

Section 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** GuardFoam Closed Cell Part B  
**Chemical Name:** Polyurethane Foam Component  
**Manufacturer:** Guardian Building Products Distribution, Inc.  
 5421 Hwy. 25 North  
 Hodges, SC 29653  
 Phone: (864) 281-3753 Fax: (864) 374-5402

**Supplied by:** Guardian Building Products Distribution, Inc.  
**Emergency Telephone #:** Chemtrec Emergency Number: 800-424-9300  
**Intended use of Product:** Component B of a 2-Component  
 Polyurethane Foam Insulation System

Section 2: INGREDIENTS OF PRODUCT

Ingredient	%(w/W)	CAS #	Exposure Limit	LD50/LC50
Dimethylethanol amine	7-13%	108-01-0	Not Known	1180mg/kg (rat-oral)/ 1000mg/l 4hr (rat-inhalation)
1,3-Propane diamine N'-(3-(dimethylamino)propyl)- N,N-dimethyl	7-13%	6711-48-4	Not Known	>1.25g/kg (rat-oral) / Not determined
Ethane, 1,1,1,2-Tetrafluro (HFC-134a)	10-25%	811-97-2	Not established	Not available
Non-Hazardous Proprietary Polyol Blend	51-76%	Not Available	Not Applicable	Not Applicable

Section 3: PHYSICAL PROPERTIES OF PRODUCT

**Odor:** Light ammonia  
**Appearance:** Amber colored liquid  
 (white/yellowish when released)  
**Odor threshold:** No data  
**Specific Gravity (H2O = 1):** 1.1 @ 25°C  
**Freezing Point:** 0°C  
**Viscosity:** 1000 cps @ 20°C  
**Boiling Pt:** 212°C

**Vapor Pressure (mm Hg):** Not available  
**Percent Volatile by vol (%):** 20-30% (H<sub>2</sub>O)  
**Vapor Density (Air = 1):** . . Not available  
**Evaporation Rate (BuAc = 1):** Not available

**Solubility in Water (%):** Miscible

#### Section 4: FIRE AND REACTIVITY HAZARD OF PRODUCT

**Flash Point (°C ):** > 141(PMCC)  
**Flammable Limits LEL (%):** Not available  
**Flammable Limits UEL (%):** Not available  
**Extinguishing Media:** Use water spray, foam, dry chemical, or CO<sub>2</sub>.  
Water spray to cool fire-exposed containers.  
**Fire Fighting Procedures:** Wear self-contained breathing apparatus. Cool exposed containers with water.  
**Explosion Data:**  
**Sensitivity to mechanical impact:** Not sensitive  
**Sensitivity to static discharge:** Not sensitive  
**Stability:** Stable at room temperature and normal processing conditions.  
**Hazardous Polymerization:** Polymerization may occur with contact with isocyanates.  
**Incompatibility:** Reacts with strong acids and isocyanates.  
**Hazardous Decomposition products:** oxides of nitrogen and carbon.

Product is a urethane foam component that contains a liquefied compressed gas blowing agent. Containers should not be heated or stored above 120 degrees F to avoid excessive pressure build up.

#### Section 5: HEALTH HAZARD INFORMATION

**Routes of Exposure:** Inhalation, skin contact, eye contact.  
**Acute Effects:** May cause sore throat, eye or skin irritation  
**Chronic Effects:** May cause severe skin and eye irritation and adverse respiratory effects.  
**LD50:** oral-rat 1 360 mg/Kg  
**LD50:** Dermal- rabbit 260 mg/Kg  
**Eyes:** May cause severe irritation to the eyes.  
**Skin:** May cause severe irritation to the skin.  
**Ingestion:** Toxicity is low for ingestion.  
**Inhalation:** Excessive exposure may cause irritation of the upper respiratory tract and lungs.  
**Carcinogenicity:** Not suspected to be carcinogenic.  
**Teratogenicity/Reproductive effects:** Not available  
**Mutagenicity:** Not available

In spraying operations or other 2-component processes that could cause vapor or mist to be released, extra precautions should be taken. Overexposure to MDI in a vapor form through inhalation or skin absorption may cause sensitization to MDI or asthma-like symptoms in certain individuals. The vapor is not detectable visually or by odor.

