

AV-278 Low Vis Hydro  
**MATERIAL SAFETY DATA SHEET**



Date Issued: 05/05/2010

**1. PRODUCT AND COMPANY INFORMATION**

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

**SUPPLIER**

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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/m3 ceiling ACGIH: 005 ppm TWA-.951mg/m3 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. (CO<sub>2</sub> 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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