


<b>Company</b>	 National Semiconductor <small>The Sight &amp; Sound of Information</small>	<b>DUNS#</b>	<b>URL for Additional Information</b>
National Semiconductor		04-147-2986	<a href="http://www.national.com/quality/green/">http://www.national.com/quality/green/</a>

<b>Contact</b>	<b>Title</b>	<b>Phone</b>	<b>Email</b>
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<b>Part Number</b>	<b>MSL Rating</b>	<b>Peak Body Temp C</b>	<b>MaxTime (Sec)</b>	<b>Cycles</b>	<b>Unit Type</b>
LM360MX	NOPB	1	260	40	4
					Each

<b>Document Date</b>	European RoHS Compliant. China RoHS Compliant	<b>Weight (mg)</b>
26-Apr-2008		69.76

Homogeneous Material Composition Declaration for Electronic Products						
Item	Weight (mg)	Component	CAS#	Weight (mg)	Item-ppm	Part-ppm
Plastic	44.71	SiO2	60676-86-0	36.215	810,000	519,138
		Epoxy Resin	25928-94-3	7.243	162,000	103,828
		Sb2O3	1309-64-4	0.894	20,000	12,818
		Brominated Epoxy	40039-93-8	0.358	8,000	5,127
Leadframe	20.56	Cu	7440-50-8	20.036	974,500	287,209
		Fe	7439-89-6	0.493	24,000	7,073
		Zn	7440-66-6	0.025	1,200	354
		P	7723-14-0	0.006	300	88
Chip	2.36	Si	7440-21-3	2.346	994,000	33,627
		Al	7429-90-5	0.014	6,000	203
Ext. LeadFinish	1.60	Sn	7440-31-5	1.600	1,000,000	22,936
Die Attach	0.27	Ag	7440-22-4	0.203	750,000	2,903
		Epoxy Resin	25928-94-3	0.068	250,000	968
Int. LeadFinish	0.18	Ag	7440-22-4	0.180	1,000,000	2,580
Wires	0.08	Au	7440-57-5	0.080	1,000,000	1,147

**Note:** The device content disclosed herewith is approximate and is based on engineering estimates only. It has not been verified through analytical testing. Additionally, the following should be noted:

- One or more dopant materials may be present in the silicon die at sub-ppm levels to provide semiconductor properties.
- Epoxy resin components listed are generic and may or may not be the specific compound used, which is considered proprietary.


RoHS Material Composition Declaration	
<b>RoHS Directive 2002/95/EC</b>	RoHS Definition: Quantity limit of 0.1% by mass (1000 PPM) in 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 for Cadmium

Subject to the limitations below, National Semiconductor Corporation ("National") certifies the following information as of the document date.

- National products designated "ROHS Compliant" comply with the European Union's Directive on the Restriction of the Use of Hazardous Substances 2002/95/EC ("RoHS"). These products do not contain Joint Industry Guide (JIG) -101 Level A substances above threshold limits, except lead in RoHS exempt applications 5, 7a and 7c. These products do not contain perfluorooctane sulfonates (PFOS).
- National products are manufactured in conformance with National specifications (SC) CSP-9-111C1 Supplier Environmental Requirements for Materials and Products and (SC) CSP-9-111S2 List of Banned and Reportable Substances, which are available at [www.national.com/quality/green/](http://www.national.com/quality/green/).

National has taken commercially reasonable steps to provide representative and accurate information but may not have independently verified information provided or conducted chemical analysis of incoming materials. Equivalent compliant materials may have been substituted for those stated herein. Material concentrations are the maximum expected concentration of the substances in the device and may not represent the actual concentration. National and its suppliers consider certain limited information to be confidential and thus CAS numbers and other limited information may not be available for release. National's Standard Terms and Conditions of Sale apply to any issues arising out of or in connection with the information provided herein unless otherwise provided by a written contract signed by both parties.

NATIONAL ACCEPTS NO DUTY TO NOTIFY USERS OF THIS DECLARATION OF UPDATES OR CHANGES TO THIS DECLARATION.

 Gerry Fields  
Vice President Quality

**Banned Substance Monitoring**

Part Number		Document Date
LM360MX	NOPB	26-Apr-2008

European RoHS Compliant.

China RoHS Compliant

Item#	Material	Cd	CrVI	Pb	Hg	PBB	PBDE	Cl	Br	Ref #
1	CHIP	<1	<1	<1	<30	<10	<10	NA	NA	1000
2	COMPOUND	<2	<5	<5	<1	<10	<10	<20	<20	637
3	EPOXY	<2	<5	<5	<1	<10	<10	160	<20	32
4	EXTLF	<2	<2	30	<2	NA	NA	NA	NA	595
5	FRAME	<2	<2	15	<2	NA	NA	N/A	N/A	53
6	WIRE	<2	<2	<2	<2	NA	NA	NA	NA	132

\* Cd: Cadmium, CrVI: Hexavalent Chromium, Pb: Lead, Hg: Mercury, ND: Not Detected

\* Unless otherwise noted, units are in PPM (parts-per-million)

Ref #	3rd Party Analysis (available upon request, subject to a non-disclosure agreement)
1000	Analysis on 02/13/2008 by Balazs Analytical Services-Fremont CA per Report# 08-00823-00
637	Analysis on 03/14/2008 by ALS per Report# ATJB/0791BS/2008
32	Analysis on 03/14/2008 by ALS per Report# ATJB/0807BS/2008
595	Analysis on 03/14/2008 by SGS per Report# LPCI/03628/08
53	Analysis on 03/13/2007 by SGS per Report# LPCI/05143/07
132	Analysis on 04/09/2008 by SGS per Report# LPCI/06217/08