

**PART INFORMATION**

Mfg Item Number	MC34932SEK
Mfg Item Name	SOIC-EP 54 7.5*17.9 P.65

**SUPPLIER**

Company Name	Freescale Semiconductor Inc
Company Unique ID	14-141-7928
Response Date	2018-06-26
Response Document ID	00E4A1.4
Contact Name	Freescale Semiconductor Inc
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**DECLARATION**

EU RoHS	Yes
Pb Free	Yes
HalogenFree	Yes
Plating Indicator	e3
EU RoHS Exemption(s)	

**MANUFACTURING**

Mfg Item Number	MC34932SEK
Mfg Item Name	SOIC-EP 54 7.5*17.9 P.65
Version	ALL
Weight	0.766050
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 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	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	<p>6(a) : Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0.35% lead by weight</p> <p>6(b) : Lead as an alloying element in aluminium containing up to 0.4% lead by weight</p> <p>6(c) : Copper alloy containing up to 4% lead by weight</p> <p>7(a) : Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead)</p> <p>7(b) : Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signaling, transmission, and network management for telecommunications</p> <p>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</p> <p>7(c)-II : Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher</p> <p>7(c)-III : Lead in dielectric ceramic in capacitors for a rated voltage of less than 125 V AC or 250 V DC</p> <p>7(c)-IV : Lead in PZT based dielectric ceramic materials for capacitors being part of integrated circuits or discrete semiconductors</p> <p>15 : Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages</p>

MATERIAL COMPOSITION

Homogeneous Material	Weight	SubstanceClass	Substance	CAS	Exemption	SubstanceWeight	UoM	SubPart PPM	SubPart%	ARTICLEPPM	ARTICLE%
Lead Frame Plating	0.0053						g				
Lead Frame Plating		Lead/Lead Compounds	Lead	7439-92-1		0.0000106	g	200	0.02	1	0.0001
Lead Frame Plating		Metals	Tin, metal	7440-31-5		0.00529894	g	999800	99.98	8917	0.6917
Die Encapsulant, Halogen-free	0.5477						g				
Die Encapsulant, Halogen-free		Solvents, additives, and other materials	Acrylonitrile/Butadiene copolymer, carboxyl terminated (26/74)	68891-46-3		0.0005477	g	1000	0.1	714	0.0714
Die Encapsulant, Halogen-free		Plastics/polymers	Poly(o-cresyl glycidyl ether)-co-formaldehyde	23690-82-2		0.0120404	g	22000	2.2	15729	1.5729
Die Encapsulant, Halogen-free		Plastics/polymers	Proprietary Material-Other Epoxy resins	-		0.0180741	g	33000	3.3	23593	2.3593
Die Encapsulant, Halogen-free		Solvents, additives, and other materials	Carbon Black	1333-86-4		0.0016431	g	3000	0.3	2144	0.2144
Die Encapsulant, Halogen-free		Plastics/polymers	Proprietary Material-Other phenolic resins	-		0.0235511	g	43000	4.3	30743	3.0743
Die Encapsulant, Halogen-free		Glass	Silicon dioxide	7631-86-9		0.021989	g	40000	4	28598	2.8598
Die Encapsulant, Halogen-free		Glass	Silica, vitreous	60676-86-0		0.4692266	g	858000	85.8	613453	61.3453
Bonding Wire, Copper	0.002						g				
Bonding Wire, Copper		Metals	Copper, metal	7440-50-8		0.00194	g	970000	97	2532	0.2532
Bonding Wire, Copper		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%)	-		0.00006	g	30000	3	78	0.0078
Copper Lead Frame	0.2034						g				
Copper Lead Frame		Metals	Copper, metal	7440-50-8		0.1969844	g	963955	96.3955	255947	25.5947
Copper Lead Frame		Solvents, additives, and other materials	Phosphorus, elemental (not containing red allotrope)	7723-14-0		0.00016781	g	825	0.0825	219	0.0219
Copper Lead Frame		Metals	Iron, metal	7439-89-6		0.0047729	g	23500	2.35	6239	0.6239
Copper Lead Frame		Lead/Lead Compounds	Lead	7439-92-1		0.0003458	g	170	0.017	45	0.0045
Copper Lead Frame		Metals	Silver, metal	7440-22-4		0.002034	g	10000	1	2655	0.2655
Copper Lead Frame		Metals	Tin, metal	7440-31-5		0.0006102	g	300	0.03	79	0.0079
Copper Lead Frame		Metals	Zinc, metal	7440-66-6		0.00025425	g	1250	0.125	331	0.0331
Epoxy Die Attach	0.00265						g				
Epoxy Die Attach		Metals	Silver, metal	7440-22-4		0.002014	g	760000	76	2629	0.2629
Epoxy Die Attach		Plastics/polymers	Other Non-halogenated Epoxy resins	-		0.00011543	g	43560	4.356	150	0.015
Epoxy Die Attach		Solvents, additives, and other materials	Polyethylene polyphenyl isocyanate (PAPI)	9016-87-9		0.0001352	g	5100	0.51	17	0.0017
Epoxy Die Attach		Metals	Dibutyltin dilaurate	77-58-7		0.000009	g	340	0.034	1	0.0001
Epoxy Die Attach		Solvents, additives, and other materials	Alkanes, C14-16	90622-46-1		0.000371	g	140000	14	484	0.0484
Epoxy Die Attach		Plastics/polymers	1,3-Benzenedicarboxylic acid, polymer with 1,4-benzenedicarboxylic acid, 1,4-butanediol and hexanedi	66027-02-9		0.00013515	g	51000	5.1	176	0.0176
Silicon Semiconductor Die	0.005						g				
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%)	-		0.0001	g	20000	2	130	0.013
Silicon Semiconductor Die		Glass	Silicon, doped	-		0.0049	g	960000	98	6396	0.6396

## LINKS

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

IPC1752 XML LINKS

[http://www.freescale.com/mcdfs/MC34932SEK\\_IPC1752\\_v11.xml](http://www.freescale.com/mcdfs/MC34932SEK_IPC1752_v11.xml)

[http://www.freescale.com/mcdfs/MC34932SEK\\_IPC1752A.xml](http://www.freescale.com/mcdfs/MC34932SEK_IPC1752A.xml)