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Mfg Item Number	MPC8360VVAGDGA	
Mfg Item Name	TBGA740 37.5*37.5*1.69P1	
Nig item Name		
SUPPLIER		
Company Name	Freescale Semiconductor Inc	
Company Unique ID	14-141-7928	
Response Date	2016-12-27	
Response Document ID	5101K11210D007A1.39	
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	
URL for Additional Information	www.freescale.com	
DECLARATION		
EU RoHS	Yes	

EU ROHS	Yes
Pb Free	Yes
HalogenFree	Yes
Plating Indicator	e2
EU RoHS Exemption(s)	

MANUFACTURING	
Mfg Item Number	MPC8360VVAGDGA
Mfg Item Name	TBGA740 37.5*37.5*1.69P1
Version	ALL
Weight	10.796300
UoM	g
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 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 provides as part of that agreement, will be the sole and exclusive source of the Suppliers liability and the Company's 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 Supplier Standard Terms and Conditions of Sale ap					
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					



MATERIAL COMPOSITION

Homogeneous Material	Weight	SubstanceClass	Substance	CAS	Exemption	SubstanceWeight	UoM	SubPart PPM	SubPart%	ARTICLEPPM	ARTICLE%
Epoxy Die Attach	0.0417						a				
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		0.00035241	g	8451	0.8451	32	0.0032
Epoxy Die Attach		Plastics/polymers	Phenolic Polymer Resin, Epikote 155	9003-36-5		0.00540344	g	129579	12.9579	500	0.05
Epoxy Die Attach		Plastics/polymers	4,4'-Dihydroxydiphenyl	92-88-6		0.00035241	g	8451	0.8451	32	0.0032
Epoxy Die Attach		Metals	Silver, metal	7440-22-4		0.03559174	g	853519	85.3519	3296	0.3296
Solder Balls - Pb Free, Sn/Ag	0.8196						g				
Solder Balls - Pb Free, Sn/Ag		Metals	Aluminum, metal	7429-90-5		0.00002623	g	32	0.0032	2	0.0002
Solder Balls - Pb Free, Sn/Ag		Antimony/Antimony Compounds	Antimony (metallic)	7440-36-0		0.00010245	g	125	0.0125	9	0.0009
Solder Balls - Pb Free, Sn/Ag		Arsenic/Arsenic Compounds	Arsenic	7440-38-2		0.00006147	g	75	0.0075	5	0.0005
Solder Balls - Pb Free, Sn/Ag		Bismuth/Bismuth Compounds	Bismuth	7440-69-9		0.00015408	g	188	0.0188	14	0.0014
Solder Balls - Pb Free, Sn/Ag		Cadmium/Cadmium Compounds	Cadmium	7440-43-9		0.00001065	g	13	0.0013	0	0
Solder Balls - Pb Free, Sn/Ag		Metals	Copper, metal	7440-50-8		0.00005163	g	63	0.0063	4	0.0004
Solder Balls - Pb Free, Sn/Ag		Metals	Gold, metal	7440-57-5		0.00005163	g	63	0.0063	4	0.0004
Solder Balls - Pb Free, Sn/Ag		Metals	Indium, metal	7440-74-6		0.00005163	g	63	0.0063	4	0.0004
Solder Balls - Pb Free, Sn/Ag		Solvents, additives, and other materials	Sulfur	7704-34-9		0.00000574	g	7	0.0007	0	0
Solder Balls - Pb Free, Sn/Ag		Solvents, additives, and other materials	Phosphorus, elemental (not containing red allotrope)	7723-14-0		0.00005163	g	63	0.0063	4	0.0004
Solder Balls - Pb Free, Sn/Ag		Metals	Iron, metal	7439-89-6		0.00009016	g	110	0.011	8	0.0008
Solder Balls - Pb Free, Sn/Ag		Lead/Lead Compounds	Lead	7439-92-1		0.00025653	g	313	0.0313	23	0.0023
Solder Balls - Pb Free, Sn/Ag		Nickel (external applications only)	Nickel	7440-02-0		0.00002623	g	32	0.0032	2	0.0002
Solder Balls - Pb Free, Sn/Ag		Metals	Silver, metal	7440-22-4		0.02868764	g	35002	3.5002	2657	0.2657
Solder Balls - Pb Free, Sn/Ag		Metals	Tin, metal	7440-31-5		0.78995673	g	963832	96.3832	73169	7.3169
Solder Balls - Pb Free, Sn/Ag		Metals	Zinc, metal	7440-66-6		0.00001557	g	19	0.0019	1	0.0001
Die Encapsulant, Halogen-free	0.4517						g				
Die Encapsulant, Halogen-free		Plastics/polymers	Other Epoxy resins	-		0.027102	g	60000	6	2510	0.251
Die Encapsulant, Halogen-free		Solvents, additives, and other materials	Carbon Black	1333-86-4		0.004517	g	10000	1	418	0.0418
Die Encapsulant, Halogen-free		Solvents, additives, and other materials	Other inorganic compounds.	-		0.009034	g	20000	2	836	0.0836
Die Encapsulant, Halogen-free		Plastics/polymers	Other phenolic resins	-		0.022585	g	50000	5	2091	0.2091
Die Encapsulant, Halogen-free		Glass	Silica, vitreous	60676-86-0		0.388462	g	860000	86	35981	3.5981
Organic Substrate	9.4083						g				
Organic Substrate		Metals	Aluminum, metal	7429-90-5		0.0004516	g	48	0.0048	41	0.0041
Organic Substrate		Metals	Barium sulfate	7727-43-7		0.00313296	g	333	0.0333	290	0.029
Organic Substrate		Metals	Copper, metal	7440-50-8		9.13004014	g	970424	97.0424	845687	84.5687
Organic Substrate		Metals	Cupric oxide	1317-38-0		0.05682613	g	6040	0.604	5263	0.5263
Organic Substrate		Metals	Gold, metal	7440-57-5		0.00280367	g	298	0.0298	259	0.0259
Organic Substrate		Metals	Manganese, metal	7439-96-5		0.0004516	g	48	0.0048	41	0.0041
Organic Substrate		Nickel (external applications only)	Nickel	7440-02-0		0.01478985	g	1572	0.1572	1369	0.1369
Organic Substrate		Solvents, additives, and other materials	Other organic compounds.	-		0.03624077	g	3852	0.3852	3356	0.3356
Organic Substrate		Solvents, additives, and other materials	Other organic Silicon Compounds	-		0.00020698	g	22	0.0022	19	0.0019
Organic Substrate		Metals	Zirconium, metal	7440-67-7		0.00905078	g	962	0.0962	838	0.0838
Organic Substrate		Plastics/polymers	Other Non-halogenated Epoxy resins	-		0.03085922	g	3280	0.328	2858	0.2858
Organic Substrate		Plastics/polymers	Other non-halogenated polymers	-		0.1234463	g	13121	1.3121	11434	1.1434
Silicon Semiconductor Die	0.05						g				
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-		0.001	g	20000	2	92	0.0092
Silicon Semiconductor Die		Glass	Silicon, doped	-		0.049	g	980000	98	4538	0.4538
Bonding Wire, PdCu	0.025						g				
Bonding Wire, PdCu		Metals	Copper, metal	7440-50-8		0.02440875	g	976350	97.635	2260	0.226
Bonding Wire, PdCu		Metals	Gold, metal	7440-57-5		0.0000424	g	1696	0.1696	3	0.0003
Bonding Wire, PdCu		Metals	Palladium, metal	7440-05-3		0.00054885	-	21954	2.1954		0.005



