



# MATERIAL SAFETY DATA SHEET

## Floor Patch (Hardener)

Revision Date: November 16, 2010

Supercedes: November 8, 2010

### Section 1 • Product and Company Identification

**Product Name:** Floor Patch (Hardener)

**Part Number:** 60943

**Chemical Name:** Epoxy Resin

**Product Use:** An epoxy resin used to repairs holes and cracks in concrete floors, walls, and other surfaces.

**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

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

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

**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 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 800/241-8334.

#### Worker Toxicity

Floor Patch is a renewal composite resin used to repair holes and cracks in concrete floors, walls, and other surfaces. This product is received in three separate forms: hardener, resin, and sand. This MSDS is for the Floor Patch kit component hardener. Avoid exposure to unprotected skin when handling the hardener; it could cause severe skin irritation or burns. Do not get any of the hardener in your eyes; it could cause permanent eye damage (i.e. severe irritation or burns). Do not breathe the hardener, it could cause respiratory irritation. For more exposure and first aid information, refer to MSDS Sections 2, 8 and 11.

#### Flammability

The Floor Patch hardener is non-flammable.

#### Disposal

Dispose of in accordance with local, state, provincial, and federal regulations. See section 13 for more details.



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### Section 2 • Hazards Identification

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*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:** DANGER: Corrosive. Toxic. Potential Sensitizer. Irritant.

**Primary route(s) of entry:** Eye, Skin, and inhalation.

#### Potential Acute Health Effects:

**Eyes:** The liquid can cause severe irritation or burns, with possible permanent eye damage. DETA vapor can cause eye irritation and blurred vision.

**Skin:** Causes severe irritation or burns. DETA can be absorbed through the skin on prolonged or repeated contact.

**Inhalation:** Can cause respiratory irritation; high vapor concentrations can cause severe respiratory irritation, nausea, and vomiting.

**Ingestion:** May cause burns of mouth and throat, abdominal pain, nausea, vomiting, and diarrhea.

#### Potential Chronic Health Effects:

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

**Mutagenic Effects:** None

**Teratogenic Effects:** None

**Target Organs:** None known.

**Medical conditions aggravated by exposure:** Persons with chronic respiratory diseases or lung disease, eye disease, skin disorders, and allergies should avoid exposure.

#### Signs and Symptoms

Discomfort or pain in eyes. Blurred vision. Excess blinking and tear production, with possible redness and swelling of eyes. Repeated or prolonged skin contact can cause redness, irritation, scaling of the skin (dermatitis). Breathing of this material may cause dryness, sore throat, cough, tightness of chest, shortness of breath.

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### Section 3 • Composition / Information on Ingredients

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Component	CASRN	Weight Percent
Bisphenol A	80-05-7	60 - 100%
Diethylenetriamine	111-40-0	30 - 60%



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### Section 4 • First Aid Measures

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- 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 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 or if chemical burns are present.
- 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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**Products of Combustion:** None known.

**General Fire Hazards:** High heat will cause product to boil, evolving vapor that could cause explosive rupture of closed containers.

**Firefighting media:** SMALL FIRE: Use DRY chemical powder.  
LARGE FIRE: Use CO<sub>2</sub> or dry chemical. Cool containing vessels with water jet in order to prevent pressure build-up, or explosions.

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

**Protection Clothing (Fire):** None.

**Special Remarks on Explosion Hazards:** None.

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### Section 6 • Accidental Release Measures

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- |                               |  |  |
|-------------------------------|--|--|
| <b>Containment Procedures</b> | <b>Small Spill and Leak:</b>                                       | Absorb with an inert material and dispose of properly.   |
|                               | <b>Large Spill and Leak:</b>                                       | Secure the area and control access. Dike far ahead of a liquid spill to ensure complete collection. Pick up free liquid for disposal using absorbent pads, sand, or other inert non-combustible absorbent materials. Place into appropriate waste containers for later disposal. |
| <b>Clean-Up Procedures</b>    | Recover free product and place in suitable container for disposal. |  |
| <b>Evacuation Procedures</b>  | Evacuate area, and keep unnecessary and unprotected people away.   |  |
| <b>Special Procedures</b>     | Wear appropriate protective equipment during cleanup.              |  |

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### Section 7 • Handling and Storage

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**Handling:** Use with adequate ventilation. Avoid breathing vapor or mist. Avoid contact with eyes and skin. Do not reuse containers without proper cleaning or reconditioning.



