



Revision Number: 002.3

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name:	OSI Quad Foam Window & Door Foam	IDH number:	1866185
Product type:	Foam, 1-component with propellant gas	Region:	United States
Company address:	Contact information:		
Henkel Corporation	Telephone: 800.624.7767		
One Henkel Way	MEDICAL EMERGENCY Phone: Poison Control Center		
Rocky Hill, Connecticut 06067	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		
	Internet: www.henkelna.com		

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Physical state:	aerosol, Sprayable	HEALTH:	2
Color:	beige	FLAMMABILITY:	4
Odor:	slightly, of ether	PHYSICAL HAZARD:	1
		Personal Protection:	See MSDS Section 8

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.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%
Diphenylmethane-diisocyanate, isomers and homologues	9016-87-9	> 40 - < 50
Tris(2-chloro-1-methylethyl) phosphate	13674-84-5	> 10 - < 20
Dimethyl ether	115-10-6	> 5 - < 10
Isobutane	75-28-5	> 1 - < 5
Propane	74-98-6	< 5

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:	18 % 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.

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 components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Diphenylmethane-diisocyanate, isomers and homologues	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 TWA	None	None	None
Propane	1,000 ppm TWA	1,000 ppm (1,800 mg/m3) TWA	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, Sprayable
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: 18 % 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: Reacts slowly with water to liberate carbon dioxide gas.
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.

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Diphenylmethane-diisocyanate, isomers and homologues	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

Hazardous components	Health Effects/Target Organs
Diphenylmethane-diisocyanate, isomers and homologues	Allergen, Irritant, Kidney, Liver, Respiratory
Tris(2-chloro-1-methylethyl) phosphate	Irritant, Reproductive, Some evidence of carcinogenicity
Dimethyl ether	Irritant, Central nervous system
Isobutane	Cardiac, Central nervous system, Lung
Propane	Cardiac, Central nervous system, Irritant

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

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

Proper shipping name:	Aerosols
Hazard class or division:	2.1
Identification number:	UN 1950
Packing group:	None
Exceptions:	Consumer Commodity, ORM-D, (Not more than 1 L)

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
Exceptions: Limited quantity (Not more than 1 L).

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 minimus

CERCLA/SARA Section 302 EHS: None above reporting de minimus
None above reporting de minimus

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

CERCLA/SARA 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). Diphenylmethane-diisocyanate, isomers and homologues (CAS# 9016-87-9). 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). Diphenylmethane-diisocyanate, isomers and homologues (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: One or more components are not listed on, and are not exempt from listing on either the Domestic Substances List or the Non-Domestic Substances List.

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: New Material Safety Data Sheet format.

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