



AV-105 GEL GUARD SAFETY DATA SHEET

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Section 1: Identification

GHS Product Identifier: AV-105 Gel Guard

Classification: Additive

Product Use: Industrial Use Only

Supplier

Avanti International
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24 HR. EMERGENCY TELEPHONE NUMBER

Chemtrec: 800.424.9300

Section 2: Hazards Identification

GHS Classification

Hazard Class

Acute tox.

STOT RE

Category

4

2

Exposure Route

Acute toxicity (Oral)

Specific target organ toxicity – repeated exposure
(Kidney)

GHS Label Elements

Hazard pictograms:



Signal Word:	Warning
Hazards Statements:	
H302	Harmful if swallowed.
H373	May cause damage to organs through prolonged or repeated exposure.
Precautionary Statements:	Prevention:
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash skin and face thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
	Response:
P301 + P312 + P330	IF SWALLOWED: Call a poison center or doctor/physician if you feel unwell. Rinse mouth.
P314	Get medical advice/attention if you feel unwell.
	Storage:
P405	Store Locked up.
	Disposal:
P501	Dispose of contents and container in accordance with existing federal, state, and local environmental control laws.

Hazards not otherwise classified

No specific dangers known, if the regulations/notes for storage and handling are considered.

Section 3: Composition/Information on Ingredients

Weight %	Components	CAS-No.	Classification
<=100	Ethylene glycol	107-21-1	Acute toxicity Category 4 (Oral). Specific target organ toxicity - Repeated exposure Category 2 (Kidney)

Section 4: First-Aid Measures

Description of First-Aid Measures

General advice:

Remove contaminated clothing.

If inhaled:

Move victim to fresh air. If not breathing, give artificial respiration. Get medical attention.

If on skin:

Wash affected areas thoroughly with soap and water. If irritation develops, seek medical attention.

If in eyes:

In case of contact with the eyes, rinse immediately for at least 20 minutes with plenty of water holding eyelids open. Get medical attention.

If swallowed:

Rinse mouth and then drink plenty of water. Do not induce vomiting. Never induce vomiting or give anything by mouth to an unconscious victim. Get medical attention.

Most important symptoms and effects, both acute and delayed:

The most important known symptoms and effects are described in Section 2 and or Section 11.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media: Dry chemical, foam, sand and soil, CO₂ and water spray for large fires.

Unsuitable Extinguishing Media: N/A

Fire-fighting Procedure

Firefighters should wear NFPA compliant structural firefighting protective equipment, including self-contained breathing apparatus and NFPA compliant helmet, hood, boots and gloves. Avoid contact with product. Decontaminate equipment and protective clothing prior to reuse. Prevent, by any means available, spillage from entering drains or water courses. Use water delivered as a fine spray to control fire and cool adjacent area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire.

Hazardous Decomposition Products By Fire and High Heat: Carbon dioxide (CO₂), carbon monoxide (CO).

Unusual Fire/Explosion Hazards None

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Clear danger area. Ensure adequate ventilation. Remove ignition sources. Wear suitable personal protective clothing and equipment.

Environmental Precautions

Do not discharge into drains/surface waters/groundwater.

Methods and Material for Containment and Cleaning-Up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Section 7: Handling and Storage

Precautions for Safe Handling

Avoid ingestion, inhalation, skin and eye contact. Avoid inhalation of vapor or mist. Handle in accordance with good industrial hygiene practice and any legal requirements.

Conditions for Safe Storage (Including Any Incompatibilities)

Storage incompatibility: Avoid oxidizers.

Suitable materials for containers: HDPE, metal

Storage stability:

Storage temperature: 45-95 °F

Section 8: Exposure Controls/Personal Protection

Components with Occupational Exposure Limits

Ethylene glycol

ACGIH TLV

TWA value 100 mg/m³

OSHA PEL

Not established

Advice on system design:

Provide local exhaust ventilation to control vapors/mists.



Personal Protective Equipment

Respiratory Protection:

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hand Protection:

Chemical resistant protective gloves, Suitable materials, chloroprene rubber (Neoprene), chlorinated polyethylene, polyvinylchloride (Pylox), butyl rubber, fluoroelastomer (Viton), nitrile rubber (Buna N)

Eye Protection:

Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

General Safety and Hygiene Measures:

Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Wash hands before breaks and after shifts. Wear protective clothing as necessary to prevent contact. Eye wash fountains and safety showers must be easily accessible. Observe the appropriate PEL value. Wash soiled clothing immediately. Contaminated equipment or clothing should be cleaned after each use or disposed of.