LINKS	
MCD LINK	
NXP website	http://www.nxp.com
GENERAL ENVIRONMENTAL COMPLIANCE LINKS	
RoHS signed letter	http://www.nxp.com/files/corporate/doc/support_info/NXP-ROHS-DECLARATION.pdf
China RoHS	http://www.nxp.com/about/corporate-responsibility/environmental-compliance-organization/china-rohs:ENV_CHINA_ROHS_STRATEGY
REACH signed letter	http://www.nxp.com/files/corporate/doc/support_info/NXP-REACH-STATEMENT.pdf
ELV signed letter	http://www.nxp.com/files/corporate/doc/support_info/NXP-ELV-STATEMENT.pdf
Conflict Minerals statement	http://www.nxp.com/files/corporate/doc/support_info/NXP-STATEMENT-CONFLICT-MINERALS.pdf
NXP ENVIRONMENTAL INFORMATION	
Environmental Compliance website	http://www.nxp.com/about/corporate-responsibility/environmental-compliance-organization:ABUENVPRFPRDX
FAQ	http://www.nxp.com/about/corporate-responsibility/environmental-compliance-organization/eco-product-faqs:ENVIRON_FAQ
Technical Service Request	http://www.nxp.com/support/sales-and-support:SUPPORTHOME
LINKS TO BLANK IPC1752 FORMS	
Blank IPC1752 v1.1 Form	http://www.NXP.com/files/abstract/corporate/ehs_epp/IPC-1752-2_v1.1_MCD_Template.pdf

