



# U.S. MATERIAL SAFETY DATA SHEET

## LPS RTV Silicone Adhesive & Sealant

### Section 1 • Product and Company Identification

**Manufacturer's Name:** LPS Laboratories

**Part Numbers:** 03712

**Trade Name:** LPS RTV Silicone Adhesive & Sealant

**Chemical Family:** Silicone elastomer

**Address:**

4647 Hugh Howell Road  
Tucker, GA USA 30085-5052

Telephone Number: 770-243-8800

Emergency Telephone Number: 1-800-424-9300 Chemtrec;  
Outside U.S.: (703) 527-3887

#### 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 won't 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, don't hesitate to call us at 770-243-8800.

#### Worker Toxicity

LPS RTV Silicone Adhesive & Sealant is designed to bond to metal, ceramic and rubber / elastomer surfaces to seal out moisture from electrical equipment and connections. It contains silicone-based compounds that generate acetic acid vapor ("vinegar") as they cure that 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 Adhesive & Sealant is not flammable under normal circumstances but may combust when exposed to extremely high temperatures.

#### Disposal

Spent LPS RTV Silicone Adhesive & Sealant is not considered hazardous for disposal.



# U.S. MATERIAL SAFETY DATA SHEET

## LPS RTV Silicone Adhesive & Sealant

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### Section 2 • Hazards Identification

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From a worker safety standpoint, this material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Emergency Overview:** WARNING: Contents under pressure. Uncured product may irritate eyes.

**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 can cause very slight irritation of the respiratory tract.

**Ingestion:** Product has a low order of acute oral toxicity.

**Potential Chronic Health Effects:**

**Carcinogenic Effects:** NTP: No IARC: No OSHA: No

**Mutagenic Effects:** None

**Teratogenic Effects:** None

**Medical conditions aggravated by exposure:** No known applicable information.

**Signs and Symptoms**

No known applicable information. See Section 11 for detailed toxicology information.

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### Section 3 • Composition / Information on Ingredients

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Component	CASRN	Percent by Weight
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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### Section 4 • First Aid Measures

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**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.



# U.S. MATERIAL SAFETY DATA SHEET

## LPS RTV Silicone Adhesive & Sealant

**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. 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.

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### Section 5 • Fire Fighting Measures

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**Flash point:** Not determined (at least greater than 100°C [Tagliabue.]).

**Flammable limits:** LOWER: N.D. UPPER: N.D.    **Autoignition Temperature:** Not determined.

**Products of Combustion:** Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products: carbon oxides, formaldehyde and traces of incompletely burned carbon compounds.

**Firefighting media:** On large fires use dry chemical, foam or water spray. On small fires use carbon dioxide (CO<sub>2</sub>), dry chemical or water spray. Water can be used to cool fire exposed containers.

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

**Protection Clothing (Fire):** Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.

**Special Remarks on Explosion Hazards:** Containers may burst when heated.

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### Section 6 • Accidental Release Measures

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**Small Spill and Leak:** Absorb with an inert material and dispose of properly.

**Large Spill and Leak:** Observe all personal protection equipment recommendations described in Sections 5 and 8. Wipe up or scrape up and contain for disposal. Clean area as appropriate since some silicone materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents. Dispose of saturated absorbant or cleaning materials appropriately, since spontaneous heating may occur. Local, state and federal laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the clean up of releases.

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### Section 7 • Handling and Storage

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**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 eye contact. Avoid skin contact.

**Storage:** Keep container in a well-ventilated area away from sustained direct sunlight. Store below 120°F.



# U.S. MATERIAL SAFETY DATA SHEET

## LPS RTV Silicone Adhesive & Sealant

### Section 8 • Exposure Controls / Personal Protection

Ingredients	CASRN	OSHA PEL-TWA	ACGIH-TLV	Other Limits
Dimethylsiloxane, hydroxyl-terminated	70131-67-8	Not available	Not available	Not available
Amorphous silica	7631-86-9	Not available	Not available	OEL-AUSTRIA: MAK 4 mg/m <sup>3</sup>
Ethyltriacetoxysilane*	17689-77-9	Not available	Not available	Not available
Methyltriacetoxysilane*	4253-34-3	Not available	Not available	Not available
Nitrogen	7727-37-9	Not available	Not available	Not available

**Engineering Controls:** \*Acetic acid is formed upon contact with water or humid air. Provide adequate ventilation to control exposures within guidelines of OSHA PEL: TWA 10 ppm and ACGIH TLV: TWA 10 ppm, STEL 15 ppm.

**Personal Protection:**

**Eyes:** Safety glasses.

**Respiratory :** None required for normal work where adequate ventilation is provided. Use NIOSH-approved self-contained positive pressure respirators in confined spaces and for emergencies.

