



GREAT STUFF (TM) PRO Window and Door Gun Foam Sealant 20 OZ HC  
**MATERIAL SAFETY DATA SHEET**

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## 1) PRODUCT AND COMPANY IDENTIFICATION

THE DOW CHEMICAL COMPANY  
Midland Michigan 48674  
USA

**24-Hour Emergency Phone Number: 989-636-4400**

**Customer Service: 800-366-4740**

**PRODUCT NAME :** GREAT STUFF (TM) PRO Window and Door Gun Foam Sealant 20 OZ HC

**MATERIAL TYPE :** One component system

**ISSUE DATE :** 07/19/2007

**REVISION DATE :** 05/09/2007

## 2) COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredient  | CAS Number | %              |
|---|------------|----------------|
| Prepolymer of MDI and Polyether polyol  | mixture    | 40-70, 60-100% |
| Polymethylene polyphenyl Isocyanate containing approx. 40-50% MDI (4,4'methylene bisphenyl isocyanate)<br>CAS# 101-68-8   | 9016-87-9  | 5-10,10-30%    |
| Liquified Petroleum Mixture containing Isobutane (CAS#75-28-5), propane (CAS# 74-98-6) and dimethyl ether (CAS# 115-10-6) | mixture    | 10-30%         |

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## 3) HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

DANGER! Flammable

CAUTION! Contents under pressure.

May cause skin sensitization or allergic reactions.

May cause moderate eye irritation.

Sprayed or heated material harmful if inhaled. May cause allergic skin reaction. May cause allergic respiratory reaction and lung injury. Avoid temperatures above 105F (41C). Toxic flammable gases and heat are released under decomposition conditions. Toxic fumes may be released in fire situations. Reacts slowly with water, releasing carbon dioxide, which can cause pressure buildup and rupture of closed containers. Elevated temperatures accelerate this process.

### EYE

May cause moderate eye irritation. May cause very slight transient (temporary) corneal injury.

### SKIN

Prolonged or repeated exposure may cause slight skin irritation. May cause allergic skin reaction in susceptible individuals. Animal studies have shown that skin contact with isocyanates may play a role in respiratory sensitization. May stain skin. A single prolonged exposure is not likely to result in the material being absorbed in harmful amounts.

### INGESTION

Single dose oral toxicity is considered to be low. No hazards anticipated from swallowing small amounts incidental to normal handling operations.

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**INHALATION**

At room temperature, vapors are minimal due to low vapor pressure. However, certain operations may generate vapor or aerosol concentrations sufficient to cause irritation or other adverse effects. Such operations include those in which the material is heated, sprayed or otherwise mechanically dispersed such as drumming, venting or pumping. Excessive exposure may cause irritation to upper respiratory tract and lungs, and pulmonary edema (fluid in the lungs). May cause respiratory sensitization in susceptible individuals. MDI concentrations below the exposure guidelines may cause allergic respiratory reactions in individuals already sensitized. Symptoms may include coughing, difficult breathing and a feeling of tightness in the chest. Effects may be delayed. Decreased lung function has been associated with overexposure to isocyanates.

**SYSTEMIC EFFECTS**

Tissue injury in the upper respiratory tract and lungs has been observed in laboratory animals after repeated excessive exposures to MDI/polymeric MDI aerosols.

**TERATOLOGY**

In laboratory animals, MDI/polymeric MDI did not cause birth defects; other fetal effects occurred only at high doses which were toxic to the mother.

**CANCER INFORMATION**

Lung tumors have been observed in laboratory animals exposed to aerosol droplets of MDI/Polymeric MDI (6 mg/m<sup>3</sup>) for their lifetime. Tumors occurred concurrently with





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**9) PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE/PHYSICAL STATE**

liquid

**VAPOR PRESSURE**

4210 mm Hg at 21C/70F

**SPECIFIC GRAVITY**

1.1

**10) STABILITY AND REACTIVITY**

**CHEMICAL STABILITY**

Stable under recommended storage conditions.

**CONDITIONS TO AVOID**

Avoid temperatures above 120F, 49C. Avoid temperatures below 32F, 0C. Can react with

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**MOVEMENT & PARTITIONING**

Based on information for MDI and polymeric MDI. In the aquatic or terrestrial environment, movement is expected to be limited by its reactivity with water forming predominantly insoluble polyureas.

**DEGRADATION & PERSISTENCE**

Based on information for MDI and polymeric MDI. In the aquatic and terrestrial environment, material reacts with water forming predominantly insoluble polyureas which appear to be stable. In the atmospheric environment, material is expected to have a short tropospheric half-life, based on calculations and by analogy with related diisocyanates.

**ECOTOXICITY**

Based on information for MDI and polymeric MDI. The measured ecotoxicity is that of the hydrolyzed product, generally under conditions maximizing production of soluble species. Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50 > 100 mg/L in most sensitive species). The LC50 in earthworm *Eisenia foetida* is > 1000 mg/kg.

**13) DISPOSAL CONSIDERATIONS**

**DISPOSAL CONSIDERATIONS**

FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: recycler, reclaimer, incinerator or other thermal destruction device.

As a service to its customers, Dow can provide names of information resource to help identify waste management companies and other facilities which recycle, reprocess or manage chemicals or plastics, and that manage used drums. Telephone Dow's Customer Information Center at 800-258-2436 or 989-832-1556 for further details.

**DISPOSAL**

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. THE DOW CHEMICAL COMPANY HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION 2 (Composition/Information On Ingredients).

**14) TRANSPORT INFORMATION**

**US D.O.T.**

Consumer Commodity ORM-D

**15) REGULATORY INFORMATION**

**NOTICE**

The information herein is presented in good faith and believed to be accurate as of the

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SARA 313 INFORMATION: This product contains the following subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

CHEMICAL NAME CAS NUMBER

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Polymeric Diphenylmethane diisocyanate, CAS#9016-87-9  
4,4'' Methylene bisphenol isocyanate, CAS# 101-68-8

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

PMDI/MDI: immediate and delayed health hazard

Isobutane/propane: fire hazard

TOXIC SUBSTANCES CONTROL ACT (TSCA):

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CANADIAN REGULATIONS

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WHMIS INFORMATION: The Canadian Workplace Hazardous Materials Information System (WHMIS) Classification for this product is:

- D2A - respiratory tract sensitizer
- D2B - eye or skin irritant, skin sensitizer
- B3 - combustible liquid

Refer elsewhere in the MSDS for specific warnings and safe handling information. Refer to the employer's workplace education program.

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

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HAZARDOUS PRODUCTS ACT INFORMATION: This product contains the following ingredients which are Controlled Products and/or on the Ingredient Disclosure List (Canadian HPA section 13 and 14):

COMPONENTS: CAS #

4,4'' Methylene bisphenol isocyanate CAS# 101-68-8 2-15 wt %

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA):

All substances in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

**16) OTHER INFORMATION**

**OTHER INFORMATION**

VOC content: 158.1 grams/liter

No other information.

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