

<b>Company</b>		<b>DUNS#</b>	<b>URL For Additional Information</b>
National Semiconductor		04-147-2986	<a href="http://www.national.com/analog/quality/green">http://www.national.com/analog/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>
LM339AN J7001551	1	260	40	4	Each

<b>Document Date</b>	European RoHS Compliant. China RoHS Compliant.	<b>Weight (mg)</b>	Contains Halogens (Flame Retardant)
05-20-2009		986.75	

### Homogeneous Material Composition Declaration for Electronic Products

Item	Weight (mg)	Component	CAS#	Weight (mg)	Item-ppm	Part-ppm
Plastic	741.04	SiO2	60676-86-0	512.948	692,200	519,835
		Epoxy Resin	25928-94-3	214.902	290,000	217,787
		Sb2O3	1309-64-4	6.669	9,000	6,759
		Brominated Epoxy	40039-93-8	6.521	8,800	6,609
Leadframe	221.58	Cu	7440-50-8	215.930	974,500	218,829
		Fe	7439-89-6	5.318	24,000	5,389
		Zn	7440-66-6	0.266	1,200	270
		P	7723-14-0	0.066	300	67
Ext. LeadFinish	21.80	Sn	7440-31-5	21.800	1,000,000	22,093
Chip	1.81	Si	7440-21-3	1.799	994,000	1,823
		Al	7429-90-5	0.011	6,000	11
Die Attach	0.21	Ag	7440-22-4	0.158	750,000	160
		Epoxy Resin	25928-94-3	0.053	250,000	54
Wires	0.17	Au	7440-57-5	0.170	1,000,000	172
Int. LeadFinish	0.14	Ag	7440-22-4	0.140	1,000,000	142

**Note:** The device content disclosed herewith is approximate and is based on engineering estimates only. It has not been verified through analytical. 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
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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 Unions Directive on the Restriction of the Use of Hazardous Substances 2002/95/EC ("RoHS"). Certain National products contain lead in RoHS exempt applications 5, 7a or 7c.
- National products do not contain and are not manufactured with ozone depleting compounds.
- National products do not contain substances identified by the European Chemical Agency ("ECHA") as substances of very high concern ("SVHC").
- 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 Banned and Reportable Substances.
- National's list of banned and reportable substances and management system is based on the current version of the Joint Industrial Guide, JIG-101.

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 substance 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 issue 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 Edwards  
Vice President Quality

**Banned Substance Monitoring**

Part Number		Document Date
LM339AN	J7001551	05-20-2009

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	NA	NA	571
3	EXTLF	< 2	< 2	23	< 2	NA	NA	NA	NA	595
4	FRAME	< 2	< 2	11	< 2	NA	NA	NA	NA	52
5	WIRE	< 2	< 2	< 2	< 2	NA	NA	NA	NA	75

\* Cd: Cadmium, CrVI: Hexavalent Chromium, Pb: Lead, Hg: Mercury, NA: Not Applicable

\* 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 03/01/2009 by BALAZ as per Report# E008516J #01/LMP7300D6/VIP050L23
571	Analysis on 03/01/2009 by per Report#
595	Analysis on 03/01/2009 by SGS per Report# 04501/09
52	Analysis on 03/01/2009 by SGS per Report# 04536/09
75	Analysis on 03/01/2009 by SGS per Report# 04531/09