



# SAFETY DATA SHEET

## LPS Strong Steel Stick Renewal Composite

Revision 4

Revision Date 29/5/07

Supersedes: 12/23/05

### Section 1 – Identity of the Substance/Preparation and Company/Undertaking

**Product Name:** LPS STRONG STEEL STICK RENEWAL COMPOSITE

**Part Numbers:** M60159

**Product Use:** A “ready-to-mix,” fast-curing, high-strength adhesive putty for emergency repairs of metal cracks and rebuilding of metal surfaces.

**Supplier:** Geocel Limited, Western Wood Way, Langage Science Park, Plympton, Plymouth, PL7 5BG United Kingdom

**TEL:** +44 (0)1752 202060

**FAX:** +44 (0)1752 334384

**In Case of Emergency:** +001 703-527-3887

**Manufacturer:** LPS Laboratories, 4647 Hugh Howell Rd., Tucker, GA 30085 (U.S.A.)  
<http://www.lpslabs.com>

### Section 2 – Hazards identification

**Human and Environmental Hazards** This preparation is considered hazardous according to European Union Directives 67/548/EEC and 1999/45/EC. This preparation is mildly irritating to skin and moderately irritating to eyes in its uncured form.

### Section 3 – Composition / Information on Ingredients

Ingredient	EC No.	CASRN	Classification	Weight Percent
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane	216-823-5	1675-54-3	[Xi] R36/38, R43	10-15%
2,4,6-tris(dimethylaminomethyl)phenol	202-013-9	90-72-2	[Xn] R22; [Xi] R36/38	1-2%
Crystalline Silica	238-878-4	14808-60-7	R48/20	1-5%

### Section 4 – First Aid Measures

- Eyes:** Contact may cause irritation. Flush eyes with running water for at least 15 minutes, keeping eyelids open. Get medical attention if irritation persists. Get medical attention if cured material bonds to eye surface.
- Skin:** This reactive preparation requires mixing by hand in order to work. Do not wear jewelry while applying this product as reactive and irritating ingredients may be pressed next to skin underneath rings, etc. Chemical reaction generates mild heat and results in strong adhesive bond within 1 minute. Mechanically remove cured product from skin using mildly abrasive pad, then wash skin with soap and water. Get medical attention if irritation persists.
- Inhalation:** Mild heat generated from reaction may evolve irritating vapours. If breathing is difficult, give oxygen and get medical attention. If not breathing, give artificial respiration and get medical attention.
- 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

**Products of Combustion:** carbon monoxide, carbon dioxide, aldehydes, acids, oxides of nitrogen and sulphur.

**General Fire Hazards:** None.

**Firefighting media:** Dry chemical, foam or carbon dioxide.

**Sensitivity to Impact:** None.

**Sensitivity to Static Discharge:** None.

**Protection Clothing (Fire):** wear protective clothing and equipment suitable for the surrounding fire, including helmet, face mask, and self-contained breathing apparatus.

**Rate of Burning:** Not Available.

### Section 6 – Accidental Release Measures

**Containment Procedures** Recover spilled or unused material when possible. Enclose in plastic sheeting and place in air-tight container for long-term storage.

**Clean-Up Procedures** Physically remove uncured material as quickly as possible. Remove unwanted cured material from surfaces using a hammer and chisel, abrasive disc, or propane torch. Wash areas exposed to uncured material with detergent and water.

**Evacuation Procedures** None anticipated.

**Special Procedures** None anticipated.

### Section 7 – Handling and Storage

**Handling:** Use only with adequate ventilation. Wash thoroughly after handling.

**Storage:** Keep in original container. Keep container tightly closed. Store below 50C.

### Section 8 – Exposure Controls / Personal Protection

Component	EC No.	LT EXP	ST EXP	ACGIH TLV-TWA	ACGIH STEL
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane	216-823-5	MAC-TGG 5 mg/m <sup>3</sup> (respirable dust)	MAC-TGG 10 mg/m <sup>3</sup> (total dust)	Not Available	Not Available
2,4,6-tris(dimethylaminomethyl)phenol	202-013-9	Not Available	Not Available	Not Available	Not Available
Crystalline Silica	238-878-4	OEL-UK 0.3 mg/m <sup>3</sup>	Not Available	0.05 mg/m <sup>3</sup>	Not Available

**Engineering measures** Normal room ventilation is usually adequate. If necessary, use appropriate local exhaust ventilation to keep exposures below the regulated limits.

