



LPS LABORATORIES
WORKPLACE HAZARDOUS MATERIAL INFORMATION SYSTEM
MATERIAL SAFETY DATA SHEET

Section 1 - Product Identification and Use

Manufacturer's Name:
LPS Laboratories

Product Identifier:
Floor Patch (base)

Address (Number Street):
4647 Hugh Howell Road

Product Use:
Epoxy Resin

City, Province:
Tucker, GA 30085-5052

Part Numbers:
C60943

Telephone Number: 770-243-8800

Packaging:
18.2 kilograms

Emergency Telephone Number:
1-613-996-6666 CANUTEC

WHMIS Classification:
Class D Div. 2B, Class D Div. 2A

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.

Section 2 - Hazardous Ingredients

Ingredients	CAS Numbers	%WW	LC 50	LD 50	TLV
Bisphenol A/Epichlorohydrin Resin	25068-38-6	60-100	n.av.	30 g/kg (rat)	n.av.
Alkyl glycidyl ether	68609-97-2	10-30	n.av.	>19.2 g/kg (rat)	3.5 mg/m ³
Carbon black	1333-86-4	0.1-1.0	6750 mg/m ³ *	n.av.	n.av.

* 4hr (rat)

Section 3 - Physical Data

Boiling point (C°):	> 260°C	Specific gravity @ 25 C:	1.2
Vapor pressure (mmHg) @ 20° C:	< 1mm	Evaporation rate (ethyl ether = 1):	< 1
Vapor density (Air = 1):	> 1	Freezing Point (C°):	n.av.
Coefficient of Water/Oil Distribution:	n.av.	pH:	n.ap.
Physical State:	Viscous Liquid	Solubility in water (% by weight):	Negligible
Odor/Color:	Grey with no odor	Percent volatile (by volume):	0
Odor Threshold (ppm):			n.av.

Section 4 - Fire and Explosion Hazard

Flammability: Yes No X

Flash point: > 204° C PMCC **Flammable limits:** LEL n.av. UEL n.av.

Autoignition temperature: n.av.

Extinguishing media: Use foam, carbon dioxide, or dry chemical.

Hazardous combustion products: When heated to decomposition it emits fumes of CL-, carbon monoxide, other fumes and vapors varying in composition and toxicity.

Sensitivity to impact: None **Sensitivity to static discharge:** None

Special hazards (including explosion data): Heating above 149°C in the presence of air may cause oxidative decomposition.

n.av. = not available
n.ap. = not applicable

Section 5 - Reactivity Data

Stability: Stable

Conditions to avoid: Excessive heat.

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

Hazardous decomposition products: Oxides of carbon; aldehydes, acids and other organic substances may be formed during combustion or elevated temperature (> 260°C) degradation

Hazardous polymerization: Will not occur. **Reactivity:** None

Section 6 - Toxicological Properties

Primary route(s) of entry: Eyes, skin

Exposure limits: Not established.

Acute 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 skin sensitization

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

Chronic effects of exposure: Prolonged contact with the skin may result in sensitization, with itching or rashes.

Carcinogenicity: IARC- Yes. Cancer suspect constituent(s): Carbon black

Medical conditions generally aggravated by exposure: Pre-existing eye and skin disorders. Development of preexisting skin or lung allergy symptoms may increase.

Other toxicological properties (including reproductive toxicity, synergistic sensitization, teratogenicity, mutagenicity): (Ames Test): Both positive and negative results for CAS# 25068-38-6.

Section 7 - Preventative Measures

Personal Protection:

Hands: Use solvent resistant gloves and other gear as required to prevent skin contact.

Eyes: Use face shield or goggles when spraying or splashing liquid.

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

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

Procedures to be followed in case of leak or spill: Dike spill. Absorb with inert material and collect for disposal. Flush area with water. Prevent washings from entering waterways.

Waste disposal: Not a hazardous waste. Dispose of resin material according to municipal, provincial, and federal regulations.

Handling and storage procedures: Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after using and particularly before eating, drinking, smoking, applying cosmetics, or using toilet articles. Remove contaminated clothing and laundry before reuse.

