

GUARDFOAM[®] 27

CLOSED CELL SPRAY INSULATION

MATERIAL SAFETY DATA SHEET (MSDS)

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PRODUCT : **GUARDFOAM 27 B Side CLOSED Cell Polyurethane**
NFPA HAZARD RATINGS : H :1 F :0 R :0 PP :I
LAST REVISION : April 2010

SECTION I : HAZARDOUS SUBSTANCES

	<u>% BY WT.</u>	<u>ACGIH TWA</u>	<u>OSHA PEL</u>	<u>VAPOR PRESSURE</u>
Trans-1,2-Dichloroethylene; CAS# 156-60-5 ⁽¹⁾	1.0 - 4.5%	200ppm	200ppm	400 mm HG @87°F
Pentamethyldiethylenetriamine; CAS# 3030-47-5	1.0 – 2.0%		Not Established	
Bis(dimethylaminopropyl) methylamine; CAS# 3855-32-1	1.0 – 2.0%		Not Established	
1, 1, 1, 2 Tetrafluoroethane	14-20%		Not Established	

(1) This chemical is subject to SARA Title III, Section 313 reporting

SECTION II : PHYSICAL DATA

BOILING RANGE : 118 ° F
WEIGHT per GALLON : 9.65 lbs.
VAPOR DENSITY (air=1) : NA
% VOLATILE by VOLUME : 8.3%
EVAPORATION RATE (ether=1) : .1

SECTION III : FIRE & EXPLOSION HAZARD DATA

FLASH POINT : Non-flammable liquid.

LEL : N/A

UEL : N/A

EXTINGUISHING MEDIA : Foam, CO2, dry chemical or water fog.

SPECIAL FIRE FIGHTING PROCEDURES : "B" component boils at approximately 80°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. Do not spray pool fires directly. A solid stream of water directed into hot burning liquid can cause frothing.

UNUSUAL FIRE AND EXPLOSION HAZARD : Both 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 : Vapors displace enough air to cause suffocation. Skin contact may cause irritation. Eye contact with causes irritation, redness, tearing and blurred vision.

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 sensitization.

SECTION V : REACTIVITY DATA

STABILITY : Stable

CONDITIONS TO AVOID : Temperature extremes and water contamination.

INCOMPATIBILITY : Temperature extremes

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

HAZARDOUS POLYMERIZATION : Will not occur.

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.

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 applicable PEL.

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.

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 : Harmful or fatal if swallowed. Vapor harmful. May cause skin or eye irritation. Keep out of the reach of children.

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