



## VAPCO PRODUCTS, INC.

### Safety Data Sheet High Tech Evap

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#### SECTION 1: Identification

##### 1.1 GHS Product identifier

|                |                |
|----------------|----------------|
| Product name   | High Tech Evap |
| Product number | HTEC-1, HTEC-5 |
| Brand          | Vapco          |

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

Non-foaming, detergent multi-purpose coil cleaner

##### 1.4 Supplier's details

|           |                                                                   |
|-----------|-------------------------------------------------------------------|
| Name      | Vapco Products, Inc.                                              |
| Address   | 401 Marshall Road<br>Valley Park, Missouri 63088<br>United States |
| 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

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

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

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

##### 2.2 GHS label elements, including precautionary statements

# Safety Data Sheet High Tech Evap

## 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 and other exposed areas 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. Pentasodium triphosphate

Concentration

1 - 10 % (weight)

EC no.

231-838-7

CAS no.

7758-29-4

##### 3. Dodecylbenzenesulfonic acid, sodium salt

Concentration

0.1 - 1 % (weight)

CAS no.

68081-81-2

## Safety Data Sheet High Tech Evap

### 4. Potassium Hydroxide

|               |                    |
|---------------|--------------------|
| Concentration | 0.1 - 1 % (weight) |
| EC no.        | 215-181-3          |
| CAS no.       | 1310-58-3          |
| Index no.     | 019-002-00-8       |

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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. |
| 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. May cause respiratory 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 of burns does not reliably exclude the presence of actual tissue damage.

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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

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

**Further information**

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

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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 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.

### 6.3 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. 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 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.

## Safety Data Sheet High Tech Evap

**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 EC: 203-905-0)

PEL-C (Inhalation): 20 ppm, 97 mg/m<sup>3</sup>

TLV® (Inhalation): 20 ppm; USA (ACGIH)

TWA (Inhalation): 20 ppm; USA (ACGIH)

PEL-C (Inhalation): 20 ppm (Cal/OSHA)

REL-C (Inhalation): 5 ppm (NIOSH)

TWA (Inhalation): 5 ppm, 24 mg/m<sup>3</sup> (NIOSH)

PEL-C (Inhalation): 50 ppm (US/OSHA)

PEL-C (Inhalation): 240 mg/m<sup>3</sup> (US/OSHA)

TWA (Inhalation): 50 ppm, 240 mg/m<sup>3</sup> (US/OSHA)

TWA (Inhalation): 20 ppm; 96.9 mg/m<sup>3</sup>; AU (AU/SWA)

Other advisory: Sk

STEL (Inhalation): 50 ppm; 242 mg/m<sup>3</sup>; AU (AU/SWA)

Other advisory: Sk

IOELV-LTEL (Inhalation): 98 mg/m<sup>3</sup>; 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/m<sup>3</sup>; 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](http://www.osha.gov)

PEL (Inhalation): 240 mg/m<sup>3</sup>; US (US/OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

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

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

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

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

##### 2. Potassium hydroxide (CAS: 1310-58-3)

TWA (Inhalation): 2 Peak limitation mg/m<sup>3</sup>; AU (AU/SWA)

#### 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

## Safety Data Sheet High Tech Evap

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.

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## SECTION 9: Physical and chemical properties

### Basic physical and chemical properties

|                                                          |                                                                    |
|----------------------------------------------------------|--------------------------------------------------------------------|
| Physical state                                           | Liquid                                                             |
| Appearance                                               | Clear liquid                                                       |
| Color                                                    | Green                                                              |
| 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 to be 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                                                       | 12-13                                                              |
| 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                                 | N/A                                                                |

### Supplemental information regarding physical hazard classes

N/A

### Further safety characteristics (supplemental)

Volatile Organic Compounds: <4%

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Chemically active metals and strong acids.

### 10.2 Chemical stability

Stable under normal conditions of use.

### 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.

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## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

2-Butoxyethanol

LD50 Oral - Rat - 880 mg/kg

LD50 Skin - Rabbit - 1,060 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

#### Skin corrosion/irritation

Causes severe burns, prolonged contact will destroy tissues.

#### Serious eye damage/irritation

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: 4545.45 mg/kg bw.

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**SECTION 12: Ecological information**

**Persistence and degradability**

Component or components of this product are not 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**

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

**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: 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.



## Safety Data Sheet High Tech Evap

### IATA

UN Number: UN1719

Class: 8

Packing Group: III

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

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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

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

#### Massachusetts Right To Know Components (105 CMR 670)

Chemical name: 2-BUTOXYETHANOL

CAS number: 111-76-2

Chemical name: POTASSIUM HYDROXIDE

CAS number: 1310-58-3

Chemical name: SODIUM PHOSPHATE, TRIBASIC

CAS number: 7758-29-4

#### Massachusetts Toxic Use Reduction Act (TURA) list

Chemical name: Potassium hydroxide

CAS number: 1310-58-3

Chemical name: Sodium tripolyphosphate