

Revision Number: 006.0 Issue date: 12/09/2015

## 1. PRODUCT AND COMPANY IDENTIFICATION

**OSI Quad Foam Window & Door Foam** Product name:

Product type: Foam, 1-component with propellant gas

Restriction of Use: None identified

Company address: Henkel Corporation

One Henkel Way Rocky Hill, Connecticut 06067 IDH number: 1866185

Region: **United States** 

**Contact information:** 

Telephone: +1 (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

## 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW** 

DANGER: CONTENTS UNDER PRESSURE.

EXTREMELY FLAMMABLE AEROSOL.

CAUSES SKIN IRRITATION.

MAY CAUSE AN ALLERGIC SKIN REACTION.

CAUSES SERIOUS EYE IRRITATION.

MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING

DIFFICULTIES IF INHALED.

HAZARD CLASS	HAZARD CATEGORY
FLAMMABLE AEROSOL.	1
SKIN IRRITATION	2
EYE IRRITATION	2A
RESPIRATORY SENSITIZATION	1
SKIN SENSITIZATION	1

#### PICTOGRAM(S)



### **Precautionary Statements**

Prevention:

Keep away from heat, sparks, open flames, hot surfaces - no smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Avoid breathing mist or spray. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear eye and face protection. Wear protective gloves. In case of

inadequate ventilation wear respiratory protection.

Response:

IF ON SKIN: Wash with plenty of water, IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. If experiencing respiratory symptoms: Call a poison center or physician. Take

off contaminated clothing.

Storage:

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Disposal:

Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*	
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	

<sup>\*</sup> Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.

### 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.

**Symptoms:** See Section 11.

## 5. FIRE FIGHTING MEASURES

**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.

# 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.

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.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

### 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 Component(s)	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.

> 100 mm hg (20 °C (68°F)) Vapor pressure:

Boiling point/range: < -17.7 °C (< 0.1 °F) Compressed Gas.

Melting point/ range: Specific gravity: Not available. 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)

Not available. Viscosity: **Decomposition temperature:** Not available.

## 10. STABILITY AND REACTIVITY

Stability: Not available.

Hazardous reactions: May occur.

Hazardous decomposition

Incompatible materials:

carbon dioxide carbon monoxide nitrogen oxides

products:

IDH number: 1866185

Alcohols. Metal compounds. Strong bases. Water.

Reactivity: Not available.

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

### 11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Inhalation, Ingestion, Skin

#### Potential Health Effects/Symptoms

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.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects	
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	

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

# 12. ECOLOGICAL INFORMATION

Ecological information: Not available.

IDH number: 1866185

## 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

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

Hazardous waste number: It is the responsibility of the user to determine if an item is hazardous as

defined in the Resource Conservation and Recovery Act (RCRA) at the time of disposal. Product uses, transformations, mixtures, processes, etc., may render the resulting material hazardous, under the criteria of ignitability, corrosivity, reactivity and toxicity characteristics of the Toxicity Characteristics

Leaching Procedure (TCLP) 40 CFR 261.20-24.

### 14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: Aerosols Hazard class or division: 21 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

**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.

TSCA 12 (b) Export Notification: None above reporting de minimis

CERCLA/SARA Section 302 EHS: None above reporting de minimis.

CERCLA/SARA Section 311/312: Immediate Health, Delayed Health, Fire, Sudden Release CERCLA/SARA Section 313:

This product contains the following toxic chemicals subject to the reporting requirements of

section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40

CFR 372). Polymeric diphenylmethane diisocyanate (CAS# 9016-87-9).

California Proposition 65: No California Proposition 65 listed chemicals are known to be present.

**Canada Regulatory Information** 

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic

Substances List.

### 16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: 2, 15

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**Issue date:** 12/09/2015

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