

## AV-100® Chemical Grout (Granules)

### SECTION 1. IDENTIFICATION

|                                      |   |
|--------------------------------------|---|
| <b>Product Identifier</b>            | AV-100® Chemical Grout (Granules)   |
| <b>Other Means of Identification</b> | Acrylamide grout  |
| <b>Recommended Use</b>               | Industrial Use Only.  |
| <b>Restrictions on Use</b>           | Not for use in food applications.   |
| <b>Manufacturer/Supplier</b>         | Avanti International, 822 Bay Star Blvd, Webster, TX, 77598, USA, 281.486.5600, |
| <b>Emergency Phone No.</b>           | ChemTrec 800.424.9300   |
| <b>Date of Preparation</b>           | March 28, 2018  |
| <b>Date of Last Revision</b>         | May 23, 2023  |

### SECTION 2. HAZARD IDENTIFICATION

Classification: Classified according to Canada's Hazardous Products Regulations (WHMIS 2015) and the US Hazard Communication Standard (HCS 2012).

#### Label Elements

Hazard pictogram:



Signal word:

Danger

Hazard statements:

H301 Toxic if swallowed.  
H312 + H332 Harmful in contact with skin or if inhaled.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H340 May cause genetic defects.  
H350 May cause cancer.  
H361 Suspected of damaging fertility or the unborn child.  
H372 Causes damage to organs through prolonged or repeated exposure.  
H402 Harmful to aquatic life.

#### Precautionary Statements

Prevention:

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P264 Wash hands and skin thoroughly after handling.  
P270 Do not eat, drink, or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P272 Contaminated work clothing must not be allowed out of the workplace.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response: P301 + P310 IF SWALLOWED: Immediately call a POISON CENTRE or doctor.  
P302 + P352 IF ON SKIN: Wash with plenty of water/soap.  
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305 + P351 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
+ P338  
P308 + P313 IF exposed or concerned: Get medical advice/attention.  
P312 Call a POISON CENTRE or doctor if you feel unwell.  
P321 Specific treatment (see supplemental first aid instruction on this label).  
P330 Rinse mouth.  
P332 + P313 If skin irritation occurs: Get medical advice/attention.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse

Storage: P405 Store locked up

Disposal: P501 Dispose of contents and container in accordance with local, regional, national and international regulations.

#### Other Hazards

Other hazards: None known

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name                  | CAS No.  | %       | Other Identifiers | Other Names     |
|--------------------------------|----------|---------|-------------------|-----------------|
| Acrylamide solid               | 79-06-1  | min.95* | AAM               | 2-Propenamamide |
| Acrylamide, N,N'-methylenebis- | 110-26-9 | max. 5* | MBA               |                 |

\* Concentration range +/- 0.5%

Occupational exposure limits, if available, are listed in section 8.

### SECTION 4. FIRST AID MEASURES

#### First Aid Measures

General advice: If exposed or concerned, get medical advice or attention.

Eye contact: Avoid direct contact. Wear chemical protective gloves if necessary. Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open.

Skin contact: Avoid direct contact. Wear chemical protective clothing if necessary. Rinse with lukewarm, gently flowing water for 5 minutes. Get medical advice or attention if you feel unwell or are concerned. Safely dispose of contaminated clothing, shoes and leather goods. DO NOT re-use.

Inhalation: Take precautions to ensure your own safety before attempting rescue (e.g. wear appropriate protective equipment). Remove source of exposure or move to fresh air. Get medical advice or attention if you feel unwell or are concerned.

Ingestion: Never give anything by mouth if person is rapidly losing consciousness or is unconscious or convulsing. Do not induce vomiting. Rinse mouth with water. If vomiting occurs naturally, lie on your side in the recovery position. Rinse mouth with water again. Immediately call a Poison Centre or doctor.

#### Most Important Symptoms and Effects, Acute and Delayed

Symptoms may include coughing, choking, shortness of breath, difficult or rapid breathing and wheezing.