H.M.I.S. Labeling: **Health:** []2 **Fire:** 1 **Physical Hazard:** 0

N.F.P.A. Labeling: **Health:** 2 **Fire:** 1 **Reactivity:** 1

Section 8 - First Aid Measures

Emergency and first aid measures:

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

Eyes: Flush eyes with plenty of cold water for at least 15 minutes and contact a physician.

Skin: Immediately remove contaminated clothing and excess contaminant. Flush skin with water. Wash thoroughly with soap and water. Get medical attention if swelling or reddening occurs.

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

Section 9 - Preparation Date

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.

December 27, 2005
Ed Williams, Technical Manager
LPS Laboratories

Form # 2763
WHMIS Floor Patch (base)





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Section 1 - Product Identification and Use

Manufacturer's Name:
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Product Identifier:
Floor Patch (activator)

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Epoxy Hardener

Address (City, State, Zip):
Tucker, GA 30085-5052

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C60943

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1-613-996-6666 CANUTEC

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Section 2 - Hazardous Ingredients

Ingredients	CAS Numbers	%WW	LC 50	LD 50	TLV
Aliphatic Amine	28063-82-3	70-80	n.av.	n.av.	n.av.
Diethylenetriamine	111-40-0	20-30	n.av.	** (a-1) (b-1)	4.2 mg/m3*
*Skin					
** (a-1) 1.08 g/kg (oral, rat)	** (b-1) 1.09 g/kg (dermal, rabbit)				

Section 3 - Physical Data

Boiling point (C°):	204°C	Specific gravity:	1.03
Vapor pressure @ 20° C :	<1	Evaporation rate (n-Butyl Acetate = 1):	n.ap.
Vapor density (Air = 1):	n.av.	Freezing Point (C°):	n.av.
Coefficient of Water/Oil Distribution:	n.av.	pH:	n.av.
Physical State:	Liquid	Solubility in water (% by weight):	Complete
Odor/Color: Clear, colorless with amine odor		Percent volatile (by volume):	0
Odor Threshold (ppm):	n.av.		

Section 4 - Fire and Explosion Hazard

Flammability: Yes X No

Flash point: > 93.3°C PMCC

Flammable limits: LEL n.av. UEL n.av.

Autoignition temperature: n.av.

Extinguishing media: Use water fog, foam, dry chemical, or carbon dioxide.

Hazardous combustion products: Carbon dioxide, carbon monoxide, ammonia, and nitrogen oxides.

Sensitivity to impact: None

Sensitivity to static discharge: None

Special 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.ap = not applicable

n.av = not available

Section 5 - 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 2 inches thick.

Hazardous decomposition products: Thermal decomposition may yield carbon monoxide, carbon dioxide, ammonia, and nitrogen oxides.

Hazardous polymerization: Will not occur. **Reactivity:** None

Section 6 - Toxicological Properties

Primary route(s) of entry: Inhalation, skin absorption, ingestion.

Exposure limits: Not established.

Acute effects of over exposure:

Inhalation: Irritation to upper respiratory tract.

Eyes: Extremely irritating with possible permanent eye injury.

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

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

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

Carcinogenicity: None known at this time.

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

Other toxicological properties (including reproductive toxicity, synergistic effects, sensitization, teratogenicity, mutagenicity): None known.

Section 7 - Preventative Measures

Personal Protection:

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

Eyes: Wear safety glasses or chemical splash goggles with side shields.

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

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

Procedures to be followed in case of leak or spill: Dike spill. Absorb with inert material and collect for disposal. Flush area with water. Prevent washings from entering waterways.

Waste disposal: Dispose of in accordance with municipal, provincial, and federal regulations.

Handling and storage procedures: Store below 49°C and above 0°C. Store away from ignition sources and avoid breathing vapors. Wash hands with soap and water after use, or before breaks and lunch and at the end of work periods. Remove contaminated clothing and laundry before reuse.

Special shipping instructions: Consumer Commodity ORM-D

H.M.I.S. Labeling: **Health:** []3 **Fire:** 1 **Physical Hazard:** 0

N.F.P.A. Labeling: **Health:** 3 **Fire:** 1 **Reactivity:** 0

Section 8 - First Aid Measures

Emergency and first aid measures:

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

Eyes: Flush eyes with plenty of cold water for at least 15 minutes, lifting upper and lower lids, and contact a physician immediately.

Skin: Remove contaminated clothing and wash contact area with soap and water. 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 9 - Preparation Date

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