



LPS LABORATORIES
MSDS
MATERIAL SAFETY DATA SHEET

Section 1 - Product Identification and Use

Manufacturer's Name:

LPS Laboratories

Trade Name:

LPS Floor Patch (base)

Address (Number Street):

4647 Hugh Howell Road

Chemical Family:

Epoxy Resin

Address (City, State, Zip):

Tucker, GA 30085-5052

Part Numbers:

60943 (40 lbs.)

Telephone Number: 770-934-7800

Emergency Telephone Number: 1-800-424-9300 Chemtrec

Outside U.S.: (703) 527-3887

Hazardous Materials Description and proper shipping name (49 CFR 172.101): Not Regulated

TSCA Inventory:

All of the ingredients are listed on the TSCA inventory.

HMIS Labeling:

Health: 2

Flammability: 1

Reactivity: 1

Section 2 - Hazardous Ingredients / Identity Information

Ingredients	CAS Numbers	%WW	OSHA PEL	ACGIH TLV	OTHER LIMITS
Bisphenol A/Epichlorohydrin Resin	25068-38-6	60-100	N.E.	N.E.	None
Alkyl Glycidyl Ether	68609-97-2	10-30	N.E.	N.E.	None
Carbon black	1333-86-4	0.1-1	3.5 mg/m ³	3.5 mg/m ³	None

Section 3 - Physical / Chemical Characteristics

Boiling point (F°):	> 500°F	Weight per gallon:	10 lbs.
Vapor pressure (mmHg) @20°C:	< 1mm	Percent volatile by volume (%):	0
Vapor density (Air = 1):	> 1	Evaporation rate (n-Butyl Acetate = 1):	< 1
Solubility in water:	Insoluble		
Appearance and odor:	Viscous liquid with low odor.		

Section 4 - Fire and Explosion Hazard

Flash point (method used): > 400 ° F (PMCC) **Flammable limits:** Upper: N.E. Lower: N.E.

Extinguishing media: Use water fog, foam, carbon dioxide (CO₂) or dry chemical

Special fire fighting procedures: Wear self-contained breathing apparatus and complete personal protective equipment. Remove all ignition sources. Use a water spray to cool fire exposed containers.

Unusual fire and explosive hazards: Heating above 300 deg F may cause slow oxidative decomposition.

N.E. = Not established
N.A. = Not applicable

Section 5 - Health Hazard Data

Primary route(s) of entry: Skin, eyes

Health hazard/effects of over exposure:

Inhalation: The low vapor pressure of the resin makes inhalation unlikely in normal use.

Eyes: Moderate irritant. Contact at elevated temperatures can cause thermal burns.

Skin: Moderate irritant. Contact at elevated temperatures can cause thermal burns. May cause sensitization.

Ingestion: Acute oral toxicity is low. May cause gastric distress.

Chronic Effects of Overexposure: Prolonged contact with the skin may result in skin irritation and sensitization.

Carcinogenicity: OSHA: No ACGIH: No NTP: No IARC: Yes Cancer-suspect constituent(s) : Carbon black

Mutagenicity (Ames Test): Both positive and negative results for CAS# 25068-38-6.

Medical conditions aggravated by exposure: Pre-existing eye, skin and respiratory disorders may be aggravated by exposure to this product. Pre-existing skin or lung allergies may increase the chance of developing increased allergy symptoms.

Emergency and first aid procedures:

Inhalation: Remove patient to fresh air. Administer oxygen if breathing is difficult. Get medical attention if symptoms persist.

Eyes: Flush with plenty of water for at least 15 minutes and seek immediate medical attention.

Skin: Immediately remove contaminated clothing and excess contaminant. Flush skin with water. Wash thoroughly with soap and water. Consult a physician if irritation develops.

Ingestion: Do not induce vomiting. Give to glasses of water to dilute if patient is conscious. Get medical attention.

Section 6 - Reactivity Data

Stability: Stable

Conditions to avoid: Excessive heat and open flame.