Section 9: Physical and Chemical Properties

Appearance: Clear liquid

Odor: Odorless

Odor Threshold: Not determined

pH: Not determined

Freezing Point: 9°F (-13°C)

Boiling Point: 385-388°F (196-198°C)

Flashpoint: 232 °F (111 °C) - closed cup

Evaporation Rate: 1

Flammability: Not flammable
Lower Explosion Limits: 3.2 %(V)
Upper explosion limits: 15.3 %(V)
Vapor Pressure: 0.11 hPa (0.08 mmHg) at 68°F (20°C)
Vapor Density: 2.14 - (Air = 1.0)
Relative Density: 1.113 @ 77°F (25°C)
Solubility in Water: completely soluble
Partition Coefficient n-octanol/water: log Pow: -1.36
Auto-ignition Temperature: 752°F (400°C) Auto-flammability
Decomposition Temperature: Not determined
Viscosity: Not determined

Section 10: Stability and Reactivity

Reactivity

No data available

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

No data available.

Conditions to avoid

No data available.

Incompatible materials

Strong acids, Strong oxidizing agents, Strong bases, Aldehydes, Aluminum.

Hazardous decomposition products

No data available.

Section 11: Toxicological Information

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Acute toxicity

Oral

Type of value: LD50

Species: rat (male/female)

Value: 4,700 mg/kg

Literature Data

Inhalation

No Data

Dermal

Type of value: LD50

Species: rabbit (male/female)

Value: 10,626 mg/kg

Literature Data

Assessment Other Acute Effects

Assessment of STOT single: no data.

Irritation / Corrosion

Assessment of irritating effects:

Skin Rabbit (no irritation-24hr) Eyes Rabbit (mild eye irritation-24hr)

Sensitization

Assessment of sensitization: No data

Chronic Toxicity/EffectsRepeated Dose Toxicity

Assessment of repeated dose toxicity: No data

Genetic Toxicity

Assessment of mutagenicity: No Data.

Carcinogenicity

No data

Reproductive toxicity

Assessment of reproduction toxicity: No data

Teratogenicity

Assessment of teratogenicity: No data.

Development

No Data

Specific target organ toxicity – repeated exposure

Oral - May cause damage to organs (kidney) through prolonged or repeated exposure.

Additional Information

RTECS: KW2975000

When ingested early symptoms mimic alcohol inebriation and are followed by nausea, vomiting, abdominal pain, weakness, muscle tenderness, respiratory failure, convulsions, cardiovascular collapse, pulmonary edema, hypo calcemic tetany, and severe metabolic acidosis. Without treatment, death may occur in 8 to 24 hours. Victims who survive the initial toxicity period usually develop renal failure along with brain and liver damage. Exposure to and/or consumption of alcohol may increase toxic effects.

Central nervous system - Irregularities - Based on Human Evidence

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Section 12: Ecological Information**Toxicity**Aquatic Toxicity

Toxicity to fish

LC50 (96 h) 18,500 mg/l, Oncorhynchus mykiss (rainbow trout)

Literature data.

Aquatic invertebrates

EC50 - Daphnia (water flea) – 74,000 mg/l - 24 h

Literature data

Microorganisms/Effect on Activated Sludge

The product has not been tested.

Persistence and Degradability

Assessment Biodegradation and Elimination (H₂O)

Ratio BOD/ThBOD 0.78 %

Literature data

Bioaccumulation Potential

Does not bioaccumulate.

Bioconcentration factor (BCF): 0.60

Mobility in soil

No data.

Additional information

None

Section 13: Disposal Considerations

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

Section 14: Transport Information**DOT (Department of Transportation)**

Proper Shipping Name: Not regulated if shipped in container less than RQ amount

Hazard Class: Not applicable

UN Number: Not applicable

Packing Group: Not applicable

Label: Not applicable

Placard: Not applicable

NMFC (National Motor Freight Carriers)

Freight Class: 60

RQ: 5,000 lbs.

Section 15: Regulatory Information

EPCRA 311/312 (hazard categories): Acute; Chronic

CAS Number Chemical name

107-21-1 Ethylene glycol

EPCRA 313:

CAS Number Chemical name

107-21-1 Ethylene glycol

CERCLA RQ CAS Number Chemical name

107-21-1 Ethylene glycol Reportable Quantity (5,000 lbs)

State regulations

State RTK CAS Number Chemical name

MA, NJ, PA 107-21-1 Ethylene glycol

CA Prop. 65:

WARNING: None.

NFPA Hazard codes:

Health : 1 - Fire: 1 - Reactivity: 0 - Special:

HMIS III rating

Health: 1* - Flammability: 1 – Physical Hazard: 0 – PPE:

(*) Chronic Health Hazard

Section 16: Other Information

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