



MATERIAL SAFETY DATA SHEET

LPS® RTV Silicone

Revision Date: May 13, 2011

Supersedes: May 21, 2010

Section 1 • Product and Company Identification

Product Name: LPS® RTV Silicone

Part Number(s): 03712, C03712

Chemical Name: Silicone Elastomer

Product Use: A clear silicone adhesive and sealant designed for waterproofing, sealing, bonding, insulating, and protecting in ductwork and electrical applications.

Manufacturer Information: LPS Laboratories, 4647 Hugh Howell Rd., Tucker, GA, USA 30084

TEL: USA & Canada: 1 800 241-8334
Outside USA and Canada: +1 770 243-8800

FAX: USA & Canada: 1 800 543-1563
Outside USA and Canada: +1 770 243-8899

Emergency Telephone Number: Chemtrec: USA & Canada: 1 800 424-9300
Outside USA and Canada: +1 703 527-3887

Website: <http://www.lpslabs.com>

PLAIN LANGUAGE HAZARD SUMMARY

Material Safety Data Sheets can be confusing. Federal and State laws require us to include a great deal of technical information that probably will not help the non-professional. LPS® includes this "PLAIN LANGUAGE HAZARD SUMMARY" to address the questions and concerns of the average worker. If you have additional health, safety or product questions, do not hesitate to call us at 770-243-8800.

Worker Toxicity

LPS® RTV Silicone is designed to bond to metal, ceramic and rubber / elastomeric surfaces to seal out moisture in ductwork and electrical applications. As the product cures, it generates acetic acid vapor ("vinegar") which can cause eye irritation. We suggest you wear gloves and avoid extended exposure to unprotected skin. For more exposure and first aid information, refer to MSDS Sections 2, 8 and 11.

Flammability

LPS® RTV Silicone is not flammable under normal circumstances but may combust when exposed to extremely high temperatures.

Disposal

Once cured, LPS® RTV Silicone is not considered hazardous for disposal.



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LPS® RTV Silicone

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Section 2 • Hazards Identification

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Emergency Overview:

Aerosol: WARNING: Contents under pressure. Uncured product may irritate eyes.

Bulk: Not applicable

Primary route(s) of entry: Skin and eye contact. Inhalation.

Potential Acute Health Effects:

Eyes: Direct contact may cause moderate irritation.

Skin: May cause moderate irritation.

Inhalation: Excessive inhalation of vapors may cause irritation of the respiratory tract.

Ingestion: Product has a low order of acute oral toxicity but may irritate mucous membranes.

Potential Chronic Health Effects:

Carcinogenic Effects: NTP: No IARC: No OSHA: No ACGIH: No

Mutagenic Effects: None

Teratogenic Effects: None

Target Organs: Eyes, skin, mucous membranes

Medical conditions aggravated by exposure: Persons with pre-existing skin disorders and/or chronic respiratory diseases should avoid exposure.

Signs and Symptoms

Eye contact can cause redness, watering, and itching. Repeated or prolonged skin contact can cause redness, irritation, and scaling of the skin (dermatitis).

Section 3 • Composition / Information on Ingredients

Component	CASRN	Weight Percent
Dimethylsiloxane, hydroxyl-terminated	70131-67-8	60 – 80%
Amorphous silica	7631-86-9	10 – 20%
Nitrogen	7727-37-9	1 – 5%
Methyltriacetoxysilane	4253-34-3	1 – 5%
Ethyltriacetoxysilane	17689-77-9	1 – 5%



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LPS® RTV Silicone

Revision Date: May 13, 2011

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Section 4 • First Aid Measures

- Eyes:** Check for and remove contact lenses. If irritation or redness develops, flush eyes with cool, clean, low pressure water for at least 15 minutes. Hold eyelids apart to ensure complete irrigation of the eye and eyelid tissue. Do not use eye ointment. Seek medical attention immediately.
- Skin:** Remove contaminated shoes and clothing. Clean affected area thoroughly with mild soap and water. Do not use ointments. Seek medical attention if irritation persists.
- Inhalation:** Immediately move victim to fresh air. If victim is not breathing, immediately begin rescue breathing. If heart has stopped, immediately begin cardiopulmonary resuscitation (CPR). If breathing is difficult, seek medical attention immediately.
- Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. If conscious, rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting is about to occur, place victim's head below knees. If victim is drowsy or unconscious, place on the left side with head down. Do not leave victim unattended. Seek medical attention immediately.

