SUPPLIER

**URL** for Additional Information

PART INFORMATION

Mfg Item Number

Mfg Item Name

PDIP 40

Company Name Freescale Semiconductor Inc Company Unique ID 14-141-7928 Response Date 2017-07-25 Response Document ID 0149K00035D022A1.11 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

DECLARATION

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

www.freescale.com

MANUFACTURING Mfg Item Number MCHSC705C8ACPE Mfg Item Name PDIP 40 Version ALL Weight 5.953450 UoM Unit Volume EACH J-STD-020 MSL Rating Peak Processing Temperature Max Time at Peak Temperature Number of Processing Cycles

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
Zampuono	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%	ARTICLEPPM	ARTICLE%
								PPM			
Epoxy Die Attach	0.0014						g				
poxy Die Attach		Cadmium/Cadmium Compounds	Cadmium	7440-43-9		0	g	3	0.0003	0	0
poxy Die Attach		Plastics/polymers	Phenolic Polymer Resin, Epikote 155	9003-36-5		0.00019284	g	137740	13.774	32	0.0032
poxy Die Attach		Lead/Lead Compounds	Lead	7439-92-1		0.00000001	g	7	0.0007	0	0
poxy Die Attach		Plastics/polymers	Phenol, polymer with formaldehyde	9003-35-4		0.00004242	g	30303	3.0303	7	0.0007
poxy Die Attach		Metals	Silver, metal	7440-22-4		0.00116473	g	831947	83.1947	195	0.0195
ie Encapsulant	4.6115						g				
ie Encapsulant		Antimony/Antimony Compounds	Antimony trioxide	1309-64-4		0.13510312	g	29297	2.9297	22693	2.2693
lie Encapsulant		Flame Retardants	Other brominated flame retardants			0.06754925	g	14648	1.4648	11346	1.1346
ie Encapsulant		Plastics/polymers	Proprietary Material-Other Epoxy resins	-		0.67551097	g	146484	14.6484	113465	11.3465
ie Encapsulant		Solvents, additives, and other materials	Other organic phosphorous compounds			0.01801252	g	3906	0.3906	3025	0.3025
ie Encapsulant		Plastics/polymers	Phenol, polymer with formaldehyde	9003-35-4		0.33775548	g	73242	7.3242	56732	5.6732
ie Encapsulant		Glass	Silica, vitreous	60676-86-0		3.37756866	g	732423	73.2423	567339	56.7339
copper Lead Frame	1.3032						g				
copper Lead Frame		Metals	Copper, metal	7440-50-8		1.25622616	g	963955	96.3955	211008	21.1008
opper Lead Frame		Solvents, additives, and other materials	Phosphorus, elemental (not containing red allotrope)	7723-14-0		0.00107514	g	825	0.0825	180	0.018
opper Lead Frame		Metals	Iron, metal	7439-89-6		0.0306252	g	23500	2.35	5144	0.5144
opper Lead Frame		Lead/Lead Compounds	Lead	7439-92-1		0.00022154	g	170	0.017	37	0.0037
copper Lead Frame		Metals	Silver, metal	7440-22-4		0.013032	g	10000	1	2188	0.2188
Copper Lead Frame		Metals	Tin, metal	7440-31-5		0.00039096	g	300	0.03	65	0.0065
opper Lead Frame		Metals	Zinc, metal	7440-66-6		0.001629	g	1250	0.125	273	0.0273
ead Frame Plating	0.0174						g				
ead Frame Plating		Lead/Lead Compounds	Lead	7439-92-1		0.0000348	g	200	0.02	0	0
ead Frame Plating		Metals	Tin, metal	7440-31-5		0.01739652	g	999800	99.98	2922	0.2922
onding Wire	0.0016						g				
onding Wire		Metals	Gold, metal	7440-57-5		0.0016	g	1000000	100	268	0.0268
ilicon Semiconductor Die	0.01835						g				
licon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-		0.000367	g	20000	2	61	0.0061
ilicon Semiconductor Die		Glass	Silicon, doped	_		0.017983		980000	98	3020	0.302

LINKS MCD LINK NXP website http://www.nxp.com GENERAL ENVIRONMENTAL COMPLIANCE LINKS http://www.nxp.com/files/corporate/doc/support\_info/NXP-ROHS-DECLARATION.pdf RoHS signed letter China RoHS http://www.nxp.com/about/corporate-responsibility/environmental-compliance-organization/china-rohs:ENV\_CHINA\_ROHS\_STRATEGY http://www.nxp.com/files/corporate/doc/support\_info/NXP-REACH-STATEMENT.pdf REACH signed letter http://www.nxp.com/files/corporate/doc/support\_info/NXP-ELV-STATEMENT.pdf ELV signed letter http://www.nxp.com/files/corporate/doc/support\_info/NXP-STATEMENT-CONFLICT-MINERALS.pdf Conflict Minerals statement 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 http://www.nxp.com/support/sales-and-support:SUPPORTHOME Technical Service Request

http://www.NXP.com/files/abstract/corporate/ehs\_epp/IPC-1752-2\_v1.1\_MCD\_Template.pdf

LINKS TO BLANK IPC1752 FORMS Blank IPC1752 v1.1 Form

## IPC1752 XML LINKS

http://www.freescale.com/mcds/MCHSC705C8ACPE\_IPC1752\_v11.xml

http://www.freescale.com/mcds/MCHSC705C8ACPE\_IPC1752A.xml