PART INFORMATION

Mfg Item Number MPC17510EJ
Mfg Item Name TSSOP 24 5.6*7.8*1.P0.65

SUPPLIER
Company Name

Company Name

Company Unique ID

Response Date

Freescale Semiconductor Inc

14-141-7928

2015-06-06

Response Document ID 6123J03124S003M1.2 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

Number of Processing Cycles

EU RoHS
Pb Free
Yes
HalogenFree
No
Plating Indicator
EU RoHS Exemption(s)

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MANUFACTURING

Mfg Item Number MPC17510EJ
Mfg Item Name TSSOP 24 5.6*7.8*1.P0.65

Version

Weight

UoM

Unit Volume

J-STD-020 MSL Rating

Peak Processing Temperature

Max Time at Peak Temperature

ALL

0.121600

g

EACH

260 C

40 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
Exemplions	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				SubstanceWeight	UoM	SubPart PPM		ARTICLEPPM	ARTICLE%
Epoxy Die Attach	0.0007					g				
Epoxy Die Attach		Cadmium/Cadmium Compounds	Cadmium	7440-43-9	0	g	3	0.0003	0	0
Epoxy Die Attach		Plastics/polymers	Phenolic Polymer Resin, Epikote 155	9003-36-5	0.00009642	g	137740	13.774	792	0.0792
poxy Die Attach		Lead/Lead Compounds	Lead	7439-92-1	0	g	7	0.0007	0	0
poxy Die Attach		Plastics/polymers	Phenol, polymer with formaldehyde	9003-35-4	0.00002121	g	30303	3.0303	174	0.0174
poxy Die Attach		Metals	Silver, metal	7440-22-4	0.00058237	g	831947	83.1947	4789	0.4789
opper Lead Frame	0.0425					g				
Copper Lead Frame		Metals	Copper, metal	7440-50-8	0.04115275	g	968300	96.83	338427	33.8427
Copper Lead Frame		Metals	Gold, metal	7440-57-5	0.00000289	g	68	0.0068	23	0.0023
opper Lead Frame		Solvents, additives, and other materials	Phosphorus, elemental (not containing red allotrope)	7723-14-0	0.00003472	g	817	0.0817	285	0.0285
opper Lead Frame		Metals	Iron, metal	7439-89-6	0.00098043	g	23069	2.3069	8062	0.8062
opper Lead Frame		Nickel (external applications only)	Nickel	7440-02-0	0.00025538	g	6009	0.6009	2100	0.21
Copper Lead Frame		Metals	Palladium, metal	7440-05-3	0.00003073	g	723	0.0723	252	0.0252
Copper Lead Frame		Metals	Zinc, metal	7440-66-6	0.0000431	g	1014	0.1014	354	0.0354
onding Wire	0.001					g				
onding Wire		Metals	Gold, metal	7440-57-5	0.001	g	1000000	100	8223	0.8223
ie Encapsulant	0.0722					g				
e Encapsulant		Antimony/Antimony Compounds	Antimony trioxide	1309-64-4	0.000361	g	5000	0.5	2968	0.2968
ie Encapsulant		Flame Retardants	Bromophenol, formaldehyde, epichlorohydrin polymer	68541-56-0	0.000722	g	10000	1	5937	0.5937
ie Encapsulant		Plastics/polymers	4,4'-dihydroxy-3,3',5,5'-tetramethylbiphenyl digycidyl ether	85954-11-6	0.003249	g	45000	4.5	26718	2.6718
ie Encapsulant		Solvents, additives, and other materials	Carbon Black	1333-86-4	0.000722	g	10000	1	5937	0.5937
e Encapsulant		Glass	Silicon dioxide	7631-86-9	0.063536	g	880000	88	522510	52.251
e Encapsulant		Solvents, additives, and other materials	Proprietary Material-Other miscellaneous substances.		0.00361	g	50000	5	29687	2.9687
licon Semiconductor Die	0.0052					g				
licon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-	0.000104	g	20000	2	855	0.0855
illicon Semiconductor Die		Glass	Silicon, doped	-	0.005096	g	980000	98	41907	4.1907

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/MPC17510EJ_IPC1752_v11.xml

http://www.freescale.com/mcds/MPC17510EJ_IPC1752A.xml