

<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>
LMV393MX DRSN	1	260	40	4	Each

<b>Document Date</b>	European RoHS Compliant. China RoHS Compliant.	<b>Weight (mg)</b>	Does NOT Contain Halogens
10-27-2011		69.76	

### Material Composition Declaration for Electronic Products

Item	Weight (mg)	Component	CAS#	Weight (mg)	Item-ppm	Part-ppm
Plastic	44.710	SiO2	60676-86-0	39.792	890,000	570,405
		Epoxy Resin	25928-94-3	3.577	80,000	51,275
		Mg(OH)2	1309-42-8	1.341	30,000	19,223
Leadframe	20.560	Cu	7440-50-8	20.036	974,500	287,209
		Fe	7439-89-6	0.493	24,000	7,067
		Zn	7440-66-6	0.025	1,200	358
		P	7723-14-0	0.006	300	86
Chip	2.360	Si	7440-21-3	2.346	994,000	33,629
		Al	7429-90-5	0.014	6,000	201
Ext. LeadFinish	1.600	Sn	7440-31-5	1.600	1,000,000	22,935
Die Attach	0.271	Ag	7440-22-4	0.203	750,000	2,910
		Epoxy Resin	25928-94-3	0.068	250,000	975
Int. LeadFinish	0.180	Ag	7440-22-4	0.180	1,000,000	2,580
Wires	0.080	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
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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. 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.

  
John L. Conn  
Vice President Quality

**Banned Substance Monitoring**

Part Number		Document Date
LMV393MX	DRSN	10-27-2011

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	<75	<50	1000
2	COMPOUND	<2	<2	<2	<2	<5	<5	<50	<50	637
3	EPOXY	<2	<2	<2	<2	<5	<5	<50	<50	32
4	EXTLF	<2	N/D	23	<2	<5	<5	<50	<50	595
5	FRAME	<2	N/D	7	<2	<5	<5	N/A	N/A	88
6	WIRE	<2	N/D	<2	<2	<5	<5	N/A	N/A	132

\* 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 01/24/2011 by Balazs as per Report# 11-00322-00
637	Analysis on 04/29/2011 by SGS per Report# LPCI/04381(B)/11
32	Analysis on 04/29/2011 by SGS per Report# LPCI/04433(B)/11
595	Analysis on 04/29/2011 by SGS per Report# LPCI/04369(B)/11
88	Analysis on 04/29/2011 by SGS per Report# LPCI/04330(B)/11
132	Analysis on 04/29/2011 by SGS per Report# LPCI/04465(B)/11