#### Immediate Medical Attention and Special Treatment

Target organs Nervous system

Medical Conditions Asthma, nervous system conditions, respiratory conditions.  
Aggravated by Exposure

## SECTION 5. FIRE FIGHTING MEASURES

### Extinguishing Media

Suitable: Use water to keep non-leaking, fire-exposed containers cool.

Unsuitable: None known

### Specific Hazards Arising from the Product

Closed containers may rupture violently when heated releasing contents.

Corrosive, flammable ammonia; very toxic carbon monoxide, carbon dioxide; corrosive, oxidizing nitrogen oxides

### Special Protective Equipment and Precautions for Firefighters

Protective equipment: Chemical protective clothing (e.g. chemical splash suit) and positive pressure SCBA may be necessary. See Skin Protection in Section 8 (Exposure Controls/Personal Protection) for advice on suitable chemical protective materials.

Special firefighting procedures: Evacuate area. Fight fire from a safe distance or a protected location. Approach fire from upwind to avoid hazardous vapours or gases.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment, and Emergency Procedures

Evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel. Do not touch damaged containers or spilled product unless wearing appropriate protective equipment. Use the personal protective equipment recommended in Section 8 of this safety data sheet.

Environmental precautions: Do not allow into any sewer, on the ground or into any waterway.

### Methods and Materials for Containment and Cleaning Up

Small spills:

Avoid generating dust. Collect using shovel/scoop or approved HEPA vacuum and place in a suitable container for disposal. Store recovered product in suitable containers that are: covered. Contact emergency services and manufacturer/supplier for advice.

### Other Information

Report spills to local health, safety and environmental authorities, as required.

## SECTION 7. HANDLING AND STORAGE

### Precautions for safe handling:

Only use where there is adequate ventilation. Avoid generating dusts. Prevent uncontrolled release of product. Prevent accidental contact with incompatible chemicals. General hygiene considerations: it is good practice to avoid breathing product; avoid skin and eye contact and wash hands after handling. Consider using a double locker-shower facility. Do NOT smoke in work areas. Do NOT eat, drink or store food in work areas.

### Conditions for safe storage:

Store in an area that is: cool, well-ventilated, separate from incompatible materials (see Section 10: Stability and Reactivity). Empty containers may contain hazardous residue. Store separately. Keep closed. Follow all precautions given on this Safety Data Sheet.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| Control Parameters | ACGIH TLV®                         |      | OSHA PEL                 |      | AIHA WEEL |     |
|--------------------|------------------------------------|------|--------------------------|------|-----------|-----|
|                    | TWA                                | STEL | TWA                      | STEL | 8-hr TWA  | TWA |
| Chemical Name      |                                    |      |                          |      |           |     |
| Acrylamide solid   | 0.03<br>mg/m <sup>3</sup><br>(IFV) |      | 0.3<br>mg/m <sup>3</sup> |      |           |     |

Appropriate engineering controls: Use local exhaust ventilation and enclosure, if necessary, to control amount in the air.

### Individual Protection Measures

Eyes/face protection: Wear chemical safety goggles and face shield when contact is possible.

Skin/hand/body protection: Wear a chemical splash suit and respiratory protection. Wear chemical protective clothing e.g. gloves, aprons, boots.  
Suitable materials: nitrile rubber, neoprene rubber, polyvinyl chloride, polyethylene, butyl rubber, Viton®.  
Suitable materials: Barrier® (PE/PA/PE), Tychem® SL (Saranex™).

Respiratory protection: Wear a NIOSH approved air-purifying respirator with an organic vapour cartridge. And wear a NIOSH approved air-purifying respirator with N100, R100, or P100 filter(s). Either full-face piece or half-face piece with splash goggles.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** White crystalline powder

