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Material Safety Data Sheet **Technologies**

Revision Date: 05/02/2008

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: LePage Speed Set Epoxy- Hardener
Product Use: Adhesive
Company address:
Henkel Canada Corporation
6685 Kennedy Rd Suite 1
Mississauga, Ontario L5T 3A5

Item No. IDH No. 1165245
Region: Canada
Contact Information:
Telephone: 905.696-2770
Emergency telephone: 613-996-6666

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous components</u>	<u>%</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER</u>
Pentaerythritol-PO-mercaptoglycerol 72244-98-5	60-100	None	None	None
N-(2-Aminoethyl)piperazine 140-31-8	5-10	None	None	None
Aliphatic amines Proprietary	5-10	None	None	None
Phenol, 2,4,6- tris[(dimethylamino)methyl] 90-72-2	5-10	None	None	None
Silica, amorphous, fumed, crystalline-free 112945-52-5	1-5	10mg/m ³ TWA inhalable 3mg/m ³ TWA respirable	6mg/m ³ TWA	None

3. HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW**

Physical state: Liquid
Color: Amber Clear
Odor: Mercaptan Amine

WHMIS hazard class: E, D.2.B

DANGER: CAUSES EYE, SKIN AND RESPIRATORY TRACT BURNS.
MAY CAUSE ALLERGIC SKIN REACTION.
HARMFUL IF SWALLOWED OR ABSORBED THROUGH SKIN.

Relevant routes of exposure: Eye contact, Ingestion, Inhalation, Skin contact

Potential Health Effects**Inhalation:**

Respiratory tract burns. May cause respiratory tract irritation. May cause irritation to nose and throat. Lung damage.

Skin contact:

May cause skin burns. Allergic skin reaction. May be harmful if absorbed through skin. Rash. Redness. Tissue damage.

Eye contact:

Burns. Severe eye irritation. Redness. Tissue damage.

Ingestion:

May be harmful if swallowed. May cause burns of mouth and throat if swallowed.

Existing conditions aggravated by exposure:

Skin disorders. Skin allergies. Respiratory disorders. Eye disorders. Asthma.

See Section 11 for additional toxicological information.

4. FIRST AID MEASURES

Inhalation:	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Skin contact:	Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if symptoms occur.
Eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Ingestion:	DO NOT induce vomiting unless directed to do so by medical personnel. Keep individual calm. Get medical attention immediately.
Notes to physician:	None.

5. FIRE-FIGHTING MEASURES

Flash point:	Greater than 93°C (200°F) Tagliabue closed cup
Autoignition temperature:	Not available
Flammable/Explosive limits-lower %:	Not available
Flammable/Explosive limits-upper %:	Not available
Extinguishing media:	Water spray (fog), foam, dry chemical or carbon dioxide.
Special fire fighting procedures:	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.
Unusual fire or explosion hazards:	In the event of fire, cool tanks with water spray.
Hazardous combustion products:	Oxides of carbon. Oxides of nitrogen. Ammonia. Amines. Nitric acid. Nitrosamines. Irritating organic fragments.
Sensitivity to mechanical impact:	Not available.
Sensitivity to static discharge:	Not available.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions:	Prevent product from entering drains or open waters.
Clean-up methods:	Remove all ignition sources. Immediately contact emergency personnel. Scrape up as much material as possible. Clean residue with soap and water. Store in a closed container until ready for disposal.

7. HANDLING AND STORAGE

Handling:	Keep away from heat, spark and flame. Do not breathe mist or vapors. Keep container closed. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
Storage:	Store at or below 37.8°C (100°F). Store in original container until ready to use. Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.
Incompatible products:	Refer to Section 10.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls:	Use local exhaust ventilation to maintain airborne concentrations below established exposure limits.
Respiratory protection:	Use a NIOSH approved air-purifying respirator if the potential to exceed established exposure limits exists.

Skin protection: Chemical resistant, impermeable gloves. Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact.