PPE should be worn to protect individuals in the area - See Section 6 below.

## Section 6: Preventative Measures

**Ventilation:** Use adequate ventilation to keep exposure below exposure guidelines. In spraying operations it is recommended that no one should be in the immediate area being sprayed (within 15 feet of the sprayer) during spraying or for 15 minutes after spraying is completed without proper personal protective equipment.

**Technique:** Follow manufacturer's instructions for spraying or other applications in order to minimize vaporization of the components.

**Personal Protective Equipment:**

**Skin absorption/eye protection:**

Gloves, sleeves, faceshield: If material is used in spraying or other processes in which the components may be released, wear gloves and sleeves impervious to the material and face shield.

Work Boots: Leather work boots or chemical resistant footwear is recommended

Safety glasses: Safety glasses with side shields or safety goggles should be worn to protect eyes from possible release of the material.

**Inhalation:** If material is used in spraying or other processes in which the components may be released in vapor form, a respirator with organic vapor cartridges and HEPA filter should be worn. If exposure levels are above allowable limits or unknown, a powered air purifying respirator (PAPR) with organic vapor cartridges and HEPA filter is recommended to protect eyes and to protect against inhalation of vapor. (Use of a respirator involves compliance with OSHA's Respiratory Protection Standard 1910.134, including a written program, medical evaluations, fit testing, etc.). For large spills or fires a self-contained breathing apparatus is recommended.

Eye wash and safety equipment should be readily available.

#### Section 7: FIRST AID PROCEDURES

**Skin:** Wash off well with soap and water, remove contaminated clothing, seek medical attention if irritation develops.

**Eyes:** Immediately flush thoroughly with water for at least 15 minutes. Get prompt medical attention.

**Inhalation:** No exposure expected. Remove to fresh air.

**Ingestion:** Do not induce vomiting. If conscious, give victim 2 glasses of water. Never give anything to an unconscious person. Get medical attention immediately.

#### Section 8: SPILL, DISPOSAL, HANDLING AND STORAGE PROCEDURES

**Spill Procedure:** Evacuate the area of all unnecessary personnel. Ventilate area. Dike the spill to prevent entry into water system. Wear suitable protective equipment listed under preventative measures including respiratory protection.

Use inert absorbent material to clean up spill.

**Disposal Procedure:** Comply with Federal, provincial, and local regulations on reporting releases.

**Handling & Storage:** Store away from heat and moisture. Store and handle in a well ventilated area. Wear all personal protective equipment when handling.

#### Section 9: PREPARATION INFORMATION

**DATE:** January 2008

**REVISION:** 1

**PREPARED BY:** Guardian Building Products Distribution, Inc.

#### Section 10: REGULATORY INFORMATION

**WHMIS CLASSIFICATION:** Not Classified

**TDG (TRANSPORTATION OF DANGEROUS GOODS) CLASSIFICATION:** Not Regulated

**Class:** Not Regulated

**Domestic Substance List (DSL):** No

**Land Transport (DOT):**

**Proper Shipping Name:** Compressed Gas, N.O.S.

**Hazard Class or Division:** 2.2

**UN Number:** 1956  
**DOT Label:** Non Flammable Gas

Follow DOT HazMat guidelines for compressed gases (Shipping Papers, Marking and Labeling, Loading and Unloading, Employee Training). Transporting over 1000 lbs. also requires placarding and driver must have a CDL with Hazmat endorsement.

**UNITED STATES FEDERAL REGULATIONS:**

**HCS Classification:** Not Regulated

**US. Toxic Substances Control Act:** All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

**SARA 313:**  
No Ingredients Listed

End of MSDS