**Odor:** Odourless

**Odor threshold:** Not available

**pH:** Not available

**Melting/freezing point:** 184 °F (84 °C) (Acrylamide solid) (melting); Not applicable (freezing)

**Initial boiling point and boiling range:** 378 °F (192 °C) (Acrylamide solid)

**Flash point:** 280.4 °F (138.0 °C)

**Flash point method:** Not applicable

**Evaporation rate:** Not available

**Flammability (solid, gas):** Not available

**Upper/lower flammability or explosive limits:** Not available (upper); Not available (lower)

**Vapor pressure:** 0.001 kPa (0.007 mm Hg) at 77 °F (25 °C) (Acrylamide solid)

**Vapor density (air=1):** Not available

**Relative density (water=1):** 1.122 at 68 °F (20 °C) (Acrylamide solid)

**Solubility:** 204 g/L (Very soluble) in water; Not available (in other liquids)

**Partition coefficient n-octanol/water:** Not available

**Auto-ignition temperature:** 464 °F (240 °C) (Acrylamide solid)

**Decomposition temperature:** > 185 °F (85 °C)

**Viscosity:** Not available (kinematic); Not available (dynamic)

**Other Information**

**Physical State:** Solid

**Molecular Weight:** 71.08

## SECTION 10. STABILITY AND REACTIVITY

Reactivity: Can undergo vigorous polymerization.

Chemical stability: Normally stable. Unstable under certain conditions - see Conditions to Avoid.

|                                     |   |
|-------------------------------------|---|
| Possibility of hazardous reactions: | Polymerizes violently in the presence of heat, sunlight.  |
| Conditions to avoid:                | Sunlight. Temperatures above 85.0 °C (185.0 °F)   |
| Incompatible materials:             | Polymerizes violently on contact with oxidizing agents (e.g. peroxides).  |
| Hazardous decomposition products:   | Very toxic carbon monoxide, carbon dioxide; corrosive, flammable ammonia; corrosive, oxidizing nitrogen oxides. |

## SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Ingestion; inhalation; skin contact; eye contact.

| Product Name                    | LC50 | Oral ATEMix* | Dermal ATEMix** |
|---------------------------------|------|--------------|-----------------|
| AV-100 Chemical Grout, granular | N/A  | 181.97 mg/kg | 1201.05 mg/kg   |

|                                   |  |
|-----------------------------------|--|
| Skin corrosion or irritation:     | Not a skin irritant.   |
| Serious eye damage or irritation: | Animal tests show serious eye irritation.                                      |
| Respiratory sensitization:        | May cause an allergic reaction (skin sensitization) based on limited evidence. |

Skin sensitization:

Germ cell mutation: No information was located for: STOT (Specific Target Organ Toxicity) - Single Exposure, Aspiration Hazard, Development of Offspring, Effects on or via Lactation, Interactive Effects

Carcinogenicity:

| Chemical Name    | IARC     | ACGIH® | NTP                    | OSHA       |
|------------------|----------|--------|------------------------|------------|
| Acrylamide solid | Group 2A | A3     | Reasonably anticipated | Not Listed |

May cause cancer. IARC: Group 2A – Probably carcinogenic to humans. (Acrylamide solid) ACGIH®: A3 – Confirmed animal carcinogen. (Acrylamide solid) NTP: Reasonably anticipated human carcinogen. (Acrylamide solid)

Key to Abbreviations

IARC = International Agency for Research on Cancer. Group 2A = Probably carcinogenic to humans. ACGIH® = American Conference of Governmental Industrial Hygienists. A3 = Animal carcinogen. NTP = National Toxicology Program. Reasonably anticipated = Reasonably anticipated human carcinogen.

Reproductive toxicity: Sexual function and fertility: If swallowed: animal studies show effects on sexual function and/or fertility. Has been associated with reduced male fertility. (Acrylamide solid)

### Specific Target Organ Toxicity

Repeated exposure: If inhaled and/or swallowed: causes damage to organs effects on the peripheral nervous system.

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity Data

No information was located.

### Acute Aquatic Toxicology

| Chemical Name                   | LC50 Fish              | EC50 Crustacea       | ErC50 Aquatic Plants | ErC50 Algae |
|---------------------------------|------------------------|----------------------|----------------------|-------------|
| Acrylamide solid                | 100-162 mg/L (96-hour) | 98-98 mg/L (48-hour) |                      |             |
| Acrylamide, N, N'-methylenebis- | > 100                  |                      |                      |             |

Persistence and degradability: Degrades rapidly based on quantitative tests.

