

# GUARDFOAM 27

## OPEN CELL SPRAY INSULATION

### MATERIAL SAFETY DATA SHEET (MSDS)

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**PRODUCT :** **GUARDFOAM 27 B Side OPEN Cell Polyurethane**  
**NFPA HAZARD RATINGS :** H :2 F :0 R :0 PP :I  
**LAST REVISION :** April 2010

### SECTION I : HAZARDOUS SUBSTANCES

	<u>APPROX. % BY WT.</u>	<u>OSHA PEL</u>
Tertiary amine CAS# 3033-62-3	2%	Not Established
Dimethylaminoethoxyethanol CAS# 1704-62-7	2%	Not Established
N, N, N – trimethylaminoethyl ethanolamine CAS# 2212-32-0	1.5%	Not Established
1, 1, 1, 2 – tetrafluoroethne CAS 8U-97-2	9-12%	Not Established

### SECTION II : PHYSICAL DATA

**BOILING RANGE :** 212 ° F  
**WEIGHT per GALLON :** 9.2 lbs.

**VAPOR DENSITY (air=1) :** NA  
**EVAPORATION RATE (CCl<sub>4</sub>=1) :** <1

**% VOLATILE by VOLUME :** 10-15% (H<sub>2</sub>O)

### SECTION III : FIRE & EXPLOSION HAZARD DATA

**FLASH POINT :** Non-flammable liquid.

**LEL :** N/A  
**UEL :** N/A

**EXTINGUISHING MEDIA :** Foam, CO<sub>2</sub>, dry chemical or water fog.

**SPECIAL FIRE FIGHTING PROCEDURES :** « B » component boils at less than 100° F and containers must be kept cool with water fog to prevent rupture. Fire fighters must wear self-contained breathing apparatus and full protective clothing to prevent contact with toxic and/or irritating fumes.

**UNUSUAL FIRE AND EXPLOSION HAZARD :** Contamination of « A » side with water will generate CO<sub>2</sub> gas with possible build-up of pressure in confined spaces. Carbon monoxide may be evolved if combustion is incomplete. Both Guardfoam 27 components are non-flammable and will not explode due to mechanical impact.

**Warning! When exposed to open flames, cured polyurethane foam will present a serious fire hazard.**

### SECTION IV : HEALTH HAZARD DATA

**EFFECTS OF OVEREXPOSURE :** Product vapor can cause lacrimation, conjunctivitis and corneal edema giving rise to the perception of « blue haze » or « fog ». The effect is temporary and has no known residual effects.

**EMERGENCY & FIRST AID :** Eye contact : flush with water for 15 minutes and contact a physician as soon as possible. Skin contact : wash with soap and water and remove contaminated clothing. Ingestion : see a physician.

**PRIMARY ROUTES of ENTRY** : Dermal or inhalation most likely.

**MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE** : repeated exposure can cause an allergic reaction with the development of occupational asthma. Long term exposure to low vapor concentrations may cause chronically progressive pulmonary disease. Repeated skin contact can result in sensitivization.

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## SECTION V : REACTIVITY DATA

**STABILITY** : Stable

**CONDITIONS TO AVOID** : Temperature extremes and water contamination.

**INCOMPATIBILITY** : Acids

**HAZARDOUS DECOMPOSITION PRODUCTS** : Incomplete burning may produce nitrogen oxides, hydrogen cyanide, carbon monoxide and/or carbon dioxide.

**HAZARDOUS POLYMERIZATION** : Will not occur.

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## SECTION VI : SPILL OR LEAK PROCEDURES

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED** : In enclosed areas, cleanup personnel should wear self-contained breathing apparatus. Cover spills with sawdust or other absorbent material to minimize spreading of the material before collecting.

**WASTE DISPOSAL METHOD** : Dispose in accordance with local, state and federal regulations.

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## SECTION VII : SPECIAL PROTECTION INFORMATION

**RESPIRATORY PROTECTION** : Use self-contained or supplied air breathing apparatus in areas when the material is being heated, spray applied or applied in poorly ventilated areas.

**VENTILATION** : Mechanical equipment capable of keeping the vapor concentration below the TLV.

**PROTECTIVE GLOVES** : Chemical resistant rubber or plastic gloves.

**EYE PROTECTION** : Safety goggles or face shield.

**OTHER PROTECTIVE EQUIPMENT** : Eye wash & safety shower should be available.

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## SECTION VIII : SPECIAL PRECAUTIONS & TOXICOLOGICAL PROPERTIES

**SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING & STORING** : Keep containers closed and store in a cool dry place away from sunlight.

**TOXICOLOGICAL PROPERTIES** : May cause skin or eye irritation. Keep out of reach of children.

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