

AV-100 Chemical Grout® (Liquid)

SECTION 1. IDENTIFICATION

Product Identifier	AV-100 Chemical Grout® (Liquid)
Other Means of Identification	Acrylamide Grout Solution
Recommended Use	Industrial Use Only.
Restrictions on Use	None known.
Manufacturer/Supplier Identifier	Avanti International, 822 Bay Star Blvd, Webster, TX, 77598, USA, 281.486.5600, avantigrout.com
Emergency Phone No.	ChemTrec, 800.424.9300
Date of Preparation	February 28, 2018

SECTION 2. HAZARD IDENTIFICATION

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

Classification

Acute toxicity (Oral) - Category 4; Acute toxicity (Inhalation) - Category 4; Skin irritation - Category 2; Eye irritation - Category 2A; Skin sensitization - Category 1; Germ cell mutagenicity - Category 1; Carcinogenicity - Category 1; Reproductive toxicity - Category 2; Specific target organ toxicity (repeated exposure) - Category 1; Aquatic hazard (Acute) - Category 3

Label Elements



Danger

Hazard Statement(s):

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H340	May cause genetic defects.
H350	May cause cancer.
H361	Suspected of damaging fertility or the unborn child.
H372	Causes damage to organs (respiratory system) through prolonged or repeated exposure if inhaled and/or swallowed.

Precautionary Statement(s):

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.

Product Identifier:	AV-100 Chemical Grout® (Liquid) - Ver. 1
Date of Preparation:	February 28, 2018
Date of Last Revision:	May 13, 2021

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.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response:
P301 + P312 IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.
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 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice or attention.
P312 Call a POISON CENTRE or doctor if you feel unwell.
P333 + P313 If skin irritation or rash occurs: Get medical advice or attention.
P337 + P313 If eye irritation persists: Get medical advice or 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
None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Acrylamide solid	79-06-1	36	AAM	2-propenamide
Acrylamide, N,N'-methylenebis-	110-26-9	2	MBA	

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Remove source of exposure or move to fresh air. Get medical advice or attention if you feel unwell.

Skin Contact

Avoid direct contact. Wear chemical protective clothing if necessary. Immediately wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 15-20 minutes. If skin irritation or a rash occurs, get medical advice or attention.

Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Remove contact lenses, if present and easy to do. If eye irritation persists, get medical advice or attention.

Ingestion

Rinse mouth with water. Get medical advice or attention if you feel unwell or are concerned.

First-aid Comments

Get medical advice or attention if you feel unwell or are concerned.

Most Important Symptoms and Effects, Acute and Delayed

Symptoms may include coughing, shortness of breath, difficult breathing and tightness in the chest. Can harm the nervous system. May cause mild irritation.

Product Identifier: AV-100 Chemical Grout® (Liquid) - Ver. 1
Date of Preparation: February 28, 2018
Date of Last Revision: May 13, 2021

Immediate Medical Attention and Special Treatment

Target Organs

Nervous system.

Special Instructions

Not applicable.

Medical Conditions Aggravated by Exposure

None known.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Not combustible. Use extinguishing agent suitable for surrounding fire.

Unsuitable Extinguishing Media

None known.

Specific Hazards Arising from the Product

This product presents no unusual hazards in a fire situation.

In a fire, the following hazardous materials may be generated: very toxic carbon monoxide, carbon dioxide; corrosive, oxidizing nitrogen oxides.

Special Protective Equipment and Precautions for Fire-fighters

Evacuate area. Fight fire from a safe distance or a protected location.

Chemical protective clothing (e.g. chemical splash suit) and positive pressure SCBA may be necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

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. Evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel.

Environmental Precautions

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

Methods and Materials for Containment and Cleaning Up

Large spills or leaks: dike spilled product to prevent runoff. Cure spilled material with oxidizer.

Other Information

Report spills to local health, safety and environmental authorities, as required. Contact supplier, local fire and emergency services for help.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Obtain special instructions before use. Do not breathe in this product. Avoid repeated or prolonged skin contact. Do not get in eyes. Do not swallow. Avoid generating vapours or mists. Prevent uncontrolled release of product. Wear personal protective equipment to avoid direct contact with this chemical. Keep containers tightly closed when not in use or empty. General hygiene considerations: it is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling. Do NOT smoke in work areas. Do NOT eat, drink or store food in work areas. Remove contaminated clothing and protective equipment before entering eating areas or leaving work area. Consider using a double locker-shower facility. Clean clothing, shoes and leather goods.

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. Comply with all applicable health and safety regulations, fire and building codes.

Product Identifier: AV-100 Chemical Grout® (Liquid) - Ver. 1

Date of Preparation: February 28, 2018

Date of Last Revision: May 13, 2021

Page 03 of 08

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Acrylamide solid	0.03 mg/m3 (IFV)		0.3 mg/m3			

Appropriate Engineering Controls

Use local exhaust ventilation and enclosure, if necessary, to control amount in the air. Provide eyewash and safety shower if contact or splash hazard exists.

Individual Protection Measures

Eye/Face Protection

Wear chemical safety goggles and face shield when contact is possible.

Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots. Wear a chemical splash suit and respiratory protection.

