

<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>
LM309H	1	NA	NA	NA	Each

<b>Document Date</b>	European RoHS Compliant. China RoHS Compliant.	<b>Weight (mg)</b>	Does NOT Contain Halogens
01-17-2012		1032.66	

**Material Composition Declaration for Electronic Products**

Item	Weight (mg)	Component	CAS#	Weight (mg)	Item-ppm	Part-ppm
Leads	67.000	Fe	7439-89-6	36.180	540,000	35,036
		Ni	7440-02-0	19.430	290,000	18,816
		Co	7440-48-4	11.390	170,000	11,030
Eyelet	629.900	Fe	7439-89-6	340.146	540,000	329,389
		Ni	7440-02-0	182.671	290,000	176,894
		Co	7440-48-4	107.083	170,000	103,697
Plating1	5.880	Ni	7440-02-0	5.880	1,000,000	5,694
Plating2	4.320	Au	7440-57-5	4.320	1,000,000	4,183
Lid	309.500	Ni	7440-02-0	309.500	1,000,000	299,712
Chip	3.440	Si	7440-21-3	3.419	994,000	3,311
		Al	7429-90-5	0.021	6,000	20
Glass	11.600	SiO2	60676-86-0	9.350	806,000	9,054
		B2O3	1303-86-2	1.508	130,000	1,460
		Na2O	12401-86-4	0.464	40,000	449
		Al2O3	1344-28-1	0.278	24,000	269
Die Attach	1.010	Au	7440-57-5	0.990	980,000	959
		Si	7440-21-3	0.020	20,000	19
Wires	0.007	Al	7429-90-5	0.007	1,000,000	7

**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
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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 7(a) or 7(c)-1.
- 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") per REACH Regulation (EC) No 1907/2006. National also complies with use restrictions as stipulated in Annex XVII of REACH.
- 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. Nationals 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.

  
 John L. Conn  
 Vice President Quality

**Banned Substance Monitoring**

<b>Part Number</b>	<b>Document Date</b>
LM309H	01-17-2012

European RoHS Compliant.

China RoHS Compliant.

<b>Item#</b>	<b>Material</b>	<b>Cd</b>	<b>CrVI</b>	<b>Pb</b>	<b>Hg</b>	<b>PBB</b>	<b>PBDE</b>	<b>Cl</b>	<b>Br</b>	<b>Ref#</b>
1	CHIP	<1	<1	<1	<30	<10	<10	<75	<50	1000
2	HEADER	<2	<2	<2	<2	<5	<5	N/A	N/A	672
3	PREFORM	<2	N/D	<2	<2	<5	<5	N/A	N/A	75
4	WIRE	<2	N/D	<2	<2	<5	<5	N/A	N/A	604

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

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

<b>Ref#</b>	<b>3rd Party Analysis</b> (available upon request, subject to a non-disclosure agreement)
1000	Analysis on 01/24/2011 by Balazs as per Report# 11-00322-00
672	Analysis on 04/29/2011 by SGS per Report# LPCI/04430(B)/11
75	Analysis on 04/29/2011 by SGS per Report# LPCI/04464(B)/11
604	Analysis on 04/29/2011 by SGS per Report# LPCI/04451(B)/11