

AV-100 Chemical Grout (Granules)
MATERIAL SAFETY DATA SHEET



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1. PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: AV-100 Chemical Grout (Granules)

CLASSIFICATION: Chemically Activated Gel

SUPPLIER

Avanti International
822 Bay Star Blvd.
Webster, TX 77598
Phone: 800.877.2570
Fax: 281.486.7300

EMERGENCY TELEPHONE NUMBER

Chemtrec: 800.424.9300

2. COMPOSITION/INGREDIENT INFORMATION

Ingredient / CAS Number	Exposure Limits	Concentration
Acrylamide CAS #79-06-1	OSHA PEL: 0.3 mg/m ³ ACGIH TLV: 0.03 mg/m ³	Trade Secret

3. HAZARDS IDENTIFICATION

HEALTH HAZARDS: Repeated exposure affects central nervous system.

EYE CONTACT: May cause slight eye irritation.

SKIN CONTACT: Exposure may cause irritation and redness. A single, prolonged exposure may result in the material being absorbed in harmful amounts. A sign of excessive skin exposure is the peeling of skin. Excessive exposure may cause neurological signs and symptoms such as injury to nerves of the extremities. May cause allergic skin reaction.

INGESTION: Repeated ingestion affects nervous system.

INHALATION: Repeated inhalation affects nervous system.

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

INGESTION: Induce vomiting with water. Never give anything by mouth to an unconscious or convulsing person. Call a physician.

5. FIRE AND EXPLOSION HAZARDS

FLASH POINT: 138°C (280°F)

AUTOIGNITION: 240°C (464°F)

FLAMMABLE LIMITS: Not determined

EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, alcohol foam or water spray.

PROTECTIVE EQUIPMENT: Wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

SPECIAL FIRE FIGHTING PRECAUTIONS: Approach fire from upwind to avoid hazardous vapors and toxic decomposition products.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Not considered an explosive hazard, but an explosion may occur upon polymerization. Polymerization may be caused by exposure to heat, U.V. light, oxidizers, or peroxides.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES: Avoid all contact with the product by ingestion, inhalation or contact with the skin, eyes, and clothing. Wear appropriate personal protective equipment. Large amounts, keep people away from and upwind of spill/leak.

SMALL SPILLS:

Dry: Collect/contain granules and spray area with water.

Catalyzed/mixed liquid: Soak up with inert absorbent material and collect in a waste container and cure with oxidizer. Spray spill area with potassium persulfate and sodium metabisulfite solutions to neutralize any possible remaining acrylamide.

LARGE SPILLS:

Dry: Collect/contain granules and spray area with water.

Catalyzed/mixed liquid: Do not allow to dry. Dam up. Take up mechanically and collect in small suitable containers and cure with oxidizer. Spray spill area with potassium persulfate and sodium metabisulfite solutions to neutralize any possible remaining acrylamide.

ENVIRONMENTAL: Do not allow material to contaminate surface or ground water. Prevent product from entering drains.

7. HANDLING AND STORAGE

HANDLING: Take measures not to raise dust, mist and vapor. Wear protective clothing and respiratory protection. After leaving area, decontaminate all clothing. Wash hands and exposed skin areas thoroughly. Empty containers contain residue; observe all precautions and warnings listed for the product. Clean up the work area if contaminated.

STORAGE: Store in a cool, dry place and away from heat. Store below 104° F (40° C) with no exposure to direct sunlight. Provide good ventilation. Do not leave open to the atmosphere.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

ENGINEERING CONTROLS: Use local exhaust if misting occurs. Natural ventilation is adequate in absence of mists.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear safety goggles or face shield. Do not wear contact lenses.

SKIN: Wear chemically resistant boots, gloves, and chemical suit (Tychem or equivalent).

RESPIRATORY: If exposure exceeds occupational exposure limits, use an appropriate NIOSH approved full-face piece respirator, half-face piece respirator with splash goggles, or powered, filtered air-supplied hood.

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. Clean and inspect PPE before reuse. Do not eat, drink, or smoke in work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: White, crystalline granules, odorless

BOILING POINT: 257°F (125°C)

MELTING POINT: 184°F (85°C)

EVAPORATION RATE (Butyl Acetate=1): Not listed

VAPOR PRESSURE (mm Hg): 0.01 @ 68°F (20°C)

VAPOR DENSITY (Air=1): Not listed

SPECIFIC GRAVITY (Water=1): 1.150 g/cm³ @ 86°F (30°C)

SOLUBILITY IN WATER: Soluble – 200g/100g @ 68°F (20°C)

10. STABILITY AND REACTIVITY

STABILITY: Stable in sealed containers under normal conditions.

CONDITIONS TO AVOID: Avoid temperatures above 38°C and below freezing point (crystallization).

MATERIALS TO AVOID: Acids, alkalis, peroxides, oxidizing and reducing agents, carbon steel or rust.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition or combustion may generate toxic gases including carbon monoxide and ammonia.

HAZARDOUS POLYMERIZATION: May occur. Store below 104°F (40°C) with no exposure to direct sunlight.

11. TOXICOLOGICAL INFORMATION

CARCINOGENICITY: This material is listed as a potential carcinogen by OSHA, IARC, and NTP.

Epidemiology studies on workers involved with acrylamide monomer and polymerization operations have not shown any evidence of carcinogenicity to humans. It is investigated as a tumorigen, mutagen, and reproductive effector.

ACUTE ORAL LD50 (rat): 124 mg/kg

ACUTE DERMAL LD50 (rabbit): 252 mg/kg

12. ECOLOGICAL INFORMATION

If released to soil without catalysts, this material is expected to leach into the groundwater. When released into the soil, this material is expected to biodegrade in a relatively short period of time. This material is not expected to bio-accumulate. This material is not expected to be toxic to aquatic life.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Acrylamide, solid

HAZARD CLASS: 6.1

UN NUMBER: 2074

PACKING GROUP: III

LABEL: 6.1

PLACARD: Toxic or Poison

NMFC (NATIONAL MOTOR FREIGHT CARRIERS)

FREIGHT CLASS: 77.5

15. REGULATORY INFORMATION

SARA TITLE III

SECTION 313: Yes

REPORTABLE QUANTITY: 5000 lbs (40 CFR 302)

THRESHOLD PLANNING QUANTITY: 1000 lbs (40 CFR 355)

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

RCRA STATUS: Hazardous waste, if discarded.

HAZARDOUS WASTE NUMBER: U007

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.