Section 5 • Fire Fighting Measures

Products of Combustion: Carbon monoxide, carbon dioxide, formaldehyde and traces of incompletely burned carbon compounds.

General Fire Hazards: High heat will cause explosive rupture of closed containers.

Firefighting media: SMALL FIRE: Use DRY chemical powder.
LARGE FIRE: Use CO₂, water spray, fog or foam. Cool containing vessels with water jet in order to prevent pressure build-up auto ignition or explosions.

Sensitivity to Impact: None **Sensitivity to Static Discharge:** None

Protection Clothing (Fire): Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies. Evacuate area and fight the fire from a maximum distance or use unmanned hose holders or monitor nozzles.

Special Remarks on Explosion Hazards: Aerosols may explode upon heating, spread fire and overcome sprinkler systems.

Section 6 • Accidental Release Measures

- Containment Procedures** **Small Spill and Leak:** Cover with an inert material and allow to cure.
- Large Spill and Leak:** Ventilate area. Cover with an inert material and allow to cure.
- Clean-Up Procedures** Once cured, recover free product and place in suitable container for disposal.
- Evacuation Procedures** Ventilate area of leak or spill. Keep unnecessary and unprotected people away.
- Special Procedures** Wear appropriate protective equipment during cleanup.



MATERIAL SAFETY DATA SHEET

LPS® RTV Silicone

Revision Date: May 13, 2011

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Section 7 • Handling and Storage

Handling: Use with adequate ventilation. Product evolves acetic acid when exposed to water or humid air. Provide ventilation during use to control acetic acid levels within exposure guidelines or use respiratory protection. Avoid skin and eye contact. Wash thoroughly after handling.

Storage: Keep container in a cool, well-ventilated area. Store between 40°F and 120°F (4.4°C and 49°C).

Precautions to be taken in handling and storage: Store aerosols as Level 1 Aerosol (NFPA 30B). Store all materials in a dry, well-ventilated area. Avoid breathing vapors.

Section 8 • Exposure Controls / Personal Protection

Exposure Guidelines:

Component	CASRN	OSHA TWA - PEL	OSHA-STEL	ACGIH-TLV	ACGIH-STEL	NIOSH
Dimethylsiloxane, hydroxyl-terminated	70131-67-8	Not established	Not established	Not established	Not established	Not established
Amorphous silica	7631-86-9	80 mg/m ³ (mineral dusts)	Not established	Not established	Not established	6 mg/m ³ TWA
Ethyltriacetoxysilane	17689-77-9	Not established	Not established	Not established	Not established	Not established
Methyltriacetoxysilane	4253-34-3	Not established	Not established	Not established	Not established	Not established
Nitrogen	7727-37-9	Not established	Not established	Not established	Not established	Not established
Acetic acid (vapor formed during curing)	64-19-7	10 ppm	Not established	10 ppm	15 ppm	10 ppm TWA

*Supplier Recommendation

Engineering Controls: Provide general and/or local exhaust ventilation to keep exposures below the exposure guidelines listed above.

Personal protective equipment

Eye protection: Safety glasses with side shields conforming to appropriate regulations. Eye wash fountain and emergency shower facilities are recommended.

Hand protection: Use chemical resistant gloves conforming to appropriate regulations. Please observe the instructions regarding permeability and breakthrough time that are provided by the supplier of the gloves.

