



VAPCO PRODUCTS, INC.

## Safety Data Sheet High Tech Acid

### SECTION 1: Identification

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#### GHS Product identifier

Product name	High Tech Acid
Product number	HTAC-1
Brand	Vapco

**Recommended use of the chemical and restrictions on use**  
Acid-based Condenser Coil Cleaner

#### 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

#### Emergency phone number

(800) 255-3924

### SECTION 2: Hazard identification

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#### Classification of the substance or mixture

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

- Acute toxicity, dermal, Cat. 1
- Acute toxicity, inhalation, Cat. 2
- Acute toxicity, oral, Cat. 2
- Eye damage/irritation, Cat. 1
- Corrosive to metals, Cat. 1
- Skin corrosion/irritation, Cat. 1

# Safety Data Sheet

## GHS label elements, including precautionary statements

### Pictogram



### Signal word

**Danger**

### Hazard statement(s)

H290 May be corrosive to metals  
H300 Fatal if swallowed  
H314 Causes severe skin burns and eye damage  
H331 Toxic if inhaled

### Precautionary statement(s)

P234 Keep only in original container.  
P260 Do not breathe dust/fume/gas/mist/vapors/spray.  
P262 Do not get in eyes, on skin, or on clothing.  
P264 Wash hands and other exposed areas thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P284 In case of inadequate ventilation wear respiratory protection.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P302+P352 IF ON SKIN: Wash with plenty of water and immediately seek medical attention.  
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.  
P320 Specific treatment is urgent (see First Aid on this label).  
P361+P364 Take off immediately all 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 to the specifications of local, regional, national, and international regulations.

### Statement regarding ingredients of unknown toxicity

This product contains the following percentage of chemicals of unknown toxicity: 1%.

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## SECTION 3: Composition/information on ingredients

### Mixtures

### Hazardous components

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### 1. Hydrofluoric acid (conc. less than 50%)

Concentration	8 - 10 % (weight)
EC no.	231-634-8
CAS no.	7664-39-3
Index no.	009-003-00-1

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## SECTION 4: First-aid measures

### 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.

### 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 on conjunctiva. Contact with gas/liquid escaping the container can cause permanent eye damage.

**Chronic Health Hazards:** Possible liver, kidney, blood damage, dental or skeletal fluorosis.

### 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 of burns does not reliably exclude the presence of actual tissue damage.

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## SECTION 5: Fire-fighting measures

### Suitable extinguishing media

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

### Specific hazards arising from the chemical

**Reactivity:** May be corrosive to metals and reactive to strong bases. Increased risk of fire or explosion.

### Special protective actions for fire-fighters

**Precautionary Measures Fire:** 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

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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 oxides and acid mist.

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### SECTION 6: Accidental release measures

#### 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 source 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.

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

**For Containment:** Ventilate area. Contain any spills with dikes or absorbents to prevent further migration and entry into sewers or streams. Dilute spill with large quantities of water and then neutralize with a dilute base. Flush area with water until clean. 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. Dilute spill with large quantities of water and then neutralize with a dilute base. Flush area with water until clean. 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. Check the pH of the waste to be disposed: may be subjected to disposal regulations: U.S. EPA 40 CFR 261. Hazardous waste number(s): D002.

#### 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

#### Precautions for safe handling

**Additional Hazards When Processed:** Do not pressurize, cut, or weld containers. Ruptured cylinders may rocket. Pressurized container: May burst if heated. 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 area.

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

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

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**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 alkalis, strong oxidizing agents.

