

AV-278 Low Vis Hydro
MATERIAL SAFETY DATA SHEET



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1. PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: AV-278 Low Vis Hydro
CLASSIFICATION: Hydrophobic Foam

MANUFACTURER

Avanti International
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EMERGENCY TELEPHONE NUMBER

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2. COMPOSITION/INGREDIENT INFORMATION

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

3. HAZARDS IDENTIFICATION

HEALTH HAZARDS: Persons with known respiratory or allergy problems must not be exposed to this product. May cause headaches, nausea, coughing, shortness of breath, chest pains.

EYE CONTACT: As a liquid or dust, exposure may cause irritation or inflammation.

SKIN CONTACT: Prolonged or repeated exposure can cause upper respiratory tract irritation. Severe overexposure may lead to pulmonary edema.

INGESTION: Can result in irritation and corrosive action in the mouth, stomach tissue, and digestive tract.

4. FIRST AID MEASURES

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

SKIN: Wash thoroughly with soap and water. If irritation develops, consult a physician.

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

INGESTION: Drink 1 or 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.

5. FIRE AND EXPLOSION HAZARDS

FLASH POINT: 425°F (218°C)

FLAMMABLE LIMITS: Not determined

EXTINGUISHING MEDIA: Dry chemical, foam or water spray.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contaminated breathing apparatus and full protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Toxic fumes (diisocyanate vapor or mist, carbon dioxide, carbon monoxide, nitrogen oxides, traces of hydrogen cyanide) are released in fire situations. At temperature greater than 400°F (204°C), Polymeric MDI can polymerize and decompose which will cause pressure to build-up in closed containers. Explosive rupture is possible. Water contamination will produce carbon dioxide. Downwind personnel must be evacuated.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES: Wear respirator and other protective equipment for protection of eyes and skin during cleanup. Evacuate spill area.

SMALL SPILLS: With adequate ventilation, cover with an inert absorbent material such as clay or vermiculite, transfer to a proper waste container. Saturate with water but do not seal container. (CO₂ will be generated).

LARGE SPILLS: Larger quantities of liquid may be transferred directly to drums for disposal. Wash the area with water containing 5% ammonia and detergent.

7. HANDLING AND STORAGE

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

HANDLING: Opened containers must be handled properly to prevent moisture contamination.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

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

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear chemical goggles and/or face shield to avoid splashing on face.

SKIN: Wear impervious rubber boots and gloves, and long-sleeve shirt and trousers.

RESPIRATORY: Wear NIOSH/MSHA approved supplied air respirator or self-contained breathing apparatus when airborne concentrations are unknown or exceed permissible limits. Air purifying (cartridge type) respirators are not approved for protection against diisocyanates.

OTHER PROTECTIVE EQUIPMENT: Provide eyewash fountain and quick drench facilities in close proximity to points of potential exposure.

HYGIENE PRACTICES: Wash with soap and water after handling. Remove contaminated clothing and wash before reuse.

9. 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): <0.00001 @ 68°F (20°C)

VAPOR DENSITY: Not listed

SPECIFIC GRAVITY (WATER=1): 1.15 @ 77°F (25°C)

MELTING POINT: Not listed

EVAPORATION RATE (BUTYL ACETATE): N/A

SOLUBILITY IN WATER: Reacts

10. STABILITY AND REACTIVITY

STABILITY: This is a stable material 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.

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL LD50 (rat): 5000 mg/kg

ACUTE DERMAL LD50 (rabbit): 5000 mg/kg

ACUTE INHALATION (rat): 490 mg/M3 (4 hours exposure to repairable aerosol)

12. ECOLOGICAL INFORMATION

None listed.

13. DISPOSAL CONSIDERATIONS

Waste may be incinerated at proper facilities or disposed of in accordance with local, state, and federal regulations.

14. TRANSPORT INFORMATION**DOT (DEPARTMENT OF TRANSPORTATION)**

PROPER SHIPPING NAME: Liquid Resin non-regulated

HAZARD CLASS: None

UN NUMBER: None

PACKING GROUP: None

LABEL: None

PLACARD: None

NMFC (NATIONAL MOTOR FREIGHT CARRIERS)

FREIGHT CLASS: 55

15. REGULATORY INFORMATION

None listed.

16. OTHER INFORMATION

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