Respiratory protection: Typical use of this product under normal conditions does not require the use of respiratory protection. If airborne concentrations are above the applicable exposure limits (listed above), use NIOSH approved respiratory protection (i.e. organic vapor cartridge).

General Hygiene Considerations: Wash thoroughly after handling. Have eye-wash facilities immediately available.



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LPS® RTV Silicone

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Section 9 • Physical and Chemical Properties

Appearance:	Paste, Gel	Color:	Clear, colorless
Odor:	Acetic acid	Evaporation Rate:	1 (Water=1)
Solubility Description:	Not soluble in water	Flash Point:	> 100°C (212°F)
Boiling Point:	Not Established	Flash Point Method:	Tag-Closed Cup
Specific Gravity (H₂O=1):	1.00 – 1.04 @ 20°C	Decomposition Temperature:	Not Established
Vapor Density (air=1):	Not Established	Auto Ignition Temperature	Not Established
Vapor Pressure:	Not Established	Flammable limits (estimated):	LOWER: Not Established UPPER: Not Established
Rule 1171 PpC:	Not Established	Partition Coefficient (octanol/water):	Not Established
V.O.C. Content:	Aerosol: 3.0%, 31 g/L, 0.26 lb/gal per CARB/OTC/EPA Bulk: Not Applicable	Odor Threshold:	Not Established
Melting Point:	Not Established	Viscosity:	Not Established
pH:	Not Applicable	Volatiles:	3%
Heat of combustion:	Aerosol: <20 kJ/g Bulk: Not Applicable		

Section 10 • Stability and Reactivity

Chemical Stability: Product is stable under recommended storage conditions.

Conditions to Avoid: No specific measures to avoid.

Incompatibility with Various Substances: Reactive or incompatible with strong oxidizing agents. Moisture liberates acetic acid.

Hazardous Decomposition: These products are carbon oxides (CO, CO₂), formaldehyde, hydrogen, metal oxides.

Hazardous Polymerization: Will not occur.



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Section 11 • Toxicological Information

Acute and Chronic Toxicity

A: General Product Information

An acute toxicity study of this product has not been conducted. Information given in this section relates only to individual constituents contained in this preparation.

B: Component Analysis

Component	CASRN	LC-50	LD-50
Dimethylsiloxane, hydroxyl-terminated	70131-67-8	Not Established	Not Established
Amorphous silica	7631-86-9	Not Established	Not Established
Ethyltriacetoxysilane	17689-77-9	Not Established	Not Established
Methyltriacetoxysilane	4253-34-3	Not Established	2,060 mg/kg / oral / rat
Nitrogen	7727-37-9	Not Established	Simple Asphyxiant

*Supplier Data

Section 12 • Ecological Information

Mobility: Viscous paste. Not readily absorbed into soil. **Persistence and degradability:** Non-biodegradable.

Bioaccumulative potential: No bioaccumulation potential **Other adverse effects:** None known.

Ecological studies have not been conducted for this product. The following information is available for component(s) of this product.

Ecotoxicity

Component	CASRN	Test	Species	Results
Dimethylsiloxane, hydroxyl-terminated	70131-67-8			Not Data Available
Amorphous silica	7631-86-9			
Ethyltriacetoxysilane	17689-77-9			
Methyltriacetoxysilane	4253-34-3			
Nitrogen	7727-37-9			

*Supplier Data



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Section 13 • Disposal Considerations

Waste Status: Aerosol cans, if depressurized and emptied to less than 1 inch (2.54 cm) of fluid contents, are classified as non-hazardous waste under 40 CFR 261.7 (U.S.). If disposed of in its received form, the aerosol product carries the waste code D003 (U.S.). Spent material is not considered hazardous waste.

Disposal: Waste must be disposed of in accordance with federal, state, provincial and local environmental control regulations.

