



POLYURETHANE FOAM - Part B

Part #8145

Safety Data Sheet

Filler, Floatation and Insulation

- Flotation in Boats Under Decks
- Water-Resistant Insulation for Vehicles

CHEMTREC 24-HR EMERGENCY RESPONSE NUMBER

800-424-9300 • OUTSIDE US 703-527-3887

CHEMTREC should only be called in the event of chemical emergencies involving spill, leak, fire, exposure, or accident involving chemicals.



OVER
35
YEARS

Sect. 1 – Product Identification

Product Name: **POLYURETHANE FOAM Part B Isocyanate**
Product Use: **Rigid Urethane Foam System**
Appearance: **Dark brown liquid**
Cas Number: **Mixture**

Synonyms: **Elastopor P1001U Isocyanate**
Revision Date: **October 2013**
Prepared by : **VP RD&I**

Sect. 2 – Hazardous Identification

EMERGENCY OVERVIEW: Harmful if swallowed or inhaled. May cause eye, skin and respiratory tract irritation.

EYES: May cause moderate to serious eye damage. Not expected to cause permanent damage if promptly rinsed from eyes.

SKIN: May cause severe skin irritation. Prolonged and/or repeated skin contact may cause irritation characterized by redness, cracking and blistering. Skin contact may produce burns, corrosive to the skin.

INHALATION: May cause respiratory tract irritation. Exposure to high concentrations may cause central nervous system effects, including headache, drowsiness, nausea, and dizziness.

INGESTION: May cause gastrointestinal disturbances such as nausea, vomiting, diarrhea.

CARCINOGENS: This product contains no materials that are reported as known or suspect carcinogens.

CHRONIC EFFECTS: Repeated inhalation of vapors may cause lung damage. Repeated skin contact may cause a persistent irritation or dermatitis. Overexposure to vapor, dust, or mist may aggravate existing respiratory conditions such as asthma, bronchitis, and inflammatory or fibrotic respiratory disease.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Skin, eyes, respiratory tract.

HMIS Rating: Health: 2 Flammability: 1 Reactivity: 1



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Sect. 3 – Composition/information on ingredients

Hazardous Components	Cas Number	Percentage Range by Weight	Reg Agency	PPM	MG/M3
Diphenyl-4,4-diisocyanate (MDI)	101-68-8	38	OSHA TWA ACGIH TWA	0.02 0.005	0.2
MDI Mixed Isomers	26447-40-5	<10	OSHA TWA OSHA STEL	N/A N/A	N/A N/A
P-MDI	960-87-9	<55	ACGIH TWA OSHA TWA	0.02 0.005	0.2 N/A

Sect. 4 – First Aid Measures

EYE CONTACT: Hold one eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing the eye. Contact a poison control center for treatment advice.

SKIN CONTACT: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call poison control center or doctor for treatment advice. Wash contaminated clothing before reuse.

INHALATION: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth. Call a poison control center or doctor for further treatment advice.

INGESTION: Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN: There is no specific antidote for effects from overexposure to the material. Treatment should be directed at the control of symptoms and the clinical condition.

Sect. 5 – Fire Fighting Measures

FLASH POINT: 428°F/220°C (open cup)

EXTINGUISHING MEDIA: Use dry chemical, carbon dioxide, water spray, or foam.

FIRE FIGHTING PROCEDURES: As in any fire, wear complete fire service protective equipment, including full-face MSHA/NIOSH approved or equivalent self-contained breathing apparatus. Use water to cool fire-exposed container/structure/protect personnel.

FIRE AND EXPLOSION HAZARDS: Toxic vapors may be given off in a fire. Combustion products may include and are not limited to: nitrogen oxides, fumes/smoke, isocyanate vapor.

Sect. 6 – Spill and Leak Procedures

Stop spill/leak if no risk involved. Avoid breathing vapor. Eliminate All sources of ignition such as flares, flames (including pilot lights), and electrical sparks. Ventilate area. Take up carefully to avoid hear and sparks. Use an inert absorbent to complete a clean-up. This material reacts with oxidizing materials. Dispose of contaminated absorbent, container and unused contents in accordance with local, state, and federal regulations.

Sect. 7 – Handling and Storage

HANDLING: Do not get on the skin, in eyes or on clothing. Spray paint in accordance with OSHA 29 CFR

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1910.107. Use with adequate ventilation. Wash thoroughly after handling.

