



## VAPCO PRODUCTS, INC.

### Safety Data Sheet Glycol Inhibitor

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#### SECTION 1: Identification

##### 1.1 GHS Product identifier

Product name	Glycol Inhibitor
Product number	GI-1, GI-5, GI-55
Brand	Vapco

##### 1.3 Recommended use of the chemical and restrictions on use

Glycol Inhibitor

##### 1.4 Supplier's details

Name	Vapco Products, Inc.
Address	401 Marshall Road Valley Park, Missouri 63088 USA
Telephone	(636) 923-2121
Fax	(636) 923-3002
email	info@VapcoProducts.com

##### 1.5 Emergency phone number

(800) 255-3924

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#### SECTION 2: Hazard identification

##### General hazard statement

**EMERGENCY OVERVIEW:** This product is clear liquid with no odor.

**Health Hazards:** May cause serious eye irritation. May cause skin and/or respiratory irritation.

**Flammability Hazards:** This product is not flammable.

**Reactivity Hazards:** Corrosive to metal.

**Environmental Hazards:** This product may have adverse effects to the aquatic environment.

##### 2.1 Classification of the substance or mixture

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GHS classification in accordance with: OSHA (29 CFR 1910.1200)

- Eye damage/irritation, Cat. 2A
- Corrosive to metals, Cat. 1
- Skin corrosion/irritation, Cat. 2
- Specific target organ toxicity (single exposure), Cat. 3

### 2.2 GHS label elements, including precautionary statements

#### Pictogram



#### Signal word

#### Warning

#### Hazard statement(s)

H290

May be corrosive to metals

H315

Causes skin irritation

H319

Causes serious eye irritation

H335

May cause respiratory irritation

#### Precautionary statement(s)

P234

Keep only in original container.

P261

Avoid breathing dust/fume/gas/mist/vapors/spray.

P264

Wash hands thoroughly after handling.

P271

Use only outdoors or in a well-ventilated area.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352

IF ON SKIN: Wash with plenty of water.

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.

P312

Call a POISON CENTER or doctor if you feel unwell.

P321

Specific treatment (see First Aid on this label).

P332+P313

If skin irritation occurs: Get medical advice/attention.

P337+P313

If eye irritation persists: Get medical advice/attention.

P362+P364

Take off contaminated clothing and wash it before reuse.

P390

Absorb spillage to prevent material-damage.

P403+P233

Store in a well-ventilated place. Keep container tightly closed.

P405

Store locked up.

P406

Store in a corrosive resistant container with a resistant inner liner.

P501

Dispose of contents/container according to local, regional, national, and international regulations.

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## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous components

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## 1. Phosphoric acid, Dipotassium salt

Concentration 50 - 70 % (weight)  
EC no. 231-834-5  
CAS no. 7758-11-4

- Skin corrosion/irritation, Cat. 2
- Eye Irrit. 2A

With water introduced:

- STOT SE 3
- Corrosive to metals, Cat. 1

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## SECTION 4: First-aid measures

### 4.1 Description of necessary first-aid measures

General advice	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
If inhaled	First, take proper precautions to ensure your own safety before attempting rescue (e.g. wear appropriate respiratory protective equipment, use the buddy system), then remove the exposed person to fresh air. Keep at rest in a position comfortable for breathing. Get medical advice/attention. If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention.
In case of skin contact	Immediately drench affected area with water for at least 15 minutes. Remove contaminated clothing immediately. Obtain medical attention if irritation develops or persists.
In case of eye contact	Immediately rinse with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.
If swallowed	Rinse mouth. Do NOT induce vomiting. Obtain medical attention. If large quantities of this product is swallowed, call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluent (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or SDS with the victim to the health professional.

### 4.2 Most important symptoms/effects, acute and delayed

Exposure to skin and eyes may cause immediate or delayed irritation. Respiratory irritation may be caused from inhalation. Ingestion may cause nausea, vomiting, and diarrhea.

### 4.3 Indication of immediate medical attention and special treatment needed, if necessary

**Medical Conditions Aggravated by Exposure:** Pre-existing skin, respiratory system or eye problems may be aggravated by prolonged contact.

**Recommendations to Physicians:** Treat symptoms and eliminate overexposure.

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## SECTION 5: Fire-fighting measures

### 5.1 Suitable extinguishing media

Water spray, fog, carbon dioxide (CO<sub>2</sub>), alcohol-resistant foam, dry chemical, or sand. Use appropriate media for surrounding fire.

