



MATERIAL SAFETY DATA SHEET

AVANTI INTERNATIONAL
822 Bay Star Blvd.
Webster, TX 77598

CHEMTREC Emergency Phone: 1-800-424-9300
Product Data Information: (713)486-5600

Date Issued: July 16, 1994

Health: 3
FIRE: 2
Reactivity: 2

IDENTIFICATION

Trade Name: AV-100 Chemical Grout (Liquid)

Ingredient(s): Water Percent: 60

Acrylamide CAS Number: 7732-18-5 Percent: 40

CAS Number: 79-06-1

OSHA PEL: 0.03 mg/m³

ACGIH TLV: 0.03 mg/m³

HAZARD RATINGS

NFPA: Health: 3
Fire: 2
Reactivity: 2
Special: None

PHYSICAL/CHEMICAL CHARACTERISTICS

Appearance and Odor: Clear, odorless liquid.
Boiling Point: 212°F
Vapor Pressure(mm Hg.): 0.03 @ 104°F (40°C)
Vapor Density(Air=1): 2.45
Specific Gravity(Water = 1): 1.12
Melting Point: N/A
Evaporation Rate(Butyl Acetate=1): N/L
Solubility in Water: N/A

FIRE AND EXPLOSION HAZARD DATA

Flash Point: N/A.
Flammable Limits: N/A
Extinguishing Media: Water spray, carbon dioxide, dry chemical, foam.
Special Fire Fighting Procedures: Avoid skin contamination and inhalation by wearing full protective clothing and positive pressure respirator. Approach fire from upwind to avoid hazardous vapors and toxic decomposition products.
Unusual Fire and Explosion Hazards: Thermal decomposition or combustion may generate toxic gases including carbon monoxide and ammonia. Closed containers may rupture violently when heated.

REACTIVITY

Stability: Stable under normal conditions.
Incompatibility(Materials to Avoid): Avoid acids, alkalis, peroxides, oxidizing and reducing agents, carbon steel or rust.
Decomposition: Thermal decomposition or combustion may generate toxic gases including carbon monoxide and ammonia.
Polymerization: May occur. Store below 104°F (40°C) with no exposure to direct sunlight.

MSDS for AV-100 Chemical Grout (Liquid)
AVANTI INTERNATIONAL

Page 2 of 2

STORAGE, DISPOSAL AND SPILL INFORMATION

Storage and Handling: Store in a cool, dry place and away from heat. Take measures not to raise dust, mist and vapor. Provide good ventilation. Wear protective clothing, gloves, boots, full-face splash shield and respirators, and clean them daily when contaminated.

Disposal Method: Incinerate or treat at a sewerage plant in accordance with governmental regulations.
Steps to Be Taken in Case Material is Released or Spilled: Collect into a closed container and dispose of in accordance with governmental regulations. Wash out the area with plenty of water. Do not create dust.

Other Precautions: Store below 104°F (40°C) with no exposure to direct sunlight. Do not leave open to the atmosphere. Store at a fixed place. Keep emptied drums at a fixed place until proper disposal. Clean up the work area if contaminated. Wash thoroughly in case of skin or eye contact.

PRECAUTIONARY MEASURES

Respiratory Protection: NIOSH approved respirator.

Ventilation: Local exhaust.

Protective Clothing: Rubber gloves, trousers, jacket and boots.

Eye Protection: Full-face splash guard.

Other Protective Equipment: N/L

Work/Hygienic Practices: Shower at the end of each shift and wash contaminated clothes before re-use.

HEALTH RELATED DATA

Primary Route(s) of Entry: Skin absorption, inhalation and ingestion.

Health Hazards: Repeated exposure affects central nervous system

Eye Contact: Eye irritant.

Skin Contact: Skin irritant, causing peeling and redness. Penetrates skin easily.

Inhalation: Repeated inhalation affects nervous system.

Ingestion: Repeated ingestion affects nervous system.

First Aid Procedures:

Eyes: Flush with water for 15 minutes.

Skin: Wash thoroughly with soap and water.

Inhalation: Remove to fresh air.

Ingestion: Induce vomiting with water.

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

TOXICITY DATA

Carcinogenicity: In January 1992, American Cyanamid notified EPA that they had concluded that "acrylamide is not carcinogenic to mice" and "acrylamide is not carcinogenic in humans as shown by two epidemiological studies." This material is listed as a carcinogen by the IARC.

LD₅₀: (Acrylamide Monomer)

Acute Oral(rat): 294 mg/kg

Acute Dermal(rabbit): 252 mg/kg

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.