Chemical Resistant Gloves: Suitable materials are: butyl rubber, nitrile rubber, polyethylene, polyvinyl chloride, Viton®. Chemical Resistant Suit: Suitable materials are: 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

Basic Physical and Chemical Properties

Appearance	Clear liquid.
Odour	Odourless
Odour Threshold	Not available
pH	6.0 - 8.0; Neutral
Melting Point/Freezing Point	43 °F (6 °C) (melting); 43 °F (6 °C) (freezing)
Initial Boiling Point/Range	212 °F (100 °C)
Flash Point	Not applicable
Evaporation Rate	Not available
Flammability (solid, gas)	Not applicable (liquid).
Upper/Lower Flammability or Explosive Limit	Not applicable (upper); Not applicable (lower)
Vapour Pressure	15.2 mm Hg (2.0 kPa) at 68 °F (20 °C)
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	1.03 at 77 °F (25 °C)
Solubility	Soluble in all proportions in water; Not available (in other liquids)
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	Not available (kinematic); 1 - 5 centipoises at 77 °F (25 °C) (dynamic)
Other Information	
Physical State	Liquid
Vapour Pressure at 50 deg C	Not available

Product Identifier: AV-100 Chemical Grout® (Liquid) - Ver. 1

Date of Preparation: February 28, 2018

Date of Last Revision: May 13, 2021

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

None expected under normal conditions of storage and use.

Conditions to Avoid

Sunlight. Temperatures above 85.0 °C (185.0 °F)

Incompatible Materials

Polymerizes on contact with: oxidizing agents (e.g. peroxides).
Not corrosive to metals.

Hazardous Decomposition Products

Very toxic carbon monoxide, carbon dioxide; corrosive, flammable ammonia; corrosive, oxidizing nitrogen oxides.

SECTION 11. TOXICOLOGICAL INFORMATION

Information presented below is for the entire product, unless otherwise specified.

Likely Routes of Exposure

Ingestion; skin absorption; inhalation; eye contact.

Acute Toxicity

LC50: No information was located.

Oral ATEmix = 479.57 mg/kg

0% of the mixture consists of an ingredient or ingredients of unknown acute toxicity (oral)

Dermal ATEmix = 3169.44 mg/kg

2% of the mixture consists of an ingredient or ingredients of unknown acute toxicity (dermal)

Skin Corrosion/Irritation

Not a skin irritant.

Serious Eye Damage/Irritation

Animal tests show mild irritation. (Acrylamide solid)

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

No information was located.

Skin Absorption

No information was located.

Ingestion

No information was located.

Aspiration Hazard

No information was located.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

Causes effects on the peripheral nervous system. (Acrylamide solid)

Respiratory and/or Skin Sensitization

May cause an allergic reaction (skin sensitization) based on limited evidence. (Acrylamide solid)

Carcinogenicity

Product Identifier: AV-100 Chemical Grout® (Liquid) - Ver. 1

Date of Preparation: February 28, 2018

Date of Last Revision: May 13, 2021

Page 05 of 08

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

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

Reproductive Toxicity

Development of Offspring

Animal studies show effects on the offspring. (Acrylamide solid)

Sexual Function and Fertility

Animal studies show effects on sexual function and/or fertility. Has been associated with: reduced male fertility. (Acrylamide solid)

Effects on or via Lactation

No information was located.

Germ Cell Mutagenicity

Causes mutagenicity in in vitro tests. (Acrylamide solid)

Interactive Effects

No information was located.

Other Information

No other information was located.

No information was located for: STOT (Specific Target Organ Toxicity) - Single Exposure, Aspiration Hazard

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No information was located.

Acute Aquatic Toxicity

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

No ingredient of this product or its degradation products is known to be highly persistent.

Bioaccumulative Potential

Fish Bioconcentration Factor: 1.65 bioaccumulation: 710 µg/l (72 hr), Oncorhynchus mykiss. (Acrylamide solid)

Mobility in Soil

No information was located.

Other Adverse Effects

There is no information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Product Identifier: AV-100 Chemical Grout® (Liquid) - Ver. 1

Date of Preparation: February 28, 2018

Date of Last Revision: May 13, 2021

Page 06 of 08

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

SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
US DOT	3426	Acrylamide, Solution	6.1	III
Canadian TDG	3426	Acrylamide, Solution	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

Safety, Health and Environmental Regulations

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.

USA

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

All ingredients are listed on the TSCA Inventory.

Additional USA Regulatory Lists

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 harm CERCLA: 5000 lbs CAS: 79-06-1. (Acrylamide solid) CAS: 79-06-1. (Acrylamide solid) SARA Title III - Section 302. (Acrylamide solid) SARA Title III - Section 311/312: Acute; Chronic SARA Title III - Section 313: CAS: 79-06-1. (Acrylamide solid) CAS: 79-06-1 Massachusetts Right To Know: New Jersey Right To Know: Pennsylvania Right To Know: CAS: 79-06-1. (Acrylamide solid)

SECTION 16. OTHER INFORMATION

NFPA Rating Health - Not assigned. Flammability - 0 Instability - 0

SDS Prepared By Avanti International

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Revision Indicators The following SDS content was changed on March 05, 2018:
SECTION 11. TOXICOLOGICAL INFORMATION; Carcinogenicity.

Key to Abbreviations ACGIH® = American Conference of Governmental Industrial Hygienists
IARC = International Agency for Research on Cancer
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

Product Identifier: AV-100 Chemical Grout® (Liquid) - Ver. 1

Date of Preparation: February 28, 2018

Date of Last Revision: May 13, 2021

References

CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS).
HSDB® database. US National Library of Medicine. Available from Canadian Centre for Occupational Health and Safety (CCOHS). NIOSH Pocket Guide database. National Institute for Occupational Safety and Health. Available from Canadian Centre for Occupational Health and Safety (CCOHS). Registry of Toxic Effects of Chemical Substances (RTECS®) database. Dassault Systèmes/BIOVIA ("BIOVIA"). Available from Canadian Centre for Occupational Health and Safety (CCOHS).

Product Identifier: AV-100 Chemical Grout® (Liquid) - Ver. 1
Date of Preparation: February 28, 2018
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