PART INFORMATION

 Mfg Item Number
 MCIMX351AJQ5C

 Mfg Item Name
 MAPBGA 400 17*17*0.8P0.8

SUPPLIER
Company Name Freescale Semiconductor Inc

Company Unique ID 14-141-7928 Response Date 2015-07-31 Response Document ID 5284K10971D043A1.19 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 eppanIst@freescale.com
URL for Additional Information www.freescale.com

Number of Processing Cycles

DECLARATION

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

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MANUFACTURING
Mfg Item Number
MCIMX351AJQ5C

Mfg Item NameMAPBGA 400 17*17*0.8P0.8VersionALLWeight0.838700UoMgUnit VolumeEACHJ-STD-020 MSL Rating3Peak Processing Temperature260 CMax Time at Peak Temperature40 seconds

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							
Exemptions	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%
Non-Conductive Epoxy/Adhesive	0.0043						g				
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Proprietary Material-Other Epoxy resins	-		0.0003225	g	75000	7.5	384	0.0384
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Crosslinked acrylate polymer	25767-43-5		0.00086	g	200000	20	1025	0.1025
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Other polymers	-		0.0003225	g	75000	7.5	384	0.0384
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Proprietary Material-Other polymers	-		0.00086	g	200000	20	1025	0.1025
Non-Conductive Epoxy/Adhesive		Glass	Silica, vitreous	60676-86-0		0.001935	g	450000	45	2307	0.2307
Solder Balls - Lead Free	0.1034						g				
Solder Balls - Lead Free		Metals	Aluminum, metal	7429-90-5		0.00000052	g	5	0.0005	0	0
Solder Balls - Lead Free		Antimony/Antimony Compounds	Antimony (metallic)	7440-36-0		0.0000838	g	81	0.0081	9	0.0009
Solder Balls - Lead Free		Arsenic/Arsenic Compounds	Arsenic	7440-38-2		0.00000393	g	38	0.0038	4	0.0004
Solder Balls - Lead Free		Bismuth/Bismuth Compounds	Bismuth	7440-69-9		0.00000403	g	39	0.0039	4	0.0004
Solder Balls - Lead Free		Metals	Copper, metal	7440-50-8		0.00052507	g	5078	0.5078	626	0.0626
Solder Balls - Lead Free		Solvents, additives, and other materials	Phosphorus, elemental (not containing red allotrope)	7723-14-0		0.00000414	g	40	0.004	4	0.0004
Solder Balls - Lead Free		Metals	Iron, metal	7439-89-6		0.00000352	g	34	0.0034	4	0.0004
Solder Balls - Lead Free		Lead/Lead Compounds	Lead	7439-92-1		0.00002316	g	224	0.0224	27	0.0027
Solder Balls - Lead Free		Nickel (external applications only)	Nickel	7440-02-0		0.00000403	g	39	0.0039	4	0.0004
Solder Balls - Lead Free		Metals	Silver, metal	7440-22-4		0.0009336	g	9029	0.9029	1113	0.1113
Solder Balls - Lead Free		Metals	Tin, metal	7440-31-5		0.10188207	g	985320	98.532	121476	12.1476
Solder Balls - Lead Free		Metals	Zinc, metal	7440-66-6		0.00000062	g	6	0.0006	0	0
Solder Balls - Lead Free		Metals	Germanium	7440-56-4		0.00000693	g	67	0.0067	8	0.0008
Silicon Semiconductor Die	0.0335						g				
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-		0.00067	g	20000	2	798	0.0798
Silicon Semiconductor Die		Glass	Silicon, doped	-		0.03283	g	980000	98	39143	3.9143
Die Encapsulant, Halogen-free	0.3984						g				
Die Encapsulant, Halogen-free		Plastics/polymers	Other Epoxy resins	-		0.023904	g	60000	6	28501	2.8501
Die Encapsulant, Halogen-free		Solvents, additives, and other materials	Carbon Black	1333-86-4		0.003984	g	10000	1	4750	0.475
Die Encapsulant, Halogen-free		Solvents, additives, and other materials	Other inorganic compounds.	-		0.007968	g	20000	2	9500	0.95
Die Encapsulant, Halogen-free		Plastics/polymers	Other phenolic resins	-		0.01992	g	50000	5	23751	2.3751
Die Encapsulant, Halogen-free		Glass	Silica, vitreous	60676-86-0		0.342624	g	860000	86	408534	40.8534
Organic Substrate	0.294						g				
Organic Substrate		Metals	Barium sulfate	7727-43-7		0.01127049	g	38335	3.8335	13438	1.3438
Organic Substrate		Metals	Copper, metal	7440-50-8		0.144085	g	490085	49.0085	171795	17.1795
Organic Substrate		Metals	Gold, metal	7440-57-5		0.01538237	g	52321	5.2321	18340	1.834
Organic Substrate		Metals	Talc	14807-96-6		0.00709775	g	24142	2.4142	8462	0.8462
Organic Substrate		Metals	Nickel bis(sulphamidate)	13770-89-3		0.0404397	g	137550	13.755	48217	4.8217
Organic Substrate		Glass	Fibrous-glass-wool	65997-17-3		0.01368452	g	46546	4.6546	16316	1.6316
Organic Substrate		Glass	Silicon dioxide	7631-86-9		0.06204017	g	211021	21.1021	73971	7.3971
Bonding Wire, PdCu	0.0051						g				
Bonding Wire, PdCu		Metals	Copper, metal	7440-50-8		0.00496227	g	972995	97.2995	5916	0.5916
Bonding Wire, PdCu		Metals	Palladium, metal	7440-05-3		0.00013773	g	27005	2.7005	164	0.0164

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/MCIMX351AJQ5C_IPC1752_v11.xml

http://www.freescale.com/mcds/MCIMX351AJQ5C_IPC1752A.xml