



Revision Number: 003.0

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name:	LePage Quad Window and Door Foam	IDH number:	1880791
Product use:	Aerosol	Region:	Canada
Company address:	Contact information:		
Henkel Canada Corporation	Telephone: 800.624.7767		
2515 Meadowpine Boulevard	MEDICAL EMERGENCY Phone: Poison Control Center		
Mississauga, Ontario L5N 6C3	1-877-671-4608 (toll free) or 1-303-592-1711		
	TRANSPORT EMERGENCY Phone: CHEMTREC		
	1-800-424-9300 (toll free) or 1-703-527-3887		

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Physical state:	Aerosol	WHMIS hazard class:	A, B.2, D.2.A, D.2.B
Color:	beige		
Odor:	slightly, of ether		

DANGER: EXTREMELY FLAMMABLE LIQUID AND VAPOR.
 VAPOR MAY CAUSE FLASH FIRE.
 VAPOR HARMFUL.
 MAY CAUSE LUNG DAMAGE.
 MAY CAUSE ALLERGIC SKIN AND RESPIRATORY REACTION.
 CONTENTS UNDER PRESSURE.

Relevant routes of exposure: Inhalation, Ingestion, Skin

Potential Health Effects

Inhalation:	Inhalation of mist or spray may be harmful. As a result of previous repeated overexposures or a single large dose, certain individuals will develop isocyanate sensitization (chemical asthma) which will cause them to react to a later exposure to isocyanate at levels well below the TLV. Chronic overexposure to isocyanates has been reported to cause lung damage. These symptoms, which can include chest tightness, wheezing, cough, shortness of breath or asthma attack, could be immediate or delayed (up to several hours after exposure). Persons suffering from allergic reactions to isocyanates should avoid contact with the product. May cause dizziness, incoordination, headache, nausea, and vomiting.
Skin contact:	Persons suffering from allergic reactions to isocyanates should avoid contact with the product. Prolonged or repeated skin contact may cause skin irritation or allergic skin sensitization reaction. This product may discolor the skin. Cured material is difficult to remove.
Eye contact:	Contact with eyes can cause eye irritation.
Ingestion:	Can cause irritation of mucous membranes. Nausea.

Existing conditions aggravated by exposure: Respiratory disorders. Reports have associated prolonged and repeated occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%
MDI Prepolymer	Proprietary	30 - 60
Polymeric diphenylmethane diisocyanate	9016-87-9	10 - 30
Tris(2-chloro-1-methylethyl) phosphate	13674-84-5	10 - 30
Dimethyl ether	115-10-6	5 - 10
Isobutane	75-28-5	1 - 5
Propane	74-98-6	1 - 5
Polymethylenepolyphenylisocyanate, propoxylated glycerin polymer	57029-46-6	5 - 10

4. FIRST AID MEASURES

Inhalation:	If inhaled, immediately remove the affected person to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If symptoms develop and persist, get medical attention.
Skin contact:	Fresh foam : Wipe off affected skin area immediately with a soft cloth and then remove residues with vegetable oil; apply skin care product. Cured foam can be removed only mechanically. Immediately wash skin thoroughly with soap and water. Remove contaminated clothes.
Eye contact:	Flush eyes with plenty of water for at least 5 minutes. If irritation persists seek medical attention.
Ingestion:	Do not induce vomiting, seek medical advice immediately.

5. FIRE FIGHTING MEASURES

Flash point:	-17.8 °C (0.04 °F) Tagliabue closed cup
Autoignition temperature:	Not available.
Flammable/Explosive limits - lower:	0.4 % The product is not explosive. The formation of explosive vapor/air mixtures is possible.
Flammable/Explosive limits - upper:	32 % The product is not explosive. The formation of explosive vapor/air mixtures is possible.
Extinguishing media:	powder foam Carbon dioxide. Do not use water.
Special firefighting procedures:	Wear a self-contained breathing apparatus with a full face piece operated in pressure-demand or other positive pressure mode. Wear protective equipment.
Unusual fire or explosion hazards:	Cool aerosol containers with jet of water. Containers may explode. Contents under pressure.
Hazardous combustion products:	Isocyanate vapors In the event of a fire, carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx) can be released.
Sensitivity to Mechanical Impact:	Not available.
Sensitivity to static discharge:	Not available.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions:	Remove all sources of ignition. Ventilate area. Wear appropriate personal protective equipment.
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Clean-up methods:

Allow to solidify. Scrape up spilled material and place in a closed container for disposal.

7. HANDLING AND STORAGE

Handling:

Keep away from heat, spark and flame. Do not puncture or incinerate pressurized containers. Ensure adequate ventilation, especially in confined areas. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Keep out of the reach of children. When using do not eat, drink or smoke. Wear suitable protective clothing, gloves and eye/face protection. Refer to Section 8.

Storage:

Store between 50°F and 80°F. (10° and 27°C) Store away from heat, sparks, flames, or other sources of ignition. Do not store above 49 °C (120 °F). Do not cut or weld container.

