



VAPCO PRODUCTS, INC.

Safety Data Sheet HPG Cleaner

SECTION 1: Identification

1.1 GHS Product identifier

Product name	HPG Cleaner
Product number	HPG-1Q
Brand	Vapco

1.3 Recommended use of the chemical and restrictions on use

Evaporator coil cleaner

1.4 Supplier's details

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

1.5 Emergency phone number

(800) 255-3924

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200, 2024)

- Acute toxicity, inhalation, Cat. 4
- Eye damage/irritation, Cat. 1
- Skin corrosion/irritation, Cat. 1B

2.2 GHS label elements, including precautionary statements

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Pictograms



Signal word

Danger

Hazard statement(s)

H314

Causes severe skin burns and eye damage

H332

Harmful if inhaled

Precautionary statement(s)

P260

Do not breathe 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.

P301+P330+P331

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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.

P310

Immediately call a POISON CENTER/doctor if exposed or concerned.

P312

Call a POISON CENTER/doctor if you feel unwell.

P321

Specific treatment (see First Aid on this label).

P363

Wash contaminated clothing before reuse.

P405

Store locked up.

P501

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

1. 2-Butoxyethanol

Concentration

1 - 10 % (weight)

EC no.

203-905-0

CAS no.

111-76-2

Index no.

603-014-00-0

2. Silicic acid (H₂SiO₃), disodium salt

Concentration

1 - 10 % (weight)

EC no.

229-912-9

CAS no.

6834-92-0

Index no.

014-010-00-8

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3. Pentasodium triphosphate

Concentration	1 - 10 % (weight)
EC no.	231-838-7
CAS no.	7758-29-4

4. Dodecylbenzenesulfonic acid, sodium salt

Concentration	0.1 - 1 % (weight)
CAS no.	68081-81-2

5. Sodium xylenesulfonate

Concentration	0.01 - 0.1 % (weight)
CAS no.	1300-72-7

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.
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.

4.2 Most important symptoms/effects, acute and delayed

Symptoms/Injuries: Harmful if inhaled. Causes serious eye and skin irritation.

Symptoms/Injuries After Skin Contact: Contact causes severe irritation with burns. Dermatitis may occur due to long-term irritation.

Symptoms/Injuries After Eye Contact: Contact causes severe irritation with redness and swelling of conjunctiva. Contact with gas/liquid escaping the container can cause permanent eye damage.

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

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand. Note to physician: The absence of visible signs or symptoms or burns does not reliably exclude the presence of actual tissue damage.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Water spray, fog, carbon dioxide (CO₂), alcohol-resistant foam, dry chemical, or sand. Use appropriate media for surrounding fire.

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5.2 Specific hazards arising from the chemical

Reactivity: May react with chemically active metals and acids.

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 (CO₂). 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: Carbon, sodium and silicon oxide(s).

Further information

Do not allow run-off from fire fighting to enter drains or water courses.

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 Non-Emergency Personnel

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

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

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.

6.2 Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

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).

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

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

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.

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. Do not expose to temperatures exceeding 50°C/122°F.

Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store locked up/in a secure area.

Incompatible Materials: Strong acids.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1. 2-Butoxyethanol (CAS: 111-76-2)

TWA (Inhalation): 20 ppm; 96.9 mg/m³; AU (AU/SWA)

Other advisory: Sk

STEL (Inhalation): 50 ppm; 242 mg/m³; AU (AU/SWA)

Other advisory: Sk

IOELV-LTEL (Inhalation): 98 mg/m³; EU (EU/OSHA)

Skin designation: Yes. List no. 1 under Council Directive 98/24/EC as amended. List last updated on 8/29/2023.

IOELV-LTEL (Inhalation): 20 ppm; EU (EU/OSHA)

Skin designation: Yes. List no. 1 under Council Directive 98/24/EC as amended. List last updated on 8/29/2023.

IOELV-STEL (Inhalation): 246 mg/m³; EU (EU/OSHA)

Skin designation: Yes. List no. 1 under Council Directive 98/24/EC as amended. List last updated on 8/29/2023.

IOELV-STEL (Inhalation): 50 ppm; EU (EU/OSHA)

Skin designation: Yes. List no. 1 under Council Directive 98/24/EC as amended. List last updated on 8/29/2023.

PEL (Inhalation): 50 ppm; US (US/OSHA)

OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 240 mg/m³; US (US/OSHA)

OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 20 ppm; US (Cal/OSHA)

OSHA Annotated Table Z-1, www.osha.gov

REL (Inhalation): 5 ppm; US (NIOSH)

OSHA Annotated Table Z-1, www.osha.gov

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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.

Body protection

Wear suitable protective clothing. Wear protective gloves. Chemical resistant materials and fabrics. Wear fire/flame resistant/retardant clothing.

Respiratory protection

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

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Liquid
Appearance	Clear liquid
Color	Blue
Odor	Bland odor
Odor threshold	N/D
Melting point/freezing point	<32°F (0°C)
Boiling point or initial boiling point and boiling range	>212°F (100°C)
Flammability	Not considered a flammable liquid by OSHA (29 CFR 1910.1200)
Lower and upper explosion limit/flammability limit	N/D
Flash point	N/D
Auto-ignition temperature	N/D
Decomposition temperature	N/D
pH	10.5-12.5
Kinematic viscosity	N/D
Solubility	Soluble in water
Partition coefficient n-octanol/water (log value)	N/D
Vapor pressure	23.8 mmHg at 77°F (25°C)
Evaporation rate	<0.8 (Slow)
Density and/or relative density	1.02 at 77°F (25°C)
Relative vapor density	1 (Air=1)

Supplemental information regarding physical hazard classes

Volatile Organic Compounds: 5%

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SECTION 10: Stability and reactivity

10.1 Reactivity

Chemically active metals and acids.

