

PART INFORMATION		
Mfg Item Number	MPC8572EPXAVNE	
Mfg Item Name	FCPBGA 1023 33SQ2.75P1.0	
SUPPLIER		
Company Name	Freescale Semiconductor Inc	
Company Unique ID	14-141-7928	
Response Date	2018-01-08	
Response Document ID	8443K00211D005A1.22	
Contact Name	Freescale Semiconductor Inc	
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URL for Additional Information	www.freescale.com	
DECLARATION		
EU RoHS	No	
Pb Free	No	
HalogenFree	Yes	
Plating Indicator	e0	
EU RoHS Exemption(s)	15	
MANUFACTURING		
Mfg Item Number	MPC8572EPXAVNE	
Mfg Item Name	FCPBGA 1023 33SQ2.75P1.0	
Version	ALL	
Weight	13.095900	
UoM	g	
Unit Volume	EACH	
J-STD-020 MSL Rating	3	
Peak Processing Temperature	245 C	
Max Time at Peak Temperature	30 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 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 Conditions of Sale applicable to such part(s) shall apply.
RoHS Declaration	3 - Item(s) does not contain RoHS restricted substances per the definition above except for lead in solders and selected exemptions, if any
Supplier Acceptance	Accepted
Signature	Daniel Binyon
Exemption List Version	2012/51/EU
	15:Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages
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%
Capacitor_0306	0.0782						g					
Capacitor_0306		Metals	Copper, metal	7440-50-8		0.0107916	g	138000	13.8		824	0.0824
Capacitor_0306		Nickel (external applications only)	Nickel	7440-02-0		0.015249	g	195000	19.5		1164	0.1164
Capacitor_0306		Metals	Tin, metal	7440-31-5		0.0010166	g	13000	1.3		77	0.0077
Capacitor_0306		Metals	Barium titanate	12047-27-7		0.0511428	g	654000	65.4		3905	0.3905
Solder Balls - Low Lead	0.9636						g					
Solder Balls - Low Lead		Lead/Lead Compounds	Lead	7439-92-1		0.346896	g	360000	36		26488	2.6488
Solder Balls - Low Lead		Metals	Silver, metal	7440-22-4		0.019272	g	20000	2		1471	0.1471
Solder Balls - Low Lead		Metals	Tin, metal	7440-31-5		0.597432	g	620000	62		45619	4.5619
Capacitor Solder Paste	0.0534						g					
Capacitor Solder Paste		Metals	Copper, metal	7440-50-8		0.000267	g	5000	0.5		20	0.002
Capacitor Solder Paste		Lead/Lead Compounds	Lead	7439-92-1		0.00000443	g	83	0.0083		0	0
Capacitor Solder Paste		Metals	Silver, metal	7440-22-4		0.001602	g	30000	3		122	0.0122
Capacitor Solder Paste		Metals	Tin, metal	7440-31-5		0.05152657	g	964917	96.4917		3934	0.3934
High Pb Bumped Semiconductor D	0.3473				15		g					
High Pb Bumped Semiconductor D		Lead/Lead Compounds	Lead	7439-92-1		0.03270767	g	94177	9.4177		2497	0.2497
High Pb Bumped Semiconductor D		Nickel (external applications only)	Nickel	7440-02-0		0.00028652	g	825	0.0825		21	0.0021
High Pb Bumped Semiconductor D		Metals	Tin, metal	7440-31-5		0.00172122	g	4956	0.4956		131	0.0131
High Pb Bumped Semiconductor D		Metals	Titanium, metal	7440-32-6		0.00001459	g	42	0.0042		1	0.0001
High Pb Bumped Semiconductor D		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-		0.0031257	g	9000	0.9		238	0.0238
High Pb Bumped Semiconductor D		Glass	Silicon, doped	-		0.3094443	g	891000	89.1		23629	2.3629
Substrate Assembly, Halogen-fr	4.0514				15		g					
Substrate Assembly, Halogen-fr		Arsenic/Arsenic Compounds	Arsenic	7440-38-2		0.00002836	g	7	0.0007		2	0.0002
Substrate Assembly, Halogen-fr		Metals	Barium sulfate	7727-43-7		0.01685788	g	4161	0.4161		1287	0.1287
Substrate Assembly, Halogen-fr		Metals	Copper, metal	7440-50-8		1.37619172	g	339683	33.9683		105085	10.5085
Substrate Assembly, Halogen-fr		Plastics/polymers	2,2'-(1-(methylene)bis(4-(1-phenyleneoxy)methylene))bisoxazane	1675-54-3		0.02897561	g	7152	0.7152		2212	0.2212
Substrate Assembly, Halogen-fr		Plastics/polymers	Other Epoxy resins.	-		0.06361103	g	15701	1.5701		4857	0.4857
Substrate Assembly, Halogen-fr		Plastics/polymers	Proprietary Material-Other Epoxy resins	-		0.17025603	g	42024	4.2024		13000	1.3
Substrate Assembly, Halogen-fr		Lead/Lead Compounds	Lead	7439-92-1		0.00458213	g	1131	0.1131		349	0.0349
Substrate Assembly, Halogen-fr		Plastics/polymers	4,4'-isopropylidenediphenol-1-chloro-2,3-epoxypropane concentrate	25068-38-6		0.05909372	g	14586	1.4586		4512	0.4512