Shelf Life Statement: Not available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
MDI Prepolymer	None	None	None	None
Polymeric diphenylmethane diisocyanate	0.005 ppm TWA	0.02 ppm (0.2 mg/m3) Ceiling	None	None
Tris(2-chloro-1-methylethyl) phosphate	None	None	None	None
Dimethyl ether	None	None	1,000 ppm (1,880 mg/m3) TWA	None
Isobutane	1,000 ppm STEL	None	None	None
Propane	Included in the regulation but with no data values. See regulation for further details	1,000 ppm (1,800 mg/m3) PEL	None	None
Polymethylenepolyphenylisocyanate, propoxylated glycerin polymer	None	None	None	None

Engineering controls:

Persons with asthmatic-type conditions, chronic bronchitis, other chronic respiratory diseases or recurrent skin eczema or sensitization should be excluded from working with isocyanates. Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

Respiratory protection:

In case of insufficient ventilation wear suitable respiratory equipment.

Eye/face protection:

Wear safety glasses with side shields.

Skin protection:

Rubber gloves recommended. Suitable protective clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:

Aerosol

Color:

beige

Odor:

slightly, of ether

Odor threshold:

Not available.

pH:

Not available.

Vapor pressure:

> 100 mm hg (20 °C (68°F))

Boiling point/range:

< -17.7 °C (< 0.1 °F) Compressed Gas.

Melting point/ range:

Not available.

Specific gravity:

1.107

Vapor density:

< 1 (Air = 1)

Flash point:

-17.8 °C (0.04 °F) Tagliabue closed cup

Flammable/Explosive limits - lower: 0.4 % The product is not explosive. The formation of explosive vapor/air mixtures is possible.

Flammable/Explosive limits - upper: 32 % The product is not explosive. The formation of explosive vapor/air mixtures is possible.

Autoignition temperature: Not available.

Evaporation rate: 10 (Butyl acetate = 1)

Solubility in water: Insoluble

Partition coefficient (n-octanol/water): Not available.

VOC content: 16 %; 177 g/l (calculated)

10. STABILITY AND REACTIVITY

Stability: Not available.

Hazardous reactions: May occur.

Hazardous decomposition products: carbon dioxide carbon monoxide nitrogen oxides

Incompatible materials: Alcohols. Metal compounds. Strong bases. Water.

Conditions to avoid: Keep away from sources of ignition and naked flames.

11. TOXICOLOGICAL INFORMATION

Acute inhalation product toxicity: In the event of protracted or repeated exposure, damage to health cannot be excluded., Cross-reactions with other isocyanate compounds are possible.

Toxicologically synergistic products: Not available.

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

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)	ACGIH Carcinogen
MDI Prepolymer	No	No	No	No
Polymeric diphenylmethane diisocyanate	No	No	No	No
Tris(2-chloro-1-methylethyl) phosphate	No	No	No	No
Dimethyl ether	No	No	No	No
Isobutane	No	No	No	No
Propane	No	No	No	No
Polymethylenepolyphenylisocyanate, propoxylated glycerin polymer	No	No	No	No

Hazardous components	LD50s and LC50s	Health Effects/Target Organs
MDI Prepolymer	None	No Data
Polymeric diphenylmethane diisocyanate	None	Allergen, Irritant, Kidney, Liver, Respiratory
Tris(2-chloro-1-methylethyl) phosphate	None	Irritant, Reproductive, Some evidence of carcinogenicity
Dimethyl ether	Inhalation LC50 (RAT, 4 h) = 308.5 mg/l Inhalation LC50 (RAT, 4 h) = 164000 ppm	Irritant, Central nervous system
Isobutane	Inhalation LC50 (RAT, 15 min) = 570000 ppm	Cardiac, Central nervous system, Lung
Propane	Inhalation LC50 (RAT, 15 min) = > 1,442.847 mg/l Inhalation LC50 (RAT, 15 min) = > 1,464 mg/l	Cardiac, Central nervous system, Irritant
Polymethylenepolyphenylisocyanate, propoxylated glycerin polymer	None	No Data

12. ECOLOGICAL INFORMATION

Ecological information: Not available.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Dispose of according to Federal, State and local governmental regulations.

14. TRANSPORT INFORMATION

The shipping classifications in this sections 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: AEROSOLS
Hazard class or division: 2.1
Identification number: UN 1950
Packing group: None

International Air Transportation (ICAO/IATA)

Proper shipping name: Aerosols, flammable
Hazard class or division: 2.1
Identification number: UN 1950
Packing group: None

Water Transportation (IMO/IMDG)

Proper shipping name: AEROSOLS
Hazard class or division: 2.1
Identification number: UN 1950
Packing group: None

15. REGULATORY INFORMATION

Canada Regulatory Information

CEPA DSL/NDL Status: All components are listed on or are exempt from listing on the Canadian 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: 2, 15

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation (CPR), and the MSDS contains all the information required by the CPR.

Prepared by: Mary Ellen Roddy, Sr. Regulatory Affairs Specialist

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