



Revision Number: 003.0

Issue date: 12/09/2015

## 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Product name:</b>	<b>LePage Quad Foam (formerly LEPAGE TEQ FOAM)</b>	<b>IDH number:</b>	1482482
<b>Product use:</b>	Aerosol	<b>Region:</b>	Canada
<b>Company address:</b>	<b>Contact information:</b> Telephone: 800.624.7767 MEDICAL EMERGENCY Phone: Poison Control Center 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		
Henkel Canada Corporation 2515 Meadowpine Boulevard Mississauga, Ontario L5N 6C3			

## 2. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

<b>Physical state:</b>	Aerosol	<b>WHMIS hazard class:</b>	A, B.2, D.2.A, D.2.B
<b>Color:</b>	beige		
<b>Odor:</b>	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

<b>Inhalation:</b>	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.
<b>Skin contact:</b>	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.
<b>Eye contact:</b>	Contact with eyes can cause eye irritation.
<b>Ingestion:</b>	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

<b>Inhalation:</b>	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.
<b>Skin contact:</b>	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.
<b>Eye contact:</b>	Flush eyes with plenty of water for at least 5 minutes. If irritation persists seek medical attention.
<b>Ingestion:</b>	Do not induce vomiting, seek medical advice immediately.

### 5. FIRE FIGHTING MEASURES

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

<b>Environmental precautions:</b>	Remove all sources of ignition. Ventilate area. Wear appropriate personal protective equipment.
-----------------------------------	-------------------------------------------------------------------------------------------------

**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

<b>Flammable/Explosive limits - lower:</b>	0.4 % The product is not explosive. The formation of explosive vapor/air mixtures is possible.
<b>Flammable/Explosive limits - upper:</b>	32 % The product is not explosive. The formation of explosive vapor/air mixtures is possible.
<b>Autoignition temperature:</b>	Not available.
<b>Evaporation rate:</b>	10 (Butyl acetate = 1)
<b>Solubility in water:</b>	Insoluble
<b>Partition coefficient (n-octanol/water):</b>	Not available.
<b>VOC content:</b>	16 %; 177 g/l (calculated)

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Not available.
<b>Hazardous reactions:</b>	May occur.
<b>Hazardous decomposition products:</b>	carbon dioxide carbon monoxide nitrogen oxides
<b>Incompatible materials:</b>	Alcohols. Metal compounds. Strong bases. Water.
<b>Conditions to avoid:</b>	Keep away from sources of ignition and naked flames.

## 11. TOXICOLOGICAL INFORMATION

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

<b>Ecological information:</b>	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

**DISCLAIMER:** The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation and its affiliates ("Henkel") does not assume responsibility for any results obtained by persons over whose methods Henkel has no control. It is the user's responsibility to determine the suitability of Henkel's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any Henkel's products. In light of the foregoing, Henkel specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel's products. Henkel further disclaims any liability for consequential or incidental damages of any kind, including lost profits.