Substrate Assembly, Halogen-fr		Plastics/polymers	Proprietary Material-Other phenolic resins	-		0.11449256	g	28260	2.826		8742	0.8742
Substrate Assembly, Halogen-fr		Glass	Fibrous-glass-wool	65997-17-3		1.17051833	g	288917	28.8917		89380	8.938
Substrate Assembly, Halogen-fr		Glass	Silicon dioxide	7631-86-9		0.36661929	g	90492	9.0492		27994	2.7994
Substrate Assembly, Halogen-fr		Metals	Silver, metal	7440-22-4		0.00094398	g	233	0.0233		72	0.0072
Substrate Assembly, Halogen-fr		Metals	Tin, metal	7440-31-5		0.03806695	g	9396	0.9396		2906	0.2906
Substrate Assembly, Halogen-fr		Metals	Aluminum Hydroxide	21645-51-2		0.63846418	g	157591	15.7591		48752	4.8752
Substrate Assembly, Halogen-fr		Metals	Copper phthalocyanine	147-14-8		0.02028823	g	666	0.0666		206	0.0206
Gel Die Encapsulant	0.0174						g					
Gel Die Encapsulant		Metals	Aluminum, metal	7429-90-5		0.01218	g	700000	70		930	0.093
Gel Die Encapsulant		Solvents, additives, and other materials	Siloxanes and silicones, di-Me, vinyl group-terminated	68083-19-2		0.00174	g	100000	10		132	0.0132
Gel Die Encapsulant		Metals	Zinc oxide	1314-13-2		0.00261	g	150000	15		199	0.0199
Gel Die Encapsulant		Solvents, additives, and other materials	Proprietary Material-Other miscellaneous substances.	-		0.000522	g	30000	3		39	0.0039
Gel Die Encapsulant		Solvents, additives, and other materials	Dimethyl Cyclosiloxanes	70900-21-9		0.000174	g	10000	1		13	0.0013
Gel Die Encapsulant		Solvents, additives, and other materials	Dimethyl,methyl hydrogen siloxane	68037-59-2		0.000174	g	10000	1		13	0.0013
Underfill	0.0726						g					
Underfill		Solvents, additives, and other materials	4,4'-Diamino-3,3'-diethyl-diphenylmethane	19900-65-3		0.007986	g	110000	11		609	0.0609
Underfill		Bismuth/Bismuth Compounds	Bismuth nitrate	10361-44-1		0.0000726	g	1000	0.1		5	0.0005
Underfill		Bismuth/Bismuth Compounds	Bismuth trioxide	1304-76-3		0.0005808	g	8000	0.8		44	0.0044
Underfill		Plastics/polymers	1,6-Bis(2,3-epoxypropoxy) naphthalene	27610-48-6		0.010164	g	140000	14		776	0.0776
Underfill		Plastics/polymers	Phenolic Polymer Resin, Epikote 155	9003-36-5		0.00726	g	100000	10		554	0.0554
Underfill		Solvents, additives, and other materials	Carbon Black	1333-86-4		0.0000726	g	1000	0.1		5	0.0005
Underfill		Plastics/polymers	4,4'-isopropylidenediphenol-1-chloro-2,3-epoxypropane concentrate	25068-38-6		0.002904	g	40000	4		221	0.0221
Underfill		Glass	Silica, vitreous	60676-86-0		0.04356	g	600000	60		3326	0.3326
Bonding Agent	0.072						g					
Bonding Agent		Solvents, additives, and other materials	Other organic compounds.	-		0.000108	g	1500	0.15		8	0.0008
Bonding Agent		Solvents, additives, and other materials	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	2530-83-8		0.000216	g	3000	0.3		16	0.0016
Bonding Agent		Solvents, additives, and other materials	Siloxanes and silicones, di-Me, vinyl group-terminated	68083-19-2		0.03988	g	540000	54		2968	0.2968
Bonding Agent		Solvents, additives, and other materials	Other siloxanes and silicones	-		0.00216	g	30000	3		164	0.0164
Bonding Agent		Glass	Silica, crystalline - quartz (SiO2)	14808-60-7		0.0216	g	300000	30		1649	0.1649
Bonding Agent		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-		0.0000144	g	200	0.02		1	0.0001
Bonding Agent		Solvents, additives, and other materials	Dimethyl,methyl hydrogen siloxane	68037-59-2		0.00298	g	40000	4		219	0.0219
Bonding Agent		Solvents, additives, and other materials	Silicic acid sodium salt hydrolysis products with chlorotrimethylsilane and dichloroethenylmethylsil	68584-83-6		0.00324	g	45000	4.5		247	0.0247
Bonding Agent		Glass	Silylated silica	68909-20-6		0.00288	g	40000	4		219	0.0219
Bonding Agent		Metals	Other platinum compounds	-		0.0000216	g	300	0.03		1	0.0001
Cap/Cover	7.44						g					
Cap/Cover		Metals	Copper, metal	7440-50-8		7.3656	g	990000	99		562464	56.2464
Cap/Cover		Nickel (external applications only)	Nickel	7440-02-0		0.0744	g	10000	1		5681	0.5681

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

IPC1752 XML LINKS

http://www.freescale.com/mcds/MPC8572EPXAVNE_IPC1752_v11.xml

http://www.freescale.com/mcds/MPC8572EPXAVNE_IPC1752A.xml