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

See Section 2 for exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Color:	Amber Clear
Odor:	Mercaptan, Amine
Odor Threshold:	Not available
Vapor pressure:	Not available
pH:	Not applicable
Boiling point/range:	Not available
Melting point/range:	Not available
Specific gravity:	1.04
Vapor density:	Not available
Evaporation rate:	Not available
Solubility in water:	Slightly soluble
Partition coefficient (n-octanol/water):	Not available
VOC content:	3.7%; 0.377 grams/liter

10. STABILITY AND REACTIVITY

Stability:	Stable
Hazardous polymerization:	Will not occur.
Hazardous decomposition products:	None
Incompatibility:	Strong acids. Strong oxidizers. Halogenated compounds. Strong mineral acids. Reactive metals. Calcium hypochlorite. Sodium hypochlorite. Nitrous acid and other nitrosating agents.
Conditions to avoid:	Excessive heat. Storage with incompatible materials.

11. TOXICOLOGICAL INFORMATION

Product toxicity data: Not available

Toxicologically synergistic products: Not available.

Refer to the following for Irritancy of Product, Sensitization to Product, Carcinogenicity, Reproductive Toxicity, Teratogenicity, and Mutagenicity.

Ingredient Toxicity Data & Carcinogen Status

Hazardous components	LD50s & LC50s	Other LD50s and LC50s	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen	ACGIH - Carcinogens
Pentaerythritol-PO-mercaptoglycerol 72244-98-5	None	None	No	No	No	No
N-(2-Aminoethyl)piperazine 140-31-8	Oral LD50 (Rat) = 2140 µL/kg Dermal LD50 (Rabbit) = 880 µL/kg	None	No	No	No	No
Aliphatic amines Proprietary	None	None	No	No	No	No
Phenol, 2,4,6- tris[(dimethylamino)methyl] 90-72-2	Oral LD50 (Rat) = 1000 mg/kg Dermal LD50 (Rat) = 1280 mg/kg	None	No	No	No	No
Silica, amorphous, fumed, crystalline-free 112945-52-5	Oral LD50 (Rat) = 3160 mg/kg	None	No	No	No	No

Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Pentaerythritol-PO-mercaptoglycerol 72244-98-5	No data
N-(2-Aminoethyl)piperazine 140-31-8	Irritant, Corrosive, Allergen
Aliphatic amines Proprietary	No data
Phenol, 2,4,6- tris[(dimethylamino)methyl] 90-72-2	Allergen, Irritant
Silica, amorphous, fumed, crystalline-free 112945-52-5	Nuisance dust

12. ECOLOGICAL INFORMATION

Ecological information: Not available

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Dispose of in accordance with federal and local regulations.

14. TRANSPORT INFORMATION

The shipping classifications in this section are for non-bulk packaging only (unless otherwise specified). Shipping classification may be different for bulk packaging.

Canada Transportation of Dangerous Goods - Ground:

Proper shipping name: Amines, liquid, corrosive, n.o.s. (Aminoethylpiperazine , Aliphatic amines)
 Hazard class or division: 8
 Identification number: UN 2735
 Packing group: II

International Air Transportation (ICAO/IATA):

Proper shipping name: Amines, liquid, corrosive, n.o.s. (Aminoethylpiperazine , Aliphatic amines)
 Hazard class or division: 8
 Identification number: UN2735

Item No. : IDH No. 1165245

Product name: LePage Speed Set Epoxy- Hardener

Packing group: II

WaterTransportation (IMO/IMDG):

Proper shipping name: Amines, liquid, corrosive, n.o.s. (Aminoethylpiperazine , Aliphatic amines)
Hazard class or division: 8
Identification number: UN2735
Packing group: II

15. REGULATORY INFORMATION

Canada Regulatory Information

CEPA DSL/NDL Status: All components are listed on or are exempt from listing on the Domestic Substances List.

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: First Issue

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 Product Regulations.

Prepared by: Regulatory Affairs

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