

MATERIAL SAFETY DATA SHEET

MSDS Name: OSI Green Series PRO FOAM II (tm) Insulating Foam
MSDS Number: 1183480
Version Number 1
Revision Date: APR-20-2009
Page Number: 1

SECTION I - PRODUCT AND COMPANY INFORMATION

Product Name: OSI Green Series PRO FOAM II (tm) Insulating Foam
HMIS Hazard Rating: Health: 2 Fire: 2 Reactivity: 1 PPE: B

Company Identification: HENKEL CORPORATION
7405 PRODUCTION DRIVE
MENTOR OH 44060

Contact (24 hour): Consumer Help (800)624-7767
CHEMTREC Emergency (24 hour):(703) 527-3887 (International)
(800) 424-9300
in Canada CANUTEC 613-996-6666

Product Class AEROSOL
Trade Name GREEN SERIES
Product Code See above

Other Names: MINIMALY EXPANDING FOAM SEALANT

SECTION II - INGREDIENT AND HAZARD INFORMATION

Table with 4 columns: Hazardous Ingredient Name, CAS Number, Percent, TSCA. Rows include: Liquified Petroleum Gas blend (hydrocarbon), 4,4' Diphenylmethane Diisocyanate, POLYMERIC MDI Isocyanate.

Ingredient Notes: Remaining ingredients are not considered OSHA hazardous.

SECTION III - PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid in pressurized containers
Solubility (in water): Insol. reacts slowly
pH Value, +/- .3: Not Available
Boiling Range: Propellant
-28.°F - -11.°F (-33.33°C - -23.89°C)
Vapor Pressure (mmHg): over 100.@ 68.°F (20.°C)
Evaporation Rate: Unavailable

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Vapor Density: Lighter than air
% Volatile, Weight Not Available
% Volatile, Volume Not Available
Specific Gravity: 1.081
VOC (less H2O or exempt) < 25%, 250G/L

NOTE:

Physical Hazards: Danger! Extremely flammable. Pressurized container, storage temperature not to exceed 120F (49C) to avoid excess pressure build-up. Also, the foam has strong adhesive like characteristics and will adhere aggressively to skin and other surfaces.

SECTION IV - FIRE FIGHTING MEASURES

Flammability Class L2
Flash Point: Estimated -156.°F (-104.44°C)
Liquefied Petroleum Gas
Explosive Range (LEL/UEL): Not Available

EXTINGUISHING MEDIA:

Carbon Dioxide---Dry Chemical--Halon
Use water only to cool material in vicinity of fire.

SPECIAL FIRE-FIGHTING PROCEDURES:

Use self-contained breathing apparatus with full facepiece

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Water may be unsuitable except as a cooling medium. Use fog.
Any pressurized container may rupture when exposed to extreme heat.

SECTION V - HEALTH HAZARD DATA

Table with 3 columns: Route, Species, Exposure and Dose. Rows include 4,4' Diphenylmethane Diisocyanate (LC50 178. mg/M3) and POLYMERIC MDI Isocyanate (LD50 5000. PPM).

ROUTES OF ENTRY:

ENTRY THROUGH...
Inhalation? Yes | Skin? Yes | Ingestion? Yes

TARGET ORGANS...

Normal Exposure: -- Eyes, Skin

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Health Effects:-- Effects are related to the polymeric MDI component and to the propellant gas(to a lesser degree).

**CARCINOGENICITY...**

NTP? N/E | IARC Monographs? N/E | OSHA? NO

**EFFECTS OF OVEREXPOSURE**

Eyes: Can cause irritation. Foam contact can cause physical damage due to its adhesive character.

Skin: Prolonged or repeated contact can cause localized irritation, reddening, dermatitis, and allergic sensitivity.

Inhalation: Excessive inhalation of vapors can cause respiratory irritation, coughing, or allergic asthma-like sensitivity. High concentrations of vapors are anesthetic and may have symptoms like bronchitis. These are usually reversible. Overexposure to propellant gas may cause light-headedness, headaches, or lethargy. Persons with cardiac arrhythmia may be at increased risk in severe exposure.

Ingestion: Can cause irritation of mucous membranes in mouth and digestive tract and nausea.

**FIRST AID MEASURES**

Eyes: Flush with large amounts of water for at least 15 minutes lifting eyelids occasionally; get prompt medical attention

Skin: Wipe off excess foam from skin with a rag. Wash thoroughly with soap and water; apply a mild skin cream. Remove contaminated clothing.

Inhalation: Remove affected person to fresh air; if breathing is difficult, administer oxygen; if breathing has stopped, give artificial respiration. Get medical attention.

Ingestion: DO NOT induce vomiting! Get immediate medical attention.