**Personal protective equipment**

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

**Eye protection**



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<b>Hand protection</b>	Remove jewelry (rings, watches, etc.) before use. If mixing of material with bare hands becomes irritating, use chemically resistant gloves. At the time of the writing of this document, this product has been in commerce for more than 10 years with no reported incidents of skin sensitization.
<b>Respiratory protection</b>	Appropriate organic vapor filtering respirators if exposure levels are met.
<b>Hygiene measures</b>	Use good hygiene practices when handling this material including changing and laundering work clothes after use. An eyewash fountain should be available in the work area.
<b>Environmental exposure controls</b>	Contain and recover spilled material when possible.

### Section 9 – Physical and Chemical Properties

<b>Appearance:</b>	Putty stick.	<b>Colour:</b>	Gray and black
<b>Odour / Taste:</b>	Sulphur	<b>Vapour Pressure:</b>	Nil.
<b>Solubility Description:</b>	Insoluble	<b>Evaporation Rate:</b>	Not Applicable
<b>Boiling Point (°C):</b>	Not Established	<b>Flash Point (°C):</b>	None
<b>Specific Gravity (Water = 1)</b>	1.89 @ 20°C	<b>Flash Point Method:</b>	PM Closed cup.
<b>Vapour Density (air =1)</b>	Nil.	<b>Flammable limits:</b>	Not Established
<b>V.O.C. Content</b>	None	<b>Autoignition Temperature:</b>	Not Established
<b>Partition Coefficient (Water/ Octanol):</b>	>1	<b>pH:</b>	Not Applicable

### Section 10 – Chemical Stability and Reactivity

<b>Chemical Stability:</b>	Product is stable under recommended storage conditions.
<b>Conditions to Avoid:</b>	Keep away from heat and ignition sources.
<b>Incompatibility:</b>	Avoid contact with oxidizing agents.
<b>Hazardous Decomposition:</b>	Thermal decomposition may yield carbon monoxide, carbon dioxide, aldehydes, acids, oxides of nitrogen and sulphur.
<b>Hazardous Polymerization:</b>	Will not occur.

### Section 11 – Toxicological Information

Ingredients	CASRN	LC-50	LD-50
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane	1675-54-3	Not Established	11300 µL/kg –oral-rat
2,4,6-tris(dimethylaminomethyl)phenol	90-72-2	Not Established	1200 mg/kg-oral-rat
Crystalline Silica	14808-60-7	Not Established	Not Established



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### Section 12 – Ecological Information

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**Mobility:** Non-volatile. Not absorbed by soil. **Persistence and degradability:** Only slightly biodegradable.

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

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### Section 13 – Disposal Considerations

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**Disposal:** Waste must be disposed of in accordance with national 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.

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### Section 14 – Transportation Information

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This product is not classified for the purposes of transportation.

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### Section 15 – Regulatory Information

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**Warning Symbol(s):** Xi

**Risk Phrases:** R-36/38 Irritating to eyes and skin.

**Safety Phrases:** S-2 Keep out of the reach of children.  
S 24/25 Avoid contact with skin and eyes.  
S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S 28 After contact with skin, wash immediately with plenty of soap and water.

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### Section 16 – Other Information

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**User Notes:** The purpose of the above information is to describe this product only in terms of Health and Safety requirements. The information given therefore, should not be construed as guaranteeing specific properties or specification. Customers should satisfy themselves as to the suitability and completeness of this information for their own particular use, bearing in mind any other Health and Safety legislation or regulations. The information and recommendations in this publication are to the best of our knowledge reliable. However, nothing herein is construed as a warranty or representation. Statements concerning the use of the products described herein are not to be construed as recommending the infringement of any patent and no liability for infringement arising out of any such use is to be assumed.

**Information Sources:** ESIS: European Chemical Substances Information  
Supplier Safety Data Sheets

**Full R- Phrases:**

R-43 May cause sensitization by skin contact.  
R-22 Harmful if swallowed.  
R-36/38 Irritating to eyes and skin.  
R-48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.