Bioaccumulative potential: Fish Bioconcentration Factor: 1.65. (Acrylamide solid) this product or its degradation products are expected to bioconcentrate in aquatic organisms. (Acrylamide solid) bioaccumulation: 710 µg/l (72 hr), Oncorhynchus mykiss. (Acrylamide solid)

Mobility in soil: Studies are not available.

Other adverse effects: There is no information available.

## SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods: Dispose of contents and container in accordance with local, regional, national and international regulations. Empty containers retain product residue. Follow label warnings even if container appears to be empty. Do not reuse empty containers.

Consult your local or regional authorities.  
Refer to section 7 for handling precautions and to section 8 for information on personal protective equipment.

## SECTION 14. TRANSPORT INFORMATION

### Regulatory Information

|              | UN No. | Proper Shipping Name                 | Transport Hazard Class(es) | Packing Group | EmS      |
|--------------|--------|--------------------------------------|----------------------------|---------------|----------|
| US DOT       | 2074   | Acrylamide, Solid (Acrylamide solid) | 6.1                        | III           |          |
| Canadian TDG | 2074   | Acrylamide, Solid (Acrylamide solid) | 6.1                        | III           |          |
| IMDG         | 2074   | Acrylamide, Solid (Acrylamide solid) | 6.1                        | III           | F-A, S-A |
| IATA         | 2074   | Acrylamide, Solid (Acrylamide solid) | 6.1                        | III           |          |

**Environmental Hazards** Not applicable.

**Special Precautions** Not applicable.

**Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code**  
Not applicable

**Other Information** NMFC (National Motor Freight Carriers) Freight Class: 77.5

## SECTION 15. REGULATORY INFORMATION

### United States

#### SARA Title III section 302/313

The following ingredients are subject to reporting levels established by SARA Title III, Section 302:

Acrylamide, CAS-No.79-06-1, 95%

The following components are subject to reporting levels established by SARA Title III, Section 313:

Acrylamide, CAS-No.79-06-1, 95%

#### SARA Title III - Section 311/312:

Acute, Chronic Acrylamide, CAS-No.79-06-1

#### Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

#### Additional USA Regulatory Lists

CERCLA: 5000 lbs. (Acrylamide solid)

**California Proposition 65:** CAS: 79-06-1. (Acrylamide solid) Warning: This product contains a chemical(s) known to the state of California to cancer and birth defects or other reproductive; Massachusetts Right To Know: New Jersey Right To Know: Pennsylvania Right To Know: CAS: 79-06-1. (Acrylamide solid)

## Canada

### Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL/NDSL.

### CEPA - National Pollutant Release Inventory (NPRI)

Part 1A. (Acrylamide solid)

## SECTION 16. OTHER INFORMATION

|                        |                      |   |                 |
|------------------------|----------------------|---|-----------------|
| NFPA Rating:           | Health - 2           | Flammability - 1  | Instability - 2 |
| SDS Prepared By:       | Avanti International |   |                 |
| Date of Preparation:   | March 28, 2018       |   |                 |
| Date of Last Revision: | May 23, 2023         |   |                 |
| Revision Indicators:   | Not applicable       |   |                 |
| Key to Abbreviations:  | ACGIH®               | American Conference of Governmental Industrial Hygienists |                 |
|                        | NFPA                 | National Fire Protection Association                      |                 |
|                        | NIOSH                | National Institute for Occupational Safety and Health     |                 |
|                        | NTP                  | National Toxicology Program                               |                 |
|                        | OSHA                 | US Occupational Safety and Health Administration          |                 |
|                        | RTECS®               | Registry of Toxic Effects of Chemical Substances          |                 |

References CHEMINFO database. HSDB® database. US National Library of Medicine. NIOSH Pocket Guide database. National Institute for Occupational Safety and Health. Registry of Toxic Effects of Chemical Substances (RTECS®) database. Dassault Systèmes/BIOVIA (“BIOVIA”).