**Hands:** Use Silver Shield® or 4H®.

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

### Section 9 • Physical and Chemical Properties

**Appearance:** Clear, colorless, paste.

**Odor:** Acetic acid

**Solubility:** Not soluble in water.

**Specific Gravity:** 1.0 – 1.04

**pH:** Not applicable.

**VOC Content:** 3%, 31 g/L, 0.259 lbs./gal.

**% Volatiles by volume @ 21°C (70°F):** 3%

**Boiling Point:** Not Determined.

**Melting Point:** Not Determined.

**Vapor Density (Air=1):** Not Determined.

**Vapor Pressure (mm Hg):** Not Determined

**Evaporation Rate (BuAc=1):** Not Determined

### Section 10 • Stability and Reactivity

**Stability and Reactivity:** The product is stable.

**Incompatibility with Various Substances:** Oxidizing material can cause a reaction. Water, moisture or humid air can cause hazardous vapors to form.

**Hazardous decomposition products:** Carbon oxides, formaldehyde, hydrogen, metal oxides.

**Hazardous polymerization:** Will not occur.



# U.S. MATERIAL SAFETY DATA SHEET

## LPS RTV Silicone Adhesive & Sealant

### Section 11 • Toxicological Information

#### Acute and Chronic Toxicity

A: General Product Information

Following exposure to vapors, this material can produce central nervous system depression. High atmospheric concentrations can result in eye, nasal and respiratory tract irritation. However, if handled in accordance with good industrial hygiene practice, this product will not present a significant hazard in the workplace.

Ingredients	CASRN	LC-50	LD-50	Other
Dimethylsiloxane, hydroxyl-terminated	70131-67-8	Not Available	>16 ml/kg (dermal)	Not Available
Amorphous silica	7631-86-9	Not Available	Not Available	LCLo (lowest lethal concentration) / rat : 2190 mg/m <sup>3</sup> /4H
Ethyltriacetoxysilane	17689-77-9	Not Available	Not Available	Not Available
Methyltriacetoxysilane	4253-34-3	Not Available	2060 mg/kg/oral/rat	Not available
Nitrogen	7727-37-9	Not Available	Not Available	Not Available

### 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.

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

### Section 13 • Disposal Considerations

**Waste Status:** If discarded in its purchased form, this material carries waste code D003 (reactive: pressurized container). Spent material is not considered hazardous waste.

**Disposal:** Empty containers may be recycled. Waste must be disposed of in accordance with federal, state 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.



# U.S. MATERIAL SAFETY DATA SHEET

## LPS RTV Silicone Adhesive & Sealant

### Section 14 • Transport Information

<b>U.S. D.O.T. - Ground:</b>	UN no:	N/A	Class:	ORM-D
	Proper Shipping Name:	Consumer Commodity	Labeling:	ORM-D Already on Box
	Packing Group:	N/A	Technical Name:	N/A

<b>IMDG-IMO</b>	UN no:	1950	Class:	2
	Shipping Name:	AEROSOLS	Packing Instructions:	P003
	EmS:	F-D, S-U	Packing Group:	---

<b>IATA-ICAO:</b>	UN no:	1950	Class:	2.2
	Proper Shipping Name:	Aerosols, non-flammable	Hazard Label:	Non-flammable gas
	Packing Group:	N/A	Technical Name:	N/A

### Section 15 • Regulatory information

<b>U.S. Federal Regulations:</b>	<b>TSCA 8(b) inventory:</b> All of the ingredients are listed on the TSCA inventory or are exempt.
	<b>RCRA Hazardous Waste No.:</b> D003 (as received package). Spent and depressurized items are non-hazardous.
	<b>CERCLA Sections 102a/103 Hazardous Substances (40 CFR part 370) Reportable Quantity:</b> None.
	<b>SARA TITLE III Sections 311/312 hazardous Categorization (40 CFR part 370):</b> Release of Pressure Hazard, Immediate (Acute) Health Hazard,
	<b>SARA TITLE III Section 313:</b> None
<b>Hazardous Air Pollutants (U.S. EPA):</b> None	
<b>State Regulations:</b>	<b>New Jersey RTK:</b> Dimethylsiloxane, hydroxyl-terminated (CASRN: 70131-67-8), Amorphous silica (CASRN: 7631-86-9), Nitrogen (CASRN: 7727-37-9), Methyltriacetoxysilane (CASRN: 4253-34-3), Ethyltriacetoxysilane (CASRN: 17689-77-9)
	<b>California Proposition 65:</b> None.
	<b>California and OTC States:</b> This product conforms to consumer regulations.



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## LPS RTV Silicone Adhesive & Sealant

### Section 16 • Other Information

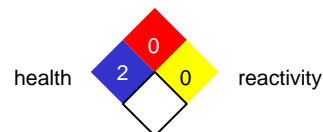
MSDS# 103712

Responsible Name: Ed Williams  
**Technical Manager**

**HMIS**  
Health: 1  
Flammability: 0  
Reactivity: 0

**NFPA**

flammability



Note: In a fire the material as received may generate formaldehyde vapors. Under normal conditions of use no formaldehyde is generated but small amounts of acetic acid vapor are generated upon curing. As a result, the HMIS health rating has been assigned a "1" but 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.

Ed Williams, Technical Manager  
LPS Laboratories  
A division of Illinois Tool Works

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