



MATERIAL SAFETY DATA SHEET

LPS® Strong Steel Sticks

Revision Date: October 14, 2011

Supersedes: October 21, 2008

Section 1 • Product and Company Identification

Product Name: LPS® Strong Steel Sticks

Part Number(s): 60159, C60159

Chemical Name: Filled Epoxy Resin

Product Use: A "ready-to-mix", fast curing, high strength adhesive epoxy putty for emergency repairs of cracks and rebuilding of surfaces on metal, concrete, wood, fiberglass and ceramics.

Manufacturer Information: LPS Laboratories, 4647 Hugh Howell Road, 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>

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: Not applicable

Bulk: CAUTION: Irritating to eyes and skin.

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

Potential Acute Health Effects:

Eyes: Irritating to eyes.

Skin: Prolonged or repeated skin contact can cause defatting and drying of the skin. Possibly a skin sensitizer.

Inhalation: Not a likely route of exposure.

Ingestion: Product has a low order of acute oral toxicity, but ingestion may cause a gastrointestinal irritation.

Potential Chronic Health Effects:

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

Mutagenic Effects: None

Teratogenic Effects: None

Target Organs: None



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Medical conditions aggravated by exposure:
Dermatitis and eczema.

Signs and Symptoms

Stinging, tearing, redness and swelling of eyes. Repeated or prolonged skin contact can cause redness, irritation, skin dryness or cracking. Ingestion of this material may cause coughing and irritation.

Section 3 • Composition / Information on Ingredients

Component	CASRN	Weight Percent
Epoxy Resin	25068-38-6 / 25036-25-3	10 - 25%
2,4,6-tris (dimethylaminomethyl)phenol	90-72-2	0.5 - 1.5%

Section 4 • First Aid Measures

Eyes:	Check for and remove contact lenses. Immediately, 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 if irritation persists.
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:	Not applicable.
Ingestion:	DO NOT induce vomiting unless directed to do so by medical personnel. If conscious, give 2 to 3 glasses of 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, aldehydes, acids, oxides of nitrogen and sulphur.		
General Fire Hazards:	None		
Firefighting media:	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use CO2, water spray, fog or foam. Firefighting personal are required to use respiratory and eye protection.		
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.		
Special Remarks on Explosion Hazards:	None		



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Section 6 • Accidental Release Measures

- Containment Procedures:**
- Small Spill and Leak:** Scrape up as much material as possible. Place in a closed container until ready to dispose.
- Large Spill and Leak:** Scrape up as much material as possible. Place in a closed container until ready to dispose.
- Clean-Up Procedures:** Recover free product and place in a suitable container for disposal.
- Evacuation Procedures:** Keep unnecessary and unprotected people away.
- Special Procedures:** Wear appropriate protective equipment during cleanup.

Section 7 • Handling and Storage

- Handling:** Wash thoroughly after handling.
- Storage:** Keep in original container at ambient temperatures.

Precautions to be taken in handling and storage:
Store all materials in a dry, well-ventilated area.

Section 8 • Exposure Controls / Personal Protection

Exposure Guidelines:

Component	CASRN	OSHA	ACGIH	NIOSH	Supplier
Epoxy Resin	25068-38-6 / 25036-25-3	10 mg/m ³ (respirable dust) PEL	0.025 mg/m ³ (respirable dust) TLV	0.05 mg/m ³ (respirable dust) TWA	None reported
2,4,6-tris (dimethylaminomethyl)phenol	90-72-2	Not established	Not established	Not established	None reported

Engineering Controls: Normal room ventilation is usually adequate. If necessary, provide general and/or local exhaust ventilation to keep exposures below the exposure guidelines above.

Personal protective equipment

- Eye protection:** If machining the cured product, it is recommended to wear dust-proof goggles.
- Hand protection:** Use chemically resistant protective 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.
- General Hygiene Considerations:** Wash thoroughly after handling. Have eye-wash facilities immediately available.



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Section 9 • Physical and Chemical Properties

Appearance:	Putty stick	Color:	Gray
Odor:	Sulphur	Evaporation Rate:	None
Solubility Description:	Not soluble in water	Flash Point:	Not applicable
Boiling Point:	Not applicable	Flash Point Method:	Tag-Closed Cup
Specific Gravity (H₂O=1):	2.20 - 2.25 @ 20°C	Decomposition Temperature:	Not established
Vapor Density (air = 1):	Nil	Auto ignition temperature:	Not established
Vapor Pressure:	Nil	Flammable limits (estimated):	LOWER: Not available UPPER: Not available
Rule 1171 PPc:	Not applicable	Partition Coefficient (octanol/water):	Not applicable
V.O.C. Content:	Aerosol: Not applicable Bulk: Not applicable	Odor Threshold:	Not established
Melting Point:	Not established	Viscosity:	Not applicable
pH:	Not applicable	Volatiles:	< 1%
Heat of combustion:	Aerosol: Not applicable Bulk: Not established		

Section 10 • Stability and Reactivity

Chemical Stability:	Product is stable under recommended storage conditions.
Conditions to Avoid:	Keep away from open flames, hot surfaces and ignition sources.
Incompatibility:	None under typical use circumstances.
Hazardous Decomposition:	These products are carbon oxides (CO, CO ₂), aldehydes, acids, oxides of sulphur and nitrogen.
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
Epoxy Resin	25068-38-6 / 25036-25-3	Not established	11,400 mg/kg / oral / rat*
			20,000 mg/kg / dermal / rabbit
2,4,6-tris (dimethylaminomethyl)phenol	90-72-2	Not established	1000 mg/kg / oral / rat*
			1280 mg/kg / dermal / rat*

* Supplier Data

Section 12 • Ecological Information

Mobility: Unknown. **Persistence / Degradability:** Not readily biodegradable

Bioaccumulative potential: Unknown. **Other adverse effects:** Not established

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

Section 13 • Disposal Considerations

Waste Status: In its purchased form, this material does not meet the definition of a RCRA hazardous waste (40 CFR 261).

Disposal: Waste must be disposed of in accordance with any and all applicable environmental control rules and/or 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

This product is not regulated by any mode of transportation.

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.: None

Comprehensive Environmental Response, Compensation 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:
None

This product contains the following toxic chemical(s) subject to reporting requirements of SARA Section 313 (40 CFR 372):
No individual section 313 component is 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 is not regulated by consumer product regulations.

New Jersey Right to Know:

Aerosol: Not applicable
Bulk: Magnesium Silicate Hydrate 14807-96-6 • Polyether Polymercaptan NJTS 800938-5952 • Iron / Silicon / Titanium Alloy 7439-89-6 • Sodium Calcium Magnesium Silicate 65997-17-3 • Nypheleine Syenite 17244-96-5

International Regulations

Canadian Environmental Protection Act (CEPA):
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:

Bulk: Class D2B



Other Regulations:

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#: 60159 MSDS Preparation 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:	0	Flammability Aerosol:	NA	
			Flammability Bulk:	0	
		Reactivity:	0	Physical Hazard Aerosol:	NA
				Physical Hazard Bulk:	0

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