

MATERIAL SAFETY DATA SHEET

This MSDS complies with OSHA's Hazard Communication Standard CFR 1910.1200 and OSHA Form 174.

N/A SIGNIFIES NON-APPLICABLE

IDENTITY AND SUPPLIERS INFORMATION

PRODUCT NAME: Expanding Insulation Foam

CHEMICAL FAMILY:

PRODUCT NUMBER: A399

FORMULA: PROPRIETARY

SUPPLIER'S NAME: GENERAL PRODUCTS & SUPPLY, INC.

PHONE NUMBER: (724) 327-7200

SUPPLIER'S ADDRESS: 101 TECHNOLOGY LANE

EMERGENCY NO.: 800-255-3924

EXPORT, PA 15632

PROPER SHIPPING NAME:

HMSI HAZARDOUS MATERIALS IDENTIFICATION SYSTEM	RATING
HEALTH	2
FLAMMABILITY	1
REACTIVITY	1
MAX PERSONAL PROTECTION	B

SECTION 1 - INGREDIENT IDENTIFICATION AND INFORMATION

CHEMICAL NAME	CARC.	CAS NO.	WT %	313/Chem	PEL	TWA-TLV	Skin
Chlorodifluoromethane	No	75-45-6	10-30	Yes	1000 ppm	1000 ppm	No
4,4' - Diphenylmethane Diisocyanate (MDI)	No	101-68-8	10-30	Yes	0.005 ppm	0.02 ppm	Yes
Higher Oligomers of MDI	No	9016-87-9	10-30	No	N/E	N/E	No
Urethane Pre-Polymer Blend (proprietary non-hazardous blend)	No	N/A	30-60	No	N/E	N/E	N/E

SECTION 2 - PHYSICAL/CHEMICAL PROPERTIES

BOILING POINT: >200°F
VAPOR PRESSURE: (mm Hg) 50 psig
VAPOR DENSITY: n/d
SOLUBILITY IN WATER: Insoluble, reacts slowly with water during curing; liberating traces of CO₂
SPECIFIC GRAVITY: 1.20
pH RANGE: N/A
TOTAL VOC %: N/A
APPEARANCE/ODOR: Yellowish Viscous Liquid, Characteristic odor during curing.

SECTION 3 - FIRE/EXPLOSION HAZARD DATA

FLAMMABILITY: (FLAME PROJECTION) Non-Flammable Spray
AUTO IGNITION TEMP:
FLASH POINT: 800°F
FLAMMABILITY LIMITS: %UEL %LEL
EXTINGUISHER MEDIA: Foam, CO₂, Dry Media, Halon 1211
SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing and protective clothing. Cool fire exposed containers to rupturing.
UNUSUAL FIRE/EXP. HAZARDS: Exposure to temperature above 120°F may cause bursting. Cured foam is organic and, therefore, will burn in the presence of sufficient heat, oxygen and ignition.

SECTION 4 - REACTIVITY HAZARD DATA

STABILITY: Stable.
HAZARDOUS POLYMERIZATION: Will Not Occur.
INCOMPATIBILITY: Avoid alcohols, strong bases or amines and metal compounds (such as small particle metal catalysts).
CONDITIONS TO AVOID: N/A
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Dioxide, Carbon Monoxide, **Oxides of Nitrogen**, and trace amounts of Hydrogen Cyanide, Hydrogen Fluoride and Hydrogen Chloride.

SECTION 5 - HEALTH HAZARD DATA AND FIRST AID

ACUTE EFFECTS:	FIRST AID PROCEDURES:
SKIN: May cause localized irritation, reddening or swelling. Prolonged exposure may lead to sensitization and/or dermatitis.	SKIN: Use a rag to remove excess foam from skin and remove contaminated clothing. Use of a mild solvent, such as acetone (nail polish remover) or mineral spirits, may help in removing uncured residue foam from clothing or other surfaces. Cured foam may be removed by persistent washing with soap and water. If irritation develops, use mild skin cream. If irritation persists, seek medical attention.
EYES: May be irritating to eyes. Foam contact can cause physical damage due to adhesive character.	EYES: Flush with large amounts of cool running water for at least 15 minutes while holding upper and lower lids open. Get medical attention immediately.
INHALATION: Inhalation of mist can cause irritation of nasal and respiratory passages. May irritate mucous membranes with tightness in chest, coughing, or allergic asthma-like sensitivity. Abusive or excessive inhalation of vapors can lead to respiratory symptoms like bronchitis and pulmonary edema. These effects are usually reversible.	INHALATION: Remove to fresh air. Seek medical attention immediately. If breathing stops, give artificial respiration.
INGESTION: Can cause gastrointestinal irritation, nausea, vomiting, and diarrhea. Aspiration of material into the lungs can cause chemical pneumonitis.	INGESTION: Do not induce vomiting. Drink 1 to 2 large glasses of water or milk. Seek medical attention. Never give anything orally to an unconscious person.

SECTION 6 - CONTROL AND PROTECTIVE MEASURES

RESPIRATORY PROTECTION: None needed for proper use in accordance with label directions. Wear a NIOSH/MSHA approved respirator with organic vapor cartridges if recommended exposure level is exceeded.
PROTECTIVE GLOVES: Use chemical resistant gloves and forearm coverings, such as a long sleeved shirt.
EYE PROTECTION: Wear safety glasses or chemical proof goggles.
VENTILATION REQUIREMENTS: Provide local exhaust to keep TLV of Section II ingredients below acceptable limits.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED: Maintain local exhaust and adequate ventilation. No smoking. Keep sparks, heat sources and open flame far away from spill or leak. Uncured foam is very sticky, remove immediately using acetone or mineral spirits with a rag. Once foam has cured, it can be physically removed by scraping, sanding. Dispose of plastic waste (foam plastic) in accordance with Federal, State and local laws.
WASTE DISPOSAL METHODS: Aerosol cans, when emptied and depressurized through normal use, pose no disposal hazard and should be recycled. Consult Federal, State, and local authorities for approved procedures.
PRECAUTIONS IN HANDLING AND STORAGE: **KEEP OUT OF REACH OF CHILDREN.** For industrial and institutional use only. Store in a cool, dry area away from heat or open flame. Do not store at temperatures above 120°F.

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without any warranty or guarantee of any kind.