STORAGE: Store in areas/buildings designed to comply with OSHA 1910.106. Keep in a closed, labeled container within a cool (well-shaded), dry, ventilated area. Protect from physical damage. Keep containers closed when material is not in use. Maintain good housekeeping. Do not breathe gas/fumes/dust/spray. Store under nitrogen blanket for maximum shelf life. Product should not come in contact with copper or copper bearing alloys.

OTHER: Do not use until manufacturer's precautions have been read/understood. Containers of this material may be hazardous when empty.

Sect. 8 – Exposure Controls/Personal Protection

ENGINEERING CONTROLS: Ventilation is normally required when handling or using this product. Facilities storing or utilizing this product should be equipped with and eyewash station and shower.

RESPIRATORY PROTECTION: For use of this material in its uncured state, no respiratory protection should be needed with use of adequate local exhaust, however, if handling at elevated temperatures or without sufficient ventilation, use of an approved air-purifying or supplied air respirator is recommended. Use a CE approved air-purifying respirator with cartridge/filter for Amines or Ammonia.

SKIN PROTECTION: Use protective clothing. Items that could be used are face shield, gloves, boots, apron, dependent on operation.

HAND PROTECTION: Use chemical resistant gloves such as: chlorinated polyethylene, polyethylene, ethyl vinyl alcohol laminate. Protection class for gloves should range from class 3 to class 5 or higher.

Sect. 9 – Physical and Chemical Properties

Weight Per Gallon: 10.17 lbs.

Boiling Range: 392°F/200°C

pH: Basic

Solubility in Water: Reacts with water

Auto-Ignition Temperature: >482°F/250°C

Evaporation Rate: N/A

Specific Gravity: 1.22

Sect. 10 – Stability and Reactivity

Stability: Stable

Hazardous Polymerization: Reacts with water, with formation of carbon dioxide. Risk of bursting. Reacts with alcohol, acids, alkalies, amines. Risk of exothermic reaction. Risk of violent reaction and polymerization.

Contact with certain rubbers and plastics can cause brittleness of the substance/product with subsequent loss of strength.

Hazardous Decomposition Product(s): >500°F/260°C

Sect. 11 – Toxicological Information

Symptoms related to the physical, chemical and toxicological characteristics:

Ingestion: Ingestion may cause gastrointestinal irritation or ulceration. Ingestion may cause burns of mouth and throat. Aspiration into the lungs may occur during ingestion or vomiting, causing tissue damage or lung injury.

Skin contact: Prolonged or widespread contact may result in absorption of harmful amounts. May induce pain, severe local redness. Skin contact has caused allergic skin reactions in certain sensitized individuals.

Eyes irritation: may cause pain, irritation, may cause severe irritation with corneal injury which may result in

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permanent impairment of vision, even blindness.

Inhalation irritation: may cause allergic respiratory response. Excessive exposure may cause irritation to upper respiratory tract.

Measure of toxicity: MDI has a LD50 of 880>9400mg/kg for rabbits through dermal contact. The results for this individual component may not be representative of the finished product

Sect. 12 – Ecological Information

The product may hydrolyze. The Test result maybe partially dueto degradation products. The product has not been tested.

Sect. 13 – Disposal Considerations

Dispose of unusable product in accordance with local, state, and federal regulations. This material, when properly mixed and cured with its resin component at the proper mix ratio, may be safely landfilled.

Sect. 14 – Transportation Information

DOT information for domestic ground transportation:

Not classified as a dangerous good under transportation regulations

Sect. 15 – Regulatory Information

Registration status: TSCA listed

OSHA Hazard category: chronic target organ effect reported; ACGIH TLV established

EPCRA311/312: Acute; chronic

EPCRA 313: Diisocyanate compound category

CERCLA RQ: 5,000 lbs

CAS#: 101-68-8 MDI

Reportable Quantity for release: 13,157 lb

State RTK

MA,NJ,PA CAS# 101-68-8 MDI

MA,NJ,PA CAS# 9016-87-9 P-MDI

EPA REGISTRATION: N/A

Globally Harmonized System:



Irritant



Corrosive



Marine Pollutant



Health Hazard

Sect. 16 – Other Information

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