20	1195	0.1195
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Other polymers	-	0.000075	g	75000	7.5	448	0.0448
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Proprietary Material-Other polymers	-	0.0002	g	200000	20	1195	0.1195
Non-Conductive Epoxy/Adhesive		Glass	Silica, vitreous	60676-86-0	0.00045	g	450000	45	2690	0.269
Solder Balls - Lead Free	0.0151					g				
Solder Balls - Lead Free		Antimony/Antimony Compounds	Antimony (metallic)	7440-36-0	0.0000098	g	65	0.0065	5	0.0005
Solder Balls - Lead Free		Arsenic/Arsenic Compounds	Arsenic	7440-38-2	0.00000048	g	32	0.0032	2	0.0002
Solder Balls - Lead Free		Bismuth/Bismuth Compounds	Bismuth	7440-69-9	0.00000038	g	25	0.0025	2	0.0002
Solder Balls - Lead Free		Metals	Copper, metal	7440-50-8	0.00007141	g	4729	0.4729	426	0.0426
Solder Balls - Lead Free		Metals	Iron, metal	7439-89-6	0.0000005	g	33	0.0033	2	0.0002
Solder Balls - Lead Free		Lead/Lead Compounds	Lead	7439-92-1	0.00000406	g	269	0.0269	24	0.0024
Solder Balls - Lead Free		Nickel (external applications only)	Nickel	7440-02-0	0.00000053	g	35	0.0035	3	0.0003
Solder Balls - Lead Free		Metals	Silver, metal	7440-22-4	0.0001401	g	9278	0.9278	837	0.0837
Solder Balls - Lead Free		Metals	Tin, metal	7440-31-5	0.01488059	g	985470	98.547	88972	8.8972
Solder Balls - Lead Free		Metals	Germanium	7440-56-4	0.00000097	g	64	0.0064	5	0.0005
Organic Substrate, Halogen-fre	0.0341					g				
Organic Substrate, Halogen-fre		Metals	Barium sulfate	7727-43-7	0.00070966	g	20811	2.0811	4243	0.4243
Organic Substrate, Halogen-fre		Metals	Copper, metal	7440-50-8	0.01512369	g	443510	44.351	90425	9.0425
Organic Substrate, Halogen-fre		Plastics/polymers	Epikote 862	28064-14-4	0.00259296	g	76040	7.604	15503	1.5503
Organic Substrate, Halogen-fre		Metals	Gold, metal	7440-57-5	0.00010946	g	3210	0.321	654	0.0654
Organic Substrate, Halogen-fre		Nickel (external applications only)	Nickel	7440-02-0	0.00063709	g	18683	1.8683	3809	0.3809
Organic Substrate, Halogen-fre		Plastics/polymers	Phenol, polymer with formaldehyde	9003-35-4	0.00140161	g	41103	4.1103	8380	0.838
Organic Substrate, Halogen-fre		Glass	Fibrous-glass-wool	65997-17-3	0.00858485	g	251755	25.1755	51329	5.1329
Organic Substrate, Halogen-fre		Glass	Silicon dioxide	7631-86-9	0.00073584	g	21579	2.1579	4399	0.4399
Organic Substrate, Halogen-fre		Metals	Aluminum Hydroxide	21645-51-2	0.00420484	g	123309	12.3309	25141	2.5141
Silicon Semiconductor Die	0.05445					g				
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-	0.001089	g	20000	2	6511	0.6511
Silicon Semiconductor Die		Glass	Silicon, doped	-	0.053361	g	980000	98	319049	31.9049
Bonding Wire, PdCu	0.0005					g				
Bonding Wire, PdCu		Metals	Copper, metal	7440-50-8	0.0004865	g	972995	97.2995	2908	0.2908
Bonding Wire, PdCu		Metals	Palladium, metal	7440-05-3	0.0000135	g	27005	2.7005	80	0.008

LINKS

MCD LINK

http://www.freescale.com Freescale website

GENERAL ENVIRONMENTAL COMPLIANCE LINKS

http://www.freescale.com/files/abstract/corporate/ehs_epp/ENV_ROHS_Freescale_Response.pdf RoHS signed letter China RoHS http://www.freescale.com/chinarohs

REACH signed letter $http://www.freescale.com/files/abstract/corporate/ehs_epp/ENV_REACH_Freescale_Response.pdf$

ELV signed letter http://www.freescale.com/files/abstract/corporate/ehs_epp/ENV_ELV_Freescale_Reponse.pdf **Conflict Minerals statement** $http://www.freescale.com/files/abstract/corporate/ehs_epp/ENV_CONFLICT_METAL_Freescale_Response.pdf$

FREESCALE ENVIRONMENTAL INFORMATION

EPP website http://www.freescale.com/epp

FAQ http://www.freescale.com/webapp/sps/site/overview.jsp?code=ENVIRON_FAQ

Technical Service Request

LINKS TO BLANK IPC1752 FORMS

https://www.freescale.com/webapp/servicerequest.create_SR.framework?defaultCategory=Hardware Product Support&defaultTopic=Environmentally Preferred Prod

Blank IPC1752 v1.1 Form http://www.freescale.com/files/abstract/corporate/ehs_epp/IPC-1752-2_v1.1_MCD_Template.pdf IPC1752 XML LINKS

http://www.freescale.com/mcds/MC13892CJVKR2_IPC1752_v11.xml

http://www.freescale.com/mcds/MC13892CJVKR2_IPC1752A.xml