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**Storage:** Store in a cool, dry, well ventilated area away from sources of heat, combustible materials, and incompatible substances. Keep container tightly closed when not in use. Do not store in reactive metal containers. Keep away from acids, oxidizers.

### Section 8 • Exposure Controls / Personal Protection

#### Exposure Guidelines:

Component	CASRN	OSHA TWA-PEL	OSHA STEL	ACGIH TLV	ACGIH STEL	NIOSH
Bisphenol A	80-05-7	Not Established	Not Established	Not Established	Not Established	Not Established
Diethylenetriamine	111-40-0	Not Established	Not Established	1 ppm	Not Established	Not Established

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

#### Personal protective equipment:

##### Eye protection:

Safety glasses with side shields conforming to appropriate regulations. Where there is reasonable probability of liquid contact, wear splash-proof goggles. Eye wash fountain and emergency shower facilities are recommended.

##### Hand protection:

Use chemically resistant gloves (i.e., nitrile). Please observe the instructions regarding permeability and breakthrough time that are provided by the supplier of the gloves. Take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion and the contact time.

##### Respiratory protection:

If airborne concentrations are above the applicable exposure limits (listed above), use NIOSH approved 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

<b>Appearance:</b>	Liquid	<b>Color:</b>	Amber
<b>Odor:</b>	Ammonia	<b>Evaporation Rate:</b>	Not Established
<b>Solubility Description:</b>	1.4% in water	<b>Flash Point:</b>	102.7°C(217°F)
<b>Boiling Point:</b>	205°C(401°F)	<b>Flash Point Method:</b>	Pensky-Martin
<b>Specific Gravity (H2O=1):</b>	1.02-1.04	<b>Decomposition Temperature:</b>	Not Established
<b>Vapor Density (air = 1):</b>	3.5 (Diethylenetriamine)	<b>Auto ignition temperature:</b>	Not Established
<b>Vapor Pressure:</b>	<0.1 mmHg at 25°C	<b>Flammable limits (estimated):</b>	LOWER: N.E. UPPER: N.E.
<b>Rule 1171 PpC:</b>	Not Applicable	<b>Partition Coefficient (octanol/water):</b>	Not Established
<b>V.O.C. Content:</b>	Aerosol: Not Applicable Bulk: 0%, 0 g/L	<b>Odor Threshold:</b>	Not Established
<b>Melting Point:</b>	<-18°C(-0.4°F)	<b>Viscosity:</b>	Not Established
<b>pH:</b>	Alkaline	<b>Volatiles:</b>	0%
<b>Heat of combustion:</b>	Not Established		

### Section 10 • Stability and Reactivity

<b>Chemical Stability:</b>	Product is stable under recommended storage conditions.
<b>Conditions to Avoid:</b>	Extreme heat or open flame. Product slowly corrodes copper, aluminum, zinc, and galvanized surfaces.
<b>Incompatibility:</b>	Strong oxidizers, acids, reactive metals. Sodium or calcium hypochlorite. Peroxides. Materials reactive with hydroxyl compounds. Nitrites, nitrosating agents, and nitrous oxide atmospheres.
<b>Hazardous Decomposition:</b>	May form carbon oxides, nitrogen oxides, hydrocarbons and amine vapors when heated to decomposition.
<b>Hazardous Polymerization:</b>	Will not occur.

