

		<b>Material Composition Declaration</b> Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions.		This document is a declaration of the substances within the manufacturer listed item. Note: if the item is an assembly with lower level parts, the declaration encompasses all lower level materials for which the manufacturer has engineering responsibility.						
1752-2 1.1		IPC Web Site for Information on IPC-1752 Standard <a href="http://www.ipc.org/IPC-175x">http://www.ipc.org/IPC-175x</a>		<b>Form Type *</b> <b>Distribute</b>		<b>Declaration Class *</b> <b>Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Information</b>				
<b>Supplier Information</b>										
<b>Company Name *</b> <b>National Semiconductor</b>		Company Unique ID NATSEMI		Unique ID Authority 04-147-2986		<b>Response Date *</b> 01-24-2012		Response Document ID		
Contact Name * Lorena Dudman		Title - Contact Product Stewardship Eng.		Phone - Contact * 1-408-721-8180		Email - Contact * Green.Project@nsc.com				
Authorized Representative * Lorena Dudman		Title - Representative Product Stewardship Eng.		Phone - Representative * 1-408-721-8180		Email - Representative * Green.Project@nsc.com		Supplier Comments or URL for Additional Information <a href="http://www.national.com/analog/quality/green">http://www.national.com/analog/quality/green</a>		
	Requester Item Number	Mfr Item Number	Mfr Item Name	Effective Date	Version	Manufacturing Site	<b>Weight *</b>	UOM	Unit Type	
		LMD18200-2D/883SD	LMD18200-2D/883SD	01-24-2012			<b>5145.52</b>	mg	Each	
	Alternate Recommendation				Alternate Item Comments					
<b>Manufacturing Process Information</b>										
Terminal Plating / Grid Array Material <b>SnPb</b>		Terminal Base Alloy <b>Alloy 42</b>		J-STD-020 MSL Rating <b>1</b>		Peak Process Body Temperature <b>NA C</b>		Max Time at Peak Temperature <b>NA seconds</b>		Number of Reflow Cycles <b>NA</b>
<b>Comments</b> <b>"Does not contain PFOS."</b>										

<b>RoHS Material Type Declaration</b>		<b>Declaration Type * Custom</b>	
<b>RoHS Directive 2002/95/EC</b>	<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</b>		
<p>Subject to the limitations below, National Semiconductor Corporation ("National") certifies the following information as of the document date.</p> <ol style="list-style-type: none"> <li>1. 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)-I.</li> <li>2. National products do not contain and are not manufactured with ozone depleting compounds.</li> <li>3. 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.</li> <li>4. 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.</li> <li>5. National's list of banned and reportable substances and management system is based on the current version of the Joint Industrial Guide, JIG-101.</li> </ol> <p>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.</p> <p>NATIONAL ACCEPTS NO DUTY TO NOTIFY USERS OF THIS DECLARATION OF UPDATES OR CHANGES TO THIS DECLARATION</p>			
<b>RoHS Declaration *</b>	<b>2 - Item(s) contains RoHS restricted substances per the definition above and is not under exemption</b>	<b>Supplier Acceptance *</b>	<b>Accepted</b>
<p><b>Exemptions:</b> If the declared item does not contain RoHS restricted substances per the definition above except for defined RoHS exemptions, then select the corresponding response in the RoHS Declaration and above and choose all applicable exemptions.</p>			
<b>Declaration Signature</b>			
<b>Supplier Signature</b>	 John L. Conn Vice President Quality		
	<b>John L. Conn Vice President Quality</b>		

## Homogeneous Material Composition Declaration for Electronic Products

Item/SubItem Name	Homogeneous Material	Weight	Unit of Measure	Level	Substance Category	Substance	CAS	Exempt	Weight	Unit of Measure	Tolerance	PPM
	Lid	757.000	mg	Requester		Al2O3	1344-28-1		510.218	mg		674,000
				Requester		SiO2	60676-86-0		190.007	mg		251,000
				Requester		MnO2	1313-13-9		26.192	mg		34,600
				Requester		TiO2	13463-67-7		10.901	mg		14,400
				Requester		Fe2O3	1309-37-1		10.901	mg		14,400
				Requester		Cr2O3	1308-38-9		8.781	mg		11,600
Leadframe		432.000	mg	Requester		Fe	7439-89-6		250.560	mg		580,000
				Requester		Ni	7440-02-0		181.440	mg		420,000
Chip		40.000	mg	Requester		Si	7440-21-3		39.760	mg		994,000
				Requester		Al	7429-90-5		0.240	mg		6,000
Die Attach		35.800	mg	Requester		Ag	7440-22-4		28.640	mg		800,000
				Requester		Lead Borate Glass	65997-18-4		7.160	mg		200,000
Ext. LeadFinish		34.700	mg	Requester		Sn	7440-31-5		21.861	mg		630,000
				Requester		Pb	7439-92-1		12.839	mg		370,000
Ceramic Body		3309.000	mg	Requester		AlN	24304-00-5		3031.044	mg		916,000
				Requester		Er2O3	12061-16-4		271.338	mg		82,000
				Requester		MoO3	1313-27-5		6.618	mg		2,000
Lid Attach		330.000	mg	Requester		PbO	1317-36-8		195.591	mg		592,700
				Requester		ZnO	1314-13-2		63.393	mg		192,100
				Requester		B2O3	1303-86-2		20.757	mg		62,900
				Requester		SiO2	60676-86-0		20.757	mg		62,900
				Requester		TiO2	13463-67-7		18.579	mg		56,300
				Requester		Bi2O3	1304-76-3		5.478	mg		16,600

			Requester		Al2O3	1344-28-1		5.445	mg		16,500
Braze	22.200	mg	Requester		Ag	7440-22-4		18.870	mg		850,000
			Requester		Cu	7440-50-8		3.330	mg		150,000
Metallization	184.599	mg	Requester		W	7440-33-7		149.988	mg		812,500
			Requester		Au	7440-57-5		16.983	mg		92,000
			Requester		Ni	7440-02-0		14.378	mg		77,890
			Requester		Mo	7439-98-7		2.160	mg		11,700
			Requester		Co	7440-48-4		0.620	mg		3,360
			Requester		Pd	7440-05-3		0.415	mg		2,250
			Requester		B	7440-42-8		0.055	mg		300
Wires	0.216	mg	Requester		Al	7429-90-5		0.214	mg		990,000
			Requester		Si	7440-21-3		0.002	mg		10,000