Incompatibility (Materials to avoid): Strong oxidizing agents and mineral acids. Uncontrolled curing with amine curing agents in masses greater than 2 inches thick.

Hazardous decomposition products: Fumes produced when heated to decomposition may include: oxides of carbon, aldehydes and acids .

Hazardous polymerization: Will not occur.

Section 7 - Precautions for Safe Handling and Use

Steps to be taken in case material is released or spilled: Dike spill. Absorb with inert material and collect for disposal. Flush area with water. Prevent washings from entering waterways.

Waste disposal methods: Not a hazardous waste. Dispose of resin material in accordance with local, state and federal regulations.

RCRA Hazardous Waste No.: N.A.

CERCLA Reportable Quantity: N.A.

SARA TITLE III Chemicals: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered under applicable definitions, to meet the following categories: An immediate health hazard. This product contains no ingredients subject to the reporting requirements of Sara Title III, Section 313. (40CFR Part 372)

Section 8 - Control Measures

Respiratory Protection: None required at normal handling temperatures and conditions. Use NIOSH approved organic vapor cartridges for uncured resin and dust/particle respirators during grinding/sanding operations of cured resin as exposure levels dictate.

Ventilation: Local exhaust ventilation is preferred although good general mechanical ventilation is usually adequate for most industrial applications. Local exhaust is recommended for confined areas

Protective gloves: For operations where contact can occur, wear chemical resistant gloves.

Eye protection: Chemical splash goggles or safety glasses with side shields.

Other protective equipment: For operations where contact can occur, coveralls, apron and rubber foot covering are recommended. A safety shower and eye wash facility should be available.

Work/hygienic practices: Wash hands with soap and water after use and/or before breaks, lunch and at the end of work periods. Remove contaminated clothing and launder before reuse. Discard contaminated shoes.

Section 9 - Preparation Date of MSDS

The foregoing technical information and recommendations are compiled from sources that are believed to be accurate and reliable. However, they are supplied without warranty or guarantee of any kind either expressed or implied. The purchaser is responsible for selecting and determining the suitability of products for purchaser's particular needs and we disclaim any responsibility for improper applications or misuse of our products in any manner whatsoever.

January 31, 2003
Fred Fugitt, Technical Services Chemist
Ed Williams, Manager of Research and Development
LPS Laboratories

ITW

Form #2633
MSDS LPS Floor Patch (Base)



LPS LABORATORIES
MSDS
MATERIAL SAFETY DATA SHEET

Section 1 - Product Identification and Use

Manufacturer's Name:

LPS Laboratories

Trade Name:

LPS Floor Patch (activator)

Address (Number Street):

4647 Hugh Howell Road

Chemical Family:

Aliphatic amines

Address (City, State, Zip):

Tucker, GA 30085-5052

Part Numbers:

60943 (40 lbs.)

Telephone Number: 770-934-7800

Emergency Telephone Number: 1-800-424-9300 Chemtrec

Outside U.S.: (703) 527-3887

Hazardous Materials Description and proper shipping name (49 CFR 172.101): Consumer Commodity ORM-D

TSCA Inventory:

All of the ingredients are listed on the TSCA inventory.

HMIS Labeling:

Health: 3

Flammability: 1

Reactivity: 1

Section 2 - Hazardous Ingredients / Identity Information

Ingredients	CAS Numbers	%WW	OSHA PEL	ACGIH TLV	OTHER LIMITS
Diethylenetriamine	111-40-0	60-70	1 ppm	1 ppm	None
Bisphenol A	80-05-7	30-40	N.E.	N.E.	N.E.
*Skin					

Section 3 - Physical / Chemical Characteristics

Boiling point (F°):	> 400°F	Weight per gallon:	8.6 lb.
Vapor pressure (mmHg) @20°C:	< 0.1	Percent volatile by volume (%):	0
Vapor density (Air = 1):	3.5 (DETA)	Evaporation rate (n-Butyl Acetate = 1):	N.A.
Solubility in water:	1.4% w/w@ 68F		
Appearance and odor:	Clear, amber liquid, amine odor		

Section 4 - Fire and Explosion Hazard

Flash point (method used): > 200°F (PMCC) **Flammable limits:** **Upper:** N.E. **Lower:** N.E.