Note: Chemical additions to, processing of, or otherwise altering this material may make this waste management information inaccurate, incomplete, or otherwise inappropriate. Furthermore, state and local waste disposal requirements may be more restrictive than federal laws and regulations.

Section 14 • Transport Information

D.O.T. Ground	Shipping Name:	Consumer Commodity	UN Number:	NA
	Hazard Class:	ORM-D	Technical Name:	NA
	Subclass:	NA	Hazard Label:	ORM-D Already on box
	Packing group:	NA		
Road/Rail - ADR/RID :	UN no:	1950	ADR Class:	2
	Packing group:	NA	Classification code:	5A
	Name and Description:	AEROSOLS, asphyxiant	Hazard ID no:	NA
	Labeling:	2.2	Technical Name:	NA
IMDG-IMO	UN no:	1950	Class:	2
	Shipping Name:	AEROSOLS	Subsidiary Risk:	2.2
	Labeling:	2	Packing group:	NA
	Packing Instruction:	P003, LP02	EmS:	F-D, S-U
	Marine pollutant:	No		
IATA-ICAO:	UN no:	1950	Class:	2.2
	Shipping Name:	Aerosols, non-flammable	Subclass	NA
	Packing Instructions:	203, Y203 (Ltd. Qty.)	Packing group:	NA
	Labeling:	Non-Flammable gas	Technical Name:	NA

The preceding information is subject to change and must be verified prior to shipment. It is the responsibility of anyone offering hazardous materials for shipment to ensure compliance with all applicable regulations.



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Section 15 • Regulatory information

U.S. Federal Regulations

RCRA Hazardous Waste No.: D003

Comprehensive Environmental Response and Liability Act of 1980 (CERCLA): None

Toxic Substances Control Act (TSCA):

All components of this product are TSCA inventory listed and/or are exempt.

Superfund Amendments and Reauthorization Act (SARA) Title III

SARA Section 311/312 (40 CFR 370) Hazard Categories: Sudden Release of Pressure, Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard

This product contains the following toxic chemical(s) subject to reporting requirements of SARA Section 313 (40 CFR 372): No individual section 313 components are present at or above 1%.

Section 112 Hazardous Air Pollutants (HAPs): None

State Regulations

California: This product does not contain chemical(s) known to the State of California to cause cancer, birth defects or other reproductive harm.

California and OTC States: This product conforms to consumer product regulations.

New Jersey Right to Know:

Aerosol: Dimethylsiloxane, hydroxyl-terminated 70131-67-8 • Amorphous silica 7631-86-9 • Nitrogen 7727-37-9 • Methyltriacetoxysilane 4253-34-3 • Ethyltriacetoxysilane 17689-77-9

Bulk: Not Applicable

International Regulations

Canadian Environmental Protection Act: All of the components of this product are included on the Canadian Domestic Substances list (DSL).

Canadian Workplace Hazardous Materials Information System WHMIS:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

WHMIS Classification:

Aerosol: Class A, Class D2B



Montreal Protocol listed ingredients:	None
Stockholm Convention listed ingredients:	None
Rotterdam Convention listed ingredients:	None
RoHS Compliant:	Yes



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Section 16 • Other Information

MSDS#13712 Responsible Name: Elena Badiuzzi Compliance Manager Telephone: +1 770 243-8800	HMIS 1996		HMIS III		NFPA Flammability Health Reactivity Special
	Health:	1	Health:	1	
	Flammability:	1	Flammability Aerosol:	2	
			Flammability Bulk:	N/A	
	Reactivity:	0	Physical Hazard Aerosol:	2	
Physical Hazard Bulk:			N/A		

Note: In a fire, this material may generate formaldehyde vapors. Under normal conditions of use no formaldehyde is generated, only small amounts of acetic acid. As a result, the HMIS health rating has been assigned a "1" while the NFPA health rating has been assigned a "2."

Notice to Reader:

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Elena Badiuzzi, Compliance Manager
 LPS Laboratories, A division of Illinois Tool Works