10.2 Chemical stability

Stable

10.3 Possibility of hazardous reactions

None known.

10.4 Conditions to avoid

Chlorine-liberating material. Do not mix with bases, ammonia, or other cleaning compounds.

10.5 Incompatible materials

Strong acids.

10.6 Hazardous decomposition products

Oxide(s) of carbon, sodium and silicon.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

2-Butoxyethanol

LD50 Oral - Rat - 880 mg/kg

LD50 Skin - Rabbit - 1060 mg/kg

LD50 Intraperitoneal - Rat - 220 mg/kg

LD50 Intravenous - Rat - 307 mg/kg

LD50 Oral - Rat - 470 mg/kg

LC50 Inhalation - Rat - 450 ppm

Dodecylbenzenesulfonic acid, sodium salt

LD50 Oral - Rat - 1090 mg/kg

Pentasodium triphosphate

LD50 Oral - Rat - >2000 mg/kg

LC50 Inhalation - Rat - >0.39 mg/l - 4 hrs

LD50 Skin - Rabbit - 4640 mg/kg

LD50 Oral - Rat - 3120 mg/kg

Sodium xylenesulfonate

LD50 Oral - Rat - >=7200 mg/kg

LD50 Oral - Rabbit - >2000 mg/kg

Skin corrosion/irritation

Causes severe burns, prolonged contact will destroy tissue.

Serious eye damage/irritation

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Causes severe burns, stinging, redness, swelling, and may cause corneal damage, blindness. Burning may not be immediately painful or visible.

Respiratory or skin sensitization

May cause irritation (possible severe), chemical burns, upper respiratory damage, and pulmonary edema.

Germ cell mutagenicity

Not classified.

Carcinogenicity

Not classified.

Reproductive toxicity

Not classified.

Specific target organ toxicity (STOT) - single exposure

Causes severe burns, prolonged contact will destroy tissue.

Specific target organ toxicity (STOT) - repeated exposure

Dermatitis may occur due to long-term irritation. Upper respiratory damage, chemical burns, and pulmonary edema. Potential loss of sight.

Aspiration hazard

The ATE (gas inhalation) of the mixture is: 7000 ppmV.

The ATE (vapor inhalation) of the mixture is: 30 mg/l.

The ATE (oral) of the mixture is: 5000 mg/kg bw.

Additional information

Symptoms/Injuries: Harmful if inhaled. Causes serious eye and skin irritation.

Symptoms/Injuries After Skin Contact: Contact causes severe irritation with burns. Dermatitis may occur due to long-term irritation.

Symptoms/Injuries After Eye Contact: Contact causes severe irritation with redness and swelling of conjunctiva. Contact with gas/liquid escaping the container can cause permanent eye damage.

SECTION 12: Ecological information

Toxicity

2-Butoxyethanol

LC50 - Oncorhynchus mykiss (rainbow trout) - 1474 mg/l - 96 hrs

EC50 - Daphnia magna (water flea) - 1550 mg/l - 48 hrs

EC50 - Pseudokirchneriella subcapitata (green algae) - 1840 mg/l - 72 hrs

LC50 - Daphnia magna (water flea) - 1550 mg/l - 48 hrs

LC50 - Pseudokirchneriella subcapitata (green algae) - 911 mg/l - 72 hrs

Pentasodium triphosphate

EC50 - Daphnia magna (water flea) - >100 mg/l - 48 hrs

EC50 - Daphnia magna (water flea) - 277 mg/l - 48 hrs

Persistence and degradability

Component(s) of this product are not biodegradable.

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Bioaccumulative potential

This product is not expected to bioaccumulate.

Mobility in soil

This product is mobile in soil.

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.

Waste treatment

RCRA Status: Product should be fully characterized prior to disposal (40 CFR 261).

Sewage disposal

Avoid release into the 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.

SECTION 14: Transport information

DOT (US)

UN Number: UN1719

Class: 8

Packing Group: III

Proper Shipping Name: Caustic alkali liquids, n.o.s.

IMDG

UN Number: UN1719

Class: 8

Packing Group: III

EMS Number: N/A

Proper Shipping Name: Caustic alkali liquids, n.o.s.

IATA

UN Number: UN1719

Class: 8

Packing Group: III

Proper Shipping Name: Caustic alkali liquids, n.o.s.

SECTION 15: Regulatory information

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

Massachusetts Right To Know Components (105 CMR 670)

Chemical name: 2-BUTOXYETHANOL

CAS number: 111-76-2

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Chemical name: SODIUM PHOSPHATE, TRIBASIC
CAS number: 7758-29-4

Massachusetts Toxic Use Reduction Act (TURA) list

Chemical name: Sodium tripolyphosphate (STPP)
CAS number: 7758-29-4

New Jersey Right To Know Components

Common name: 2-BUTOXY ETHANOL
CAS number: 111-76-2

Pennsylvania Right To Know Components

Chemical name: ETHANOL, 2-BUTOXY-
CAS number: 111-76-2

Chemical name: TRIPHOSPHORIC ACID, PENTASODIUM SALT
CAS number: 7758-29-4

US EPA TSCA public inventory

Chemical name: 2-Butoxyethanol
CAS number: 111-76-2

Chemical name: Silicic acid (H₂SiO₃), disodium salt
CAS number: 6834-92-0

Chemical name: Pentasodium triphosphate
CAS number: 7758-29-4

Chemical name: Dodecylbenzenesulfonic acid, sodium salt
CAS number: 68081-81-2

Chemical name: Sodium xylenesulfonate
CAS number: 1300-72-7

SECTION 16: Other information

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

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.

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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: 3/18/2025