### 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.



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### B: Component Analysis

Component	CASRN	LC-50	LD-50
Bisphenol A	80-05-7	Not Established	Not Established
Diethylenetriamine	111-40-0	Not Established	Not Established

### Section 12 • Ecological Information

<b>Mobility:</b>	Not Established	<b>Persistence and degradability:</b>	Not Established
<b>Bioaccumulative potential:</b>	Not Established	<b>Other Adverse Effects:</b>	None Known

#### Ecotoxicity:

Effect on Organisms	Component	CASRN	Test	Species	Results
Acute Toxicity on Fishes	No Data Available				
Acute Toxicity on Daphnia					
Bacterial inhibition					
Growth inhibition of algae					
Bioaccumulation in fish					

### Section 13 • Disposal Considerations

**Waste Status:** If disposed of in its received form, this item is not considered a hazardous waste. (U.S.)

**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.



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### Section 14 • Transport Information

<b>D.O.T. Ground</b>	<b>Shipping Name:</b>	Amines, liquid, corrosive, n.o.s.	<b>UN Number:</b>	2735
	<b>Hazard Class:</b>	8	<b>Technical Name:</b>	NA
	<b>Subclass:</b>	NA	<b>Hazard Label:</b>	Corrosive
	<b>Packing group:</b>	III		
<b>Road/Rail - ADR/RID :</b>	<b>UN no:</b>	2735	<b>ADR Class:</b>	8
	<b>Packing group:</b>	III	<b>Classification code:</b>	C7
	<b>Name and Description:</b>	Amines, liquid, corrosive, n.o.s.	<b>Hazard ID no:</b>	80
	<b>Labeling:</b>	8	<b>Technical Name:</b>	NA
<b>IMDG-IMO</b>	<b>UN no:</b>	2735	<b>Class:</b>	8
	<b>Shipping Name:</b>	Amines, liquid, corrosive, n.o.s.	<b>Subsidiary Risk:</b>	NA
	<b>Labeling:</b>	Corrosive	<b>Packing group:</b>	III
	<b>Marine pollutant:</b>	NO	<b>EmS:</b>	F-A, S-B
	<b>Technical Name:</b>	N A	<b>Packing Instructions</b>	P001, LP01
<b>IATA-ICAO: *See note below</b>	<b>UN no:</b>	2735	<b>Class:</b>	8
	<b>Shipping Name:</b>	Amines, liquid, corrosive, n.o.s.	<b>Subclass</b>	NA
	<b>Packing group:</b>	III	<b>Packing instructions:</b>	354, Y342 (Ltd. Qty.), 856 (CAO)
	<b>Labeling:</b>	Corrosive	<b>Technical Name:</b>	NA

### Section 15 • Regulatory Information

#### U.S. Federal Regulations

**RCRA Hazardous Waste No.:** None

**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:**

Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard.

**This product contains the following toxic chemical(s) subject to reporting requirements of SARA Title III Section 313 (40 CFR 372):**

Bisphenol A 80-05-7

**Section 112 Hazardous Air Pollutants (HAPs):** None



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### State Regulations

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

**California and OTC States:** This product is not regulated under consumer product regulations.

**New Jersey Right to Know:** Bisphenol A 80-05-7 • Diethylenetriamine 111-40-0

### 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:

Class D2A, Class D2B, Class E

### Other Regulations

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

## Section 16 • Other Information

MSDS# 160941 LPS® Floor Patch (Hardener) Responsible Name: Clea George Regulatory Affairs Coordinator Telephone: +1 770 243-8800	HMIS 1996		HMIS III		<b>NFPA</b> Flammability  Health      Reactivity
	Health:	2	Health:	[/]2	
	Flammability:	1	Flammability: aerosol	N.A.	
			Flammability: bulk	1	
Reactivity:	1	Physical Hazard: aerosol	N.A.		
		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.

Clea L George, Regulatory Affairs Coordinator  
LPS Laboratories  
A division of Illinois Tool Works