### 5.2 Specific hazards arising from the chemical

Explosion Sensitivity to Mechanical Impact: No

Explosion Sensitivity to Static Discharge: No

### 5.3 Special protective actions for fire-fighters

**Precautionary Fire Measures:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use dry chemical, foam, or carbon dioxide (CO<sub>2</sub>). Do not breathe fumes from fire or vapors from decomposition. Do NOT fight fire when fire reaches containers. Evacuate area. Fight fire remotely due to the risk of explosion. Shut off all sources of ignition. Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection. Wear NIOSH-approved Self-Contained Breathing Apparatus with a full face piece operated in a positive pressure demand mode with full body protective clothing when fighting fires.

**Hazardous Combustion Products:** Oxides of phosphorus and oxides of potassium

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

**General Measures:** Do not get in eyes, on skin, or on clothing. Do not breathe vapors, spray, mist, gas. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

#### For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedure:** Eliminate ignition sources first, then ventilate the area. Evacuate unnecessary personnel, isolate, and ventilate area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

#### For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protective equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel. Stop leak if safe to do so.

### 6.2 Environmental precautions

Construct a dike to prevent spreading of dilution water. If possible, prevent entry to sewers, storm drains, surface waters, and soils.

### 6.3 Methods and materials for containment and cleaning up

**For Containment:** Ventilate the area. Contain any spills with dikes or absorbents to prevent further migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Eliminate all ignition sources. Ventilate area. Stop the ignition source of the release, if safe to do so. Consider the use of water spray to disperse vapors. Isolate the area until gas has dispersed. Ventilate and gas test area before entering. Take up liquid spill into absorbent material. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

**Waste Disposal:** Dispose of in accordance with local, regional, national, and international regulations. Containers may be hazardous when empty. Do not flame cut, braze, or weld. Product should be fully characterized prior to disposal (40 CFR 261).

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## Reference to other sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

**Precautions for Safe Handling:** Do not handle until all safety precautions have been read and understood. Avoid contact with skin, eyes and clothing. Do not breathe gas, mist, spray, vapors. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not spray on open flame or other ignition source.

**Additional Hazards When Processed:** Do not pressurize, cut, or weld containers. Do not pierce or burn, even after use.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures.

**Other Precautions:** Keep out of reach of children. Follow label instructions. Vapors may collect in low lying areas.

### 7.2 Conditions for safe storage, including any incompatibilities

**Technical Measures:** Comply with applicable regulations. Proper grounding procedures to avoid static electricity should be followed.

**Storage Conditions:** Store in a dry, cool place. Keep only in the original container in a cool, well-ventilated place away from ignition sources. Protect from sunlight. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store locked up/in a secure area.

**Incompatible Materials:** Strong oxidizing agents, aluminum

### Specific end use(s)

Glycol inhibitor

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## SECTION 8: Exposure controls/personal protection

### 8.2 Appropriate engineering controls

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Use explosion-proof equipment. Proper grounding procedures to avoid static electricity should be followed. Use only outdoors or in well-ventilated area. Ensure all local, regional, national, and international regulations are being observed. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

### 8.3 Individual protection measures, such as personal protective equipment (PPE)

#### Eye/face protection

Chemical safety goggles. Insufficient ventilation: wear respiratory protection. Respiratory protection of the dependent type.

#### Skin protection

Wear protective gloves and clothing.

#### Respiratory protection

Use a NIOSH-approved Self-Containing Breathing Apparatus whenever exposure may exceed established Occupational Exposure Limits.

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### SECTION 9: Physical and chemical properties and safety characteristics

#### Basic physical and chemical properties

Physical state	Liquid
Appearance	Clear liquid
Color	Colorless
Odor	No odor
Odor threshold	N/A
Melting point/freezing point	N/A
Boiling point or initial boiling point and boiling range	106°C (223°F)
Flammability	N/A
Lower and upper explosion limit/flammability limit	N/A
Flash point	N/A
Explosive properties	N/A
Auto-ignition temperature	N/A
Decomposition temperature	N/A
Oxidizing properties	N/A
pH	9.0-11.0
Kinematic viscosity	N/A
Solubility	Soluble
Partition coefficient n-octanol/water (log value)	N/A
Vapor pressure	0.1 mmHg at 68°F (20°C)
Evaporation rate	N/A
Density and/or relative density	1.54 at 59°F (15°C)
Relative vapor density	N/A

#### Particle characteristics

N/A

#### Supplemental information regarding physical hazard classes

N/A

#### Further safety characteristics (supplemental)

N/A

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

No data available.