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## SECTION 8: Exposure controls/personal protection

### Control parameters

#### CAS: 7664-39-3

Hydrofluoric acid (conc. less than 50%)

Cal/OSHA: See Annotated Z-2 PEL inhalation; NIOSH: See Annotated Z-2 REL inhalation; OSHA: See Annotated Z-2 ppm PEL inhalation; See Annotated Z-2 mg/m<sup>3</sup> PEL inhalation

### 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 observed. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

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

#### Pictograms



#### 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.

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

### Basic physical and chemical properties

Physical state	Liquid
Appearance	Cloudy to Clear Pink Liquid
Color	Pink
Odor	Acid odor
Odor threshold	N/D
Melting point/freezing point	< 32°F (0°C)

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Boiling point or initial boiling point and boiling range  
Flammability

N/D  
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

1

Kinematic viscosity

N/D

Solubility

Completely 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)

### Particle characteristics

Volatile Organic Compounds: <1%

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## SECTION 10: Stability and reactivity

### Reactivity

May react with strong bases and chemically active metals.

### Chemical stability

Stable under normal conditions of use.

### Possibility of hazardous reactions

None known.

### Conditions to avoid

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

### Incompatible materials

Strong alkalis, strong oxidizing agents.

### Hazardous decomposition products

Carbon oxides and acid mist.

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## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

The ATE (dermal) of the mixture is: 50 mg/kg bw

The ATE (dusts-mists inhalation) of the mixture is: 0.5 mg/l

The ATE (gas inhalation) of the mixture is: 1000 ppmV

The ATE (oral) of the mixture is: 50 mg/kg bw

The ATE (dusts-mists inhalation) of the mixture is: 0.5 mg/l

The ATE (dusts-mists inhalation) of the mixture is: 0.5 mg/l

#### Skin corrosion/irritation

Causes severe burns, prolonged contact will destroy tissue.

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### Serious eye damage/irritation

Causes severe burns, irritation, redness, tearing, pain, and may result in loss of sight.

### 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.

### STOT-single exposure

Causes severe burns, prolonged contact will destroy tissue.

### STOT-repeated exposure

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

### Aspiration hazard

Not classified.

### Additional information

**Medical Condition Aggravated:** Pre-existing disorders of the skin, respiratory system, and eyes will be aggravated by over-exposure.

**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 on conjunctiva. Contact with gas/liquid escaping the container can cause permanent eye damage.

**Chronic Health Hazards:** Possible liver, kidney, blood damage, dental or skeletal fluorosis.

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## SECTION 12: Ecological information

### Persistence and degradability

This product is biodegradable.

### Bioaccumulative potential

This product is not expected to bioaccumulate.

### Mobility in soil

This product is mobile in soil.

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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.

#### Waste treatment

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Check the pH of the waste to be disposed. May be subjected to disposal regulations: U.S. EPA 40 CFR 261.  
Hazardous waste number(s): D002.

### Sewage disposal

Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

### Other disposal recommendations

Container may remain hazardous when empty. Continue to observe all precautions. Do not puncture or incinerate container.

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## SECTION 14: Transport information

### DOT (US)

UN Number: UN1760  
Class: 8  
Packing Group: II  
Proper Shipping Name: Corrosive liquids, n.o.s.

### IMDG

UN Number: UN1760  
Class: 8  
Packing Group: II  
Proper Shipping Name: Corrosive liquids, n.o.s.

### IATA

UN Number: UN1760  
Class: 8  
Packing Group: II  
Proper Shipping Name: Corrosive liquids, n.o.s.

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## SECTION 15: Regulatory information

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

#### Canadian Domestic Substances List (DSL)

Chemical name: Hydrofluoric acid  
CAS: 7664-39-3

#### CERCLA (Comprehensive Response Compensation, and Liability Act)

Hydrofluoric Acid (7664-39-3) Reportable Quantity = 100 lbs

#### Massachusetts Right To Know Components

Chemical name: Hydrofluoric acid  
CAS number: 7664-39-3

#### New Jersey Right To Know Components

Common name: HYDROGEN FLUORIDE  
CAS number: 7664-39-3

#### Pennsylvania Right To Know Components

Chemical name: Hydrofluoric acid  
CAS number: 7664-39-3



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## Toxic Substances Control Act (TSCA) Inventory

All chemicals are listed or exempt.

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## SECTION 16: Other information

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

### 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.

### Preparation information

Prepared by: Jessica Wilson

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