

Material Safety Data Sheet

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Product Identification

Product Name: AV-280 HYDROFOAM

Composition/Ingredient Information

Ingredient Name / CAS Number	Exposure Limits	Concentration
Urethane Prepolymer CAS #59675-67-1	OSHA: Not established ACGIH: Not established	80-85% By weight
4,4'- Diphenylmethane Diisocyanate (MDI) CAS #101-68-8	OSHA PEL: .02 ppm - .20 mg/m ³ ceiling ACGIH: .005 ppm TWA - .951 mg/m ³ TWA	15-20%

Hazards Information

Primary Route(s) of Entry: Eye and skin contact, ingestion, and inhalation.

Health Hazards: Severe eye irritation, severe skin and upper respiratory irritation are possible, as well as headaches, shortness of breath and nausea.

Eye Contact: As liquid or dust, exposure can be irritating to the eyes; with redness, tearing, blurred vision. Prolonged contact may cause corneal damage if left untreated.

Skin Contact: Exposure can cause redness swelling, scaling or blistering of the skin. Prolonged or repeated contact may cause moderate dermatitis.

Ingestion: May have corrosive effects on the lining of the mouth and stomach. May produce abdominal pain, nausea, diarrhea, and vomiting.

Inhalation: Exposure can cause upper respiratory tract irritation and pulmonary edema can occur after overexposure; pulmonary sensitization can occur in some individuals leading to asthma like spasms of the bronchial tubes and difficulty in breathing.

First Aid Measures

Eyes: Flush with plenty of water for at least 15 minutes. Get immediate medical attention.

Skin: Wash thoroughly with soap and water. If irritation develops, consult a physician. All contaminated clothing should be washed prior to reuse.

Inhalation: Remove to fresh air. If breathing is difficult, administer oxygen and get medical attention.

Ingestion: Drink 1-2 glasses of milk or water. If gastrointestinal symptoms develop, get medical attention. (Never give anything by mouth to an unconscious or convulsing person.)

Note to Physician: Treat symptomatically; no specific antidote is available.

Fire and Explosion Hazards

Flash Point: 425°F (218°C) PMCC

Flammable Limits: Not determined.

Extinguishing Media: Dry chemical, foam, or water.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and full protective clothing.

Unusual Fire and Explosion Hazards: Toxic fumes (carbon dioxide, carbon monoxide, nitrogen oxides, traces of hydrogen cyanide, and MDI vapors) are released in fire situations. At temperatures greater than 400°F (204°C), Polymeric MDI can polymerize and decompose which will cause pressure to build-up in closed containers, therefore making explosive rupture possible. Water contamination will produce carbon dioxide. Downwind personnel must be evacuated.

Accidental Release Measures

Spill or Leak Procedures: Eliminate all ignition sources and evacuate spill area. With adequate ventilation, cover the spill with an inert absorbent material such as clay or vermiculite. Pour isocyanate decontaminant solution (90% water, 8% concentrated ammonia, 2% detergent) on spill and allow to react for 10 minutes. Alternately, pour water on the spill and allow reaction to occur for more than 30 minutes. Place in a proper waste container. Do not seal the drum for 48 hours to avoid possible pressure build up (CO₂). Wear respirator and other protective equipment for protection of eyes and skin during cleanup.

Handling and Storage

Storage: Store in a dry area between 60°F-100°F (16°-30°C).

Handling: Use only in well ventilated areas, unless used with recommended respiratory protection. Opened containers must be handled properly to prevent moisture contamination. Empty containers of this material may be hazardous when empty since they retain product residues; observe all warnings and precautions listed for the product.

Exposure Controls and Personal Protection

Respiratory Protection: Wear NIOSH approved respirator for airborne concentrations in excess of the applicable exposure limits in accordance with OSHA regulations.

Ventilation: Mechanical general/local exhaust to control vapor or mist below maximum exposure limits.

Protective Clothing: Wear impervious clothing, including boots, gloves, lab coat, apron or coveralls.

Eye Protection: Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain an eye wash fountain and quick drench facilities in the work area.

Other Protective Equipment: Use impervious rubber gloves and boots.

Work/Hygienic Practices: Wash with soap and water after handling. Remove contaminated clothing and wash before next use.

Physical and Chemical Properties

Appearance and Odor: Amber to brownish viscous liquid with pungent aroma

Boiling Point: >400°F (204°C)

Vapor Pressure (mm Hg @ 25°C): <0.00001 @ 68°F (20°C)

Vapor Density (Air = 1): Not Listed

Specific Gravity (water=1): 1.15 @ 77°F (25°C)

Melting Point: Not Determined

Evaporation Rate (butyl acetate): N/A

Solubility in Water: Insoluble, reacts rapidly with water to liberate carbon dioxide gas

Stability and Reactivity

Stability: Stable in sealed containers.

Incompatibility (materials to avoid): Water (moisture), metal compounds, acids, bases, and surface-active materials.

Decomposition: Toxic fumes are released in fire situations, including isocyanate vapor and mist, carbon dioxide, carbon monoxide, nitrogen oxides, and traces of hydrogen cyanide.

Polymerization: May occur.

Toxicological Information

Carcinogenicity: No NTP – N/A

IARC monographs: None

Teratogenicity: None Determined

Reproductive Toxicity: Not Determined

Mutagenicity: None Determined

Synergistic products: None

OSHA regulated: No

LD₅₀: Polymeric MDI

Acute Oral (rat): 5000 mg/kg

Acute Dermal (rabbit): 5000 mg/kg

Acute inhalation (rat): 490 mg/M³ *

*(4 hours exposure to repairable aerosol)

Ecological Information

None listed.

Disposal Considerations

Dispose of in accordance with local, state, and federal regulations.

Transport Information

Proper Shipping Name: Organic, n.o.s. (4,4'-Diphenylmethane Diisocyanate)

DOT Hazard Classification: None

UN/NA Number: None

Packaging Group: None

Freight Class: 65

DOT Labels Required: None

DOT Placards Required: None

Other Information

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