Extinguishing media: Use water fog, foam, carbon dioxide (CO2) or dry chemical

Special fire fighting procedures: Wear self-contained breathing apparatus and complete personal protective equipment. Remove all ignition sources. Use a water spray to cool fire exposed containers.

Unusual fire and explosive hazards: Closed containers may rupture (due to buildup of pressure) when exposed to extreme heat. Toxic fumes will be evolved if this material burns.

N.E. = Not established
N.A. = Not applicable

Section 5 - Health Hazard Data

Primary route(s) of entry: Eye and skin contact, skin absorption, inhalation

Health hazard/effects of over exposure:

Inhalation: Probable respiratory irritation; high vapor concentrations can cause respiratory irritation, nausea and vomiting

Eyes: Can cause severe irritation or burns, with possible permanent eye damage.

Skin: Corrosive, expected to cause severe skin damage with burns and blistering. Can be absorbed

Ingestion: May cause burns of the mouth and throat. May cause gastrointestinal irritation or ulceration.

Chronic Effects of Overexposure: Prolonged or repeated exposure may cause respiratory and skin sensitization or other allergic response.

Chemicals listed as potential carcinogen: NTP: NO IARC: NO OSHA: NO

Medical conditions aggravated by exposure: Asthma, chronic respiratory disease (e.g. bronchitis, emphysema)

Emergency and first aid procedures:

Inhalation: In case of exposure to a high concentration of vapor or mist, remove person to fresh air. Get medical attention if effects persist. Administer oxygen if necessary.

Eyes: Flush with plenty of water for at least 15 minutes, lifting upper and lower lids. Seek immediate medical attention.

Skin: Remove contaminated clothing and wash contact area with soap and water thoroughly. Wash clothing before reuse and discard contaminated leather articles. Get medical attention if swelling or reddening occurs.

Ingestion: If appreciable quantities are swallowed, seek medical attention. Do not induce vomiting. Dilute by giving water or milk to drink if victim is conscious.

Section 6 - Reactivity Data

Stability: Stable

Conditions to avoid: Excessive heat.

Incompatibility (Materials to avoid): Strong oxidizing agents, mineral acids, halogenated organics, aldehydes, ketones, and acrylates. Uncontrolled curing with epoxy resins in masses greater than 1/2 inch thick.

Hazardous decomposition products: Fumes produced when heated to decomposition may include: carbon monoxide, carbon dioxide, ammonia, and nitrogen oxides.

Hazardous polymerization: Will not occur.

Section 7 - Precautions for Safe Handling and Use

Steps to be taken in case material is released or spilled: Dike spill. Absorb with inert material and collect for disposal. Flush area with water. Prevent washings from entering waterways.

Waste disposal methods: Dispose of as a hazardous waste in accordance with local, state and federal regulations.

CERCLA Reportable Quantity: N.A.

SARA TITLE III Chemicals: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered under applicable definitions, to meet the following categories: An immediate health hazard. This product contains an ingredient subject to SARA Title III Section 313. Bisphenyl A - CAS # 80-05-7.

Section 8 - Control Measures

Respiratory Protection: Wear a properly fitted NIOSH/MSHA approved respirator whenever exposure to vapor/mist is likely.

Ventilation: Local exhaust is recommended when appropriate to control employee exposure. Mechanical is not recommended as the sole means of controlling employee exposure.

Protective gloves: For operations where contact can occur, wear impervious gloves (neoprene, nitrile).

Eye protection: Chemical splash goggles or safety glasses with side shields.

Other protective equipment: For operations where contact can occur, coveralls, apron and rubber foot covering are recommended. A safety shower and eye wash facility should be available.

Work/hygienic practices: Wash hands with soap and water after use and/or before breaks, lunch and at the end of work periods. Remove contaminated clothing and laundry before reuse. Discard contaminated shoes.

Section 9 - Preparation Date of MSDS

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