#### 10.2 Chemical stability

Stable under conditions of normal storage and use.

#### 10.3 Possibility of hazardous reactions

Will not occur.

#### 10.4 Conditions to avoid

None known.

#### 10.5 Incompatible materials

Strong oxidizing agents, aluminum.

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## 10.6 Hazardous decomposition products

Oxides of phosphorus and oxides of potassium.

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## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

Skin Corrosion/Irritation: Skin Irritation Category 2

Serious Eye Damage/Irritation: Eye Irritation Category 2A

STOT - SE: Single Target Organ Toxicity - Single Exposure Category 3 - Respiratory System

Route of Exposure: The most significant routes of overexposure for this product are by contact with the skin or eyes. The symptoms of overexposure are described in the following sections.

#### Skin corrosion/irritation

Exposure to skin may cause redness or irritation.

#### Serious eye damage/irritation

Can cause serious eye irritation.

#### Respiratory or skin sensitization

Dusts may cause upper respiratory tract irritation.

#### Germ cell mutagenicity

No information available.

#### Carcinogenicity

Ingredients within this product are not considered to be, nor suspected to be, cancer-causing agents.

#### Reproductive toxicity

No information available.

#### STOT-single exposure

May cause respiratory irritation.

#### STOT-repeated exposure

No data available.

#### Aspiration hazard

None

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## SECTION 12: Ecological information

### Toxicity

No specific data available on this product.

### Persistence and degradability

No specific data available on this product.

### Bioaccumulative potential

No specific data available on this product.

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### Mobility in soil

No specific data available on this product.

### Results of PBT and vPvB assessment

No specific data available on this product.

### Endocrine disrupting properties

No specific data available on this product.

### Other adverse effects

No specific data available on this product.

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## SECTION 13: Disposal considerations

### Disposal methods

#### Product disposal

Dispose of contents/container in accordance with local, regional, national, and international regulations. Do not pierce or burn, even after use.

#### Sewage disposal

Avoid release into the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

#### Other disposal recommendations

Container may remain hazardous when empty. Continue to observe all precautions. Do not puncture or incinerate container. Product should be fully characterized prior to disposal.

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## SECTION 14: Transport information

### DOT (US)

UN Number: UN3266

Class: 8

Packing Group: III

Proper Shipping Name: Corrosive liquid, basic, inorganic, n.o.s. (Dipotassium Phosphate)

Reportable quantity (RQ): None

Marine pollutant: The components of this product are not designated by the Department of Transportation to be Marine Pollutants (49 CFR 172.101, Appendix B).

### IMDG

UN Number: UN3266

Class: 8

Packing Group: III

EMS Number: N/A

Proper Shipping Name: Corrosive liquid, basic, inorganic, n.o.s.

IMO Information: This product is considered as dangerous goods.

### IATA

UN Number: UN3266

Class: 8

Packing Group: III



## Safety Data Sheet

Proper Shipping Name: Corrosive liquid, basic, inorganic, n.o.s.  
IATA Information: This product is considered as dangerous goods.

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### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations specific for the product in question

##### California Prop. 65 Components

None

##### Canadian Domestic Substances List (DSL)

Components are DSL listed. Phosphoric acid, dipotassium salt. CAS# 7758-11-4.

##### SARA 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act Components

None

##### SARA 311/312 Hazards

Acute Health Hazard

##### Toxic Substances Control Act (TSCA) Inventory

The components of this product are listed on the TSCA Inventory or are exempted from listing.

##### U.S. CERCLA Reportable Quantity (RQ)

None

##### HMIS Rating

Glycol Inhibitor	
HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	

##### NFPA Rating



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### SECTION 16: Other information

N/A = Not applicable; N/D = Not determined

## Safety Data Sheet

### 16.1 Further information/disclaimer

To the best of our knowledge, information contained herein is accurate. However there is no assumption of liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazard which exists. The information contained in this SDS was obtained from current and reliable sources; however, the data is provided without warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions of handling, storage and disposal of this product are beyond the control of the manufacturer, the manufacturer will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this SDS shall be created or inferred by any statement in this SDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product which may not be covered by this SDS. The user is responsible for full compliance.

### 16.2 Preparation information

Prepared by: Jessica Wilson  
Date prepared: 11/5/2024