



**AvantiGrout stops water leaks. Permanently.**

## **AV-248 Flexseal Material Safety Data Sheet**

Avanti International, 822 Bay Star Blvd., Webster, TX 77598

Product Data Information: (281) 486-5600

CHEMTREC Emergency Phone: 1-800-424-9300

Date Issued: February 1, 1997

### **Identification**

**Trade Name:** AV-248 Flexseal

**Ingredient (s):**

**Dibutyl Maleate** Percent: 35-50

CAS Number: 105-76-0

OSHA PEL: N/A ACGIH TLV: N/A

**Poly(oxyalkylene) Polyol** Percent: 30-50

CAS Number: Proprietary Information

OSHA PEL: N/A ACGIH TLV: N/A

**4,4' - Diphenylmethane Diisocyanate** Percent: 1-15

CAS Number: 101-68-8

OSHA PEL: 0..02 ppm ACGIH TLV: 0.02 ppm

**Higher Oligomers of MDI** Percent: 1-15

CAS Number: 9016-87-9

OSHA PEL: N/D ACGIH TLV: N/D

**Diphenylmethane Diisocyanate** Percent: 1-5

CAS Number: 26447-40-5

OSHA PEL: N/D ACGIH TLV: N/D

### **Hazard Ratings**

**4,4 Diphenylmethane Diisocyanate NFPA 704:**

Health: 3 Fire: 1 Reactivity: 1 Special: None

### **Physical/Chemical Characteristics**

**Appearance and Odor:** Pale yellow liquid, slightly sweet odor.

**Boiling Point:** 537.8°F (281°C)

**Vapor Pressure (mm Hg.):** 0.0001 mmHg @ 68°F (20°C)

**Vapor Density (Air=1):** N/D

**Specific Gravity (Water = 1):** 1.114 @ 68/39.8°F (20/4°C)

**Melting Point:** N/D

**Evaporation Rate (Butyl Acetate=1):** N/D

**Solubility in Water:** Not soluble.

### **Fire and Explosion Hazard Data**

**Flash Point:** >270°F (>132°C)

**Flammable Limits:** N/D

**Extinguishing Media:** For small fires, use dry chemical or carbon dioxide. For large fires, use fog or regular foam.

**Special Fire Fighting Procedures:** Wear a self-contained breathing apparatus with a full face piece. Apply cool water to sides of container until fire is out. Do not release fire water runoff into sewers or waterways.

**Unusual Fire and Explosion Hazards:** Vapors are heavier than air and may collect in low lying areas. Exposure to flames and arc welding can produce highly toxic gases due to thermal decomposition or combustion of the product. Exposure to heat from fire may cause containers to explode.

## Reactivity

**Stability:** Stable at room temperature in closed containers.

**Incompatibility (Materials to Avoid):** Water, amines, strong bases, and alcohols.

**Decomposition:** Thermal decomposition can produce carbon monoxide, oxides of nitrogen, traces of cyanic acid, and MDI vapors.

**Polymerization:** Can occur when in contact with moisture, other materials which react with isocyanates, or temperatures above 400°F (204°C).

## Storage, Disposal, and Spill Information

**Storage and Handling:** Store in steel drums in a cool, dry, well ventilated area away from sunlight. Prevent physical damage to containers.

**Disposal Method:** : Dispose of in accordance with Federal, State and Local regulations.

**Steps to Be Taken in Case Material is Released or Spilled:** Stay up wind. Remove all ignition sources. For small spills, absorb with sand or other absorbent material and place in a suitable container for later disposal. For large spills, dike area for a later disposal or reclamation.

**Other Precautions:** N/L

## Precautionary Measures

**Respiratory Protection:** Use a NIOSH approved respirator for airborne concentrations in excess of the applicable exposure limits. In a confined area with inadequate ventilation, use a self-contained breathing apparatus.

**Ventilation:** Local and mechanical exhaust.

**Protective Clothing:** Neoprene or butyl rubber gloves, boots and apron.

**Eye Protection:** Face shield to prevent splashing in eyes and on face.

**Other Protective Equipment:** N/L

**Work/Hygienic Practices:** Wash with soap and water after contact with this material.

## Health Related Data

**Primary Route(s) of Entry:** Eye and skin absorption, and inhalation.

**Health Hazards:** This material is a known skin and pulmonary sensitizer.

**Eye Contact:** Workplace vapors have produced reversible corneal epithelial edema impairing vision.

**Skin Contact:** Can cause skin sensitization.

**Inhalation:** Can cause pulmonary sensitization.

**Ingestion:** N/L

**First Aid Procedures:**

**Eyes:** Hold eyelids apart and flush eyes with water for 15 minutes. Get medical attention.

**Skin:** Remove contaminated clothing. Wash contaminated areas with soap and water. Get medical attention if irritation develops/persists.

**Inhalation:** Remove to fresh air.

**Ingestion:** Treat symptomatically. There is no specific antidote. Do not induce vomiting.

(Never give anything by mouth to an unconscious or convulsing person.)

## Toxicity Data

N/L

The information on this MSDS is accurate to the best of Avanti International's knowledge. Avanti International makes no express 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.

N/A = Not Applicable

N/E = Not Established

N/D = Not Determined

N/L = Not Listed

---

© 2000 Avanti International  
[www.avantigrout.com](http://www.avantigrout.com)