

AV-202 Multigrout
MATERIAL SAFETY DATA SHEET



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1. PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: AV-202 Multigrout
CLASSIFICATION: Hydrophilic Foam

SUPPLIER

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EMERGENCY TELEPHONE NUMBER

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2. COMPOSITION/INGREDIENT INFORMATION

Ingredient / CAS Number	Exposure Limits	Concentration
4,4'-Diphenylmethane Diisocyanate CAS #101-68-8	OSHA PEL: 0.02 ppm ACGIH TWA: 0.005	Trade Secret
Higher Oligomers of MDI/TDI CAS #9016-87-9	OSHA: Not established ACGIH: Not established	Trade Secret
2,4 Toluene Diisocyanate CAS #584-84-9	OSHA PEL: 0.005 ppm ACGIH TWA: 0.005 ppm	Trade Secret
2,6 Toluene Diisocyanate CAS #91-08-7	OSHA PEL: 0.005 ppm ACGIH TWA: 0.005 ppm	Trade Secret

3. HAZARDS IDENTIFICATION

HEALTH HAZARDS: Severe eye irritation, severe skin and upper respiratory irritation are possible.

EYE CONTACT: Vapors are irritating to the eyes; with redness and blurred vision. Prolonged vapor contact may cause conjunctivitis.

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 a serious vapor exposure; pulmonary sensitization can occur in some individuals leading to asthma like spasms of the bronchial tubes and difficulty in breathing.

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, flushing for at least 15 minutes. Remove all contaminated clothing and wash or clean prior to reuse. If irritation develops, consult a physician.

INHALATION: Remove to fresh air. If breathing is difficult, administer oxygen and get medical attention. Asthma like symptoms may develop.

INGESTION: Do NOT induce vomiting. Drink 1-2 glasses of milk or water. If vomiting is inevitable, prevent aspiration by keeping the person's head below the knees. Get immediate medical attention.

NOTE: Never give anything by mouth to an unconscious or convulsing person.

5. FIRE AND EXPLOSION HAZARDS

FLASH POINT: > (93°C) 200°F PMCC

FLAMABLE LIMITS: Not determined

EXTINGUISHING MEDIA: For small fires, use CO₂ or dry chemical. For large fires, use fog or regular foam.

PROTECTIVE EQUIPMENT: Since fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus with a full-face piece operated in pressure-demand or positive-pressure mode.

SPECIAL FIRE FIGHTING PRECAUTIONS: Apply cooling water to sides of container until well after fire is out. Do not release fire water runoff to sewers or waterways. Vapors are heavier than air and may collect in low-lying areas. Container may explode in heat of fire. Exposure to flames or arc welding can produce highly toxic gases due to the thermal decomposition or combustion of the product.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES: Notify safety personnel. Wear appropriate protective gear. Eliminate all ignition sources and evacuate spill area. Provide adequate ventilation and stay up wind.

SMALL SPILLS: Soak up with sand or other inert absorbent material and collect in a properly labeled waste container for disposal.

LARGE SPILLS: Dike area to contain spill. 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. Pump into suitable and properly labeled container. Do not seal the drum for 48 hours to avoid possible pressure build up (CO₂).

ENVIRONMENTAL: Do not allow material to contaminate surface or groundwater. Dike area to prevent runoff. Prevent product from entering drains.

7. HANDLING AND STORAGE

HANDLING: Use only in well ventilated areas, unless used with recommended respiratory protection. Empty containers of this material may be hazardous when empty since they retain product residues; observe all warnings and precautions listed for the product.

STORAGE: Store in a dry area between 60° - 90° F (16°-38°C). Keep containers tightly closed. Do not let moisture into containers. Store away from incompatible materials. Avoid physical damage to containers.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

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

PERSONAL PROTECTIVE EQUIPMENT

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

SKIN: Wear chemically protective gloves, boots and aprons to prevent repeated or prolonged skin contact. Viton, neoprene and butyl rubber are recommended materials for protected gear.

RESPIRATORY: If exposure exceeds occupational exposure limits, use an appropriate NIOSH approved respirator.

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. Never eat, drink, or smoke in work areas.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Transparent brown liquid, faint musty odor.

BOILING POINT: Not determined

VISCOSITY: 3200 - 6000 cP @ 72°F (22°C)

VAPOR PRESSURE: (mm Hg @ 25°C): Not determined

VAPOR DENSITY: Not determined

SPECIFIC GRAVITY: 1.147 @ 72°F (22°C) ± 3%

MELTING POINT: Not Determined

EVAPORATION RATE: (butyl acetate): Not Determined

SOLUBILITY IN WATER: Soluble, reacts with water to liberate carbon dioxide gas

10. STABILITY AND REACTIVITY

STABILITY: Stable at room temperature in closed containers under normal storage and handling conditions.

MATERIALS TO AVOID: Water, amines, strong bases, alcohols and metal compounds.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition can produce carbon monoxide (CO), oxides of nitrogen, traces of cyanic acid, MDI and TDI vapors. May form peroxides of unknown stability. @ >350°F (177°C)

HAZARDOUS POLYMERIZATION: Can occur. Contact with moisture, other materials, which react with isocyanates, or temperatures above 350°F (177°C), may cause polymerization.

11. TOXICOLOGICAL INFORMATION

CARCINOGENICITY: NTP and IARC consider Toluene Diisocyanate a potential carcinogen.

12. ECOLOGICAL INFORMATION

Not determined.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Organic, n.o.s., (contains: toluene diisocyanate)

HAZARD CLASS: Not applicable

UN NUMBER: Not applicable

PACKING GROUP: Not applicable

LABEL: Not applicable

PLACARD: Not applicable

NMFC (NATIONAL MOTOR FREIGHT CARRIERS)

FREIGHT CLASS: 55

15. REGULATORY INFORMATION**SARA TITLE III**

SECTION 311/312: Immediate Health Hazard, Delayed Health Hazard, Reactive Hazard

REPORTABLE QUANTITY: None

TSCA REGULATORY: All components of this product are either on the TSCA Inventory or exempt.

NFPA (NATIONAL FIRE PROTECTION AGENCY)

HEALTH: 3

FLAMMABILITY: 1

REACTIVITY: 0

SPECIAL: 0

TSCA REGULATORY: All components of this product are either on the TSCA Inventory or exempt.

OSHA: This material is a health hazard and/or physical hazard as determined when reviewed according to the requirements of the OSHA 29 CFR Part 1910.1200 Hazard Communication Standard.

16. OTHER INFORMATION

The information on this MSDS is accurate to the best of Avanti International's knowledge. Avanti International makes no expressed or implied warranty, and in no case shall be liable for consequential, special, or indirect damages resulting from the use or handling of this product.