**CHRONIC HAZARDS**

Overexposure may cause lung damage. May cause allergic respiratory and skin reaction. Gives off harmful vapor of solvents and isocyanates. Do not use if you have chronic lung or breathing problems, or if you have ever had a reaction to isocyanates.

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**SECTION VI - STABILITY AND REACTIVITY**

Stability: Product is stable under normal storage conditions  
Hazardous Polymerization: Hazardous polymerization may occur

**INCOMPATIBILITY:**

Keep away from alcohols, water, strong bases and metal compounds

**CONDITIONS TO AVOID:**

Keep away from heat, spark, and open flame.

**HAZARDOUS DECOMPOSITION PRODUCTS:**

Will produce fumes and smoke containing carbon monoxide and dioxide, nitrogen oxide and traces of HCN under fire conditions.

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SECTION VII - ACCIDENTAL RELEASE AND DISPOSAL MEASURES:

STEPS TO BE TAKEN IN CASE OF SPILL:

Ventilate confined areas. (Open windows and doors).
Scrape up foam into safety container. Uncured foam is very sticky, sprinkling with water may aid removal.

WASTE DISPOSAL METHOD:

Dispose of cured foam as plastic waste in accordance with regulations. Before disposing of container, relieve of remaining foam and pressure. Allow foam to cure.

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

Table with 5 columns: ACGIH TLV, ACGIH TLV-C, ACGIH STEL, OSHA STEL, OSHA PEL. Rows include: Liquified Petroleum Gas blend (hydrocarbon), 4,4' Diphenylmethane Diisocyanate, POLYMERIC MDI Isocyanate.

RESPIRATORY PROTECTION:

If TLV of the product is exceeded, a NIOSH/MSHA jointly approved respirator is advised in the absence of proper ventilation.

VENTILATION:

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV. Ventilate during application and curing of this product when used indoors.

PROTECTIVE CLOTHING:

Rubber gloves should be worn.

EYE PROTECTION:

Safety eyeware should be worn.

HANDLING AND STORAGE PRECAUTIONS:

Keep away from heat, spark, and flame.
Keep out of reach of children.
Store below 80 degF for best shelf life.
Do not cut or burn this container when empty.
Avoid storage above 120F (49C).
Protect containers from physical abuse.

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**SECTION IX - TRANSPORT INFORMATION: (not all sizes available)**

**GROUND TRANSPORT (DOT) - DOMESTIC**

Units less than 1000 cu.cm. ( 1 liter ) cans

Proper Shipping Name: CONSUMER COMMODITY  
Classification: ORM-D  
DOT Label Required: ORM-D  
Shipping Document: CONSUMER COMMODITY, Polyurethane Foam Sealant  
HC  
ERG Code: 171

**AIR TRANSPORT (DOT) - DOMESTIC**

Units less than 1000 cu.cm. ( 1 liter ) cans

Proper Shipping Name: CONSUMER COMMODITY  
Classification: ORM-D  
DOT Label Required: ORM-D-AIR  
Shipping Document: CONSUMER COMMODITY, Polyurethane Foam Sealant  
HC  
ERG Code: 126

**AIR TRANSPORT ( IATA ) - INTERNATIONAL**

Proper Shipping Name: AEROSOLS, FLAMMABLE  
Classification: 2.1  
DOT Label Required: FLAMMABLE GAS UN1950  
Shipping Document: UN1950, Aerosols, Flammable, 2.1  
ERG CODE: 126

**MARINE - OCEAN TRANSPORT ( IMDG )**

Units less than 1000 cu.cm. ( 1 liter ) cans

Proper Shipping Name: Aerosols, UN1950  
Classification: 2.1  
Label Required: UN1950 inside white diamond  
Shipping Document: UN1950, Aerosols, Class 2.1, LTD QTY  
IMDG Volume 2, p93  
EMS CODE: F-D, S-U

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**SECTION X - REGULATORY INFORMATION:**

SARA TITLE III 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 and of 40 CFR 372:

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Ingredient Name	CAS Number	Percent
4,4' Diphenylmethane Diisocyanate	101-68-8	5 - 10

SARA Section 311/312 Hazard Categories met: Fire Hazard,  
Immediate (Acute) and Delayed (Chronic) Health Hazards.

Chemical ingredients are listed on the TSCA inventory.  
California PROP.65 Chemicals: none known

CURED FOAM: Fully cured foam is non-regulated and non-hazardous.  
Its only hazard is as an irritant from dust created by  
cutting and grinding of the cured foam.

**DISCLAIMER:**

The information contained herein is based on data available as of the date of preparation of this MSDS and which we believe to be reliable. However, no warranty is expressed or implied regarding the accuracy of the data. We shall not be responsible for the use of this information, or of any product, method, apparatus mentioned, and user must make his own investigation to determine the suitability of the information or products for his particular purpose, for the protection of the environment, and the health & safety of the users of this material.