Mfg Item Number	MC9S08JS16CFK	
Mfg Item Name	QFN 24 EP 5*5*1.0P0.65	
SUPPLIER		
Company Name	Freescale Semiconductor Inc	
Company Unique ID	14-141-7928	
Response Date	2015-05-26	
Response Document ID	00KHK11266D003A1.11	
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		
EUROHS	Yes	

EU RoHS	Yes
Pb Free	Yes
HalogenFree	Yes
Plating Indicator	e4
EU RoHS Exemption(s)	

MANUFACTURING	
Mfg Item Number	MC9S08JS16CFK
Mfg Item Name	QFN 24 EP 5*5*1.0P0.65
Version	ALL
Weight	0.058500
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. 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 in this form. In the absence of such written agreement, the warranty rights and/or remedies of Supplier Standard Terms and Conditions of Sale applicable to such part(s) shall agely.
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

Homogeneous Material	Weight	SubstanceClass	Substance	CAS Exemp	ion SubstanceWeight	UoM	SubPart PPM	SubPart%	ARTICLEPPM	ARTICLE%
Epoxy Die Attach	0.0003					g				
Epoxy Die Attach		Solvents, additives, and other materials	Proprietary Material-Other acrylates	-	0.00002648	g	88252	8.8252	452	0.0452
Epoxy Die Attach		Solvents, additives, and other materials	1,1'-(methylenedi-p-phenylene)bismaleimide	13676-54-5	0.00000993	g	33094	3.3094	169	0.0169
Epoxy Die Attach		Metals	Palladium, metal	7440-05-3	0.0000005	g	1655	0.1655	8	0.0008
Epoxy Die Attach		Plastics/polymers	Proprietary Material-Other polymers	-	0.00000496	g	16547	1.6547	84	0.0084
Epoxy Die Attach		Metals	Silver, metal	7440-22-4	0.0002482	g	827358	82.7358	4242	0.4242
Epoxy Die Attach		Plastics/polymers	Proprietary Material-Other Methacrylate compounds	-	0.00000993	g	33094	3.3094	169	0.0169
Silicon Semiconductor Die	0.0026					g				
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-	0.000052	g	20000	2	888	0.0888
Silicon Semiconductor Die		Glass	Silicon, doped	-	0.002548	g	980000	98	43555	4.3555
Bonding Wire, Copper	0.0002					g				
Bonding Wire, Copper		Metals	Copper, metal	7440-50-8	0.000194	g	970000	97	3316	0.3316
Bonding Wire, Copper		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-	0.000006	g	30000	3	102	0.0102
Die Encapsulant, Halogen-free	0.0482					g				
Die Encapsulant, Halogen-free		Plastics/polymers	4,4'-dihydroxy-3,3',5,5'-tetramethylbiphenyl digycidyl ether	85954-11-6	0.00074517	g	15460	1.546	12737	1.2737
Die Encapsulant, Halogen-free		Solvents, additives, and other materials	Carbon Black	1333-86-4	0.00008768	g	1819	0.1819	1498	0.1498
Die Encapsulant, Halogen-free		Metals	Magnesium dihydroxide	1309-42-8	0.00172893	g	35870	3.587	29554	2.9554
Die Encapsulant, Halogen-free		Solvents, additives, and other materials	Proprietary Material-Other organic phosphorous compounds	-	0.00003822	g	793	0.0793	653	0.0653
Die Encapsulant, Halogen-free		Plastics/polymers	1,3,5-Triazine-2,4,6-triamine, polymer with formaldehyde and phenol	25917-04-8	0.00015236	g	3161	0.3161	2604	0.2604
Die Encapsulant, Halogen-free		Plastics/polymers	Phenol p-xylylene dimethyl ether copolymer	26834-02-6	0.00175193	g	36347	3.6347	29947	2.9947
Die Encapsulant, Halogen-free		Glass	Silica, vitreous	60676-86-0	0.04115345	g	853806	85.3806	703492	70.3492
Die Encapsulant, Halogen-free		Metals	Zinc Hydroxide	20427-58-1	0.00080359	g	16672	1.6672	13736	1.3736
Die Encapsulant, Halogen-free		Plastics/polymers	Proprietary Material-Other Non-halogenated Epoxy resins	-	0.00173867	g	36072	3.6072	29720	2.972
Copper Lead Frame	0.0072					g				
Copper Lead Frame		Metals	Copper, metal	7440-50-8	0.00648529	g	900735	90.0735	110859	11.0859
Copper Lead Frame		Metals	Gold, metal	7440-57-5	0.00001038	g	1441	0.1441	177	0.0177
Copper Lead Frame		Solvents, additives, and other materials	Phosphorus, elemental (not containing red allotrope)	7723-14-0	0.00002074	g	2881	0.2881	354	0.0354
Copper Lead Frame		Metals	Iron, metal	7439-89-6	0.00016493	g	22907	2.2907	2819	0.2819
Copper Lead Frame		Nickel (external applications only)	Nickel	7440-02-0	0.00037344	g	51866	5.1866	6383	0.6383
Copper Lead Frame		Metals	Palladium, metal	7440-05-3	0.00004149	g	5763	0.5763	709	0.0709
Copper Lead Frame		Metals	Zinc, metal	7440-66-6	0.00010373	g	14407	1.4407	1773	0.1773

LINKS	
MCD LINK	
Freescale website	http://www.freescale.com
GENERAL ENVIRONMENTAL COMPLIANCE LINKS	
RoHS signed letter	http://www.freescale.com/files/abstract/corporate/ehs_epp/ENV_ROHS_Freescale_Response.pdf
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	https://www.freescale.com/webapp/servicerequest.create_SR.framework?defaultCategory=Hardware Product Support&defaultTopic=Environmentally Preferred Prod
LINKS TO BLANK IPC1752 FORMS	
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/MC9S08JS16CFK_IPC1752_v11.xml

http://www.freescale.com/mcds/MC9S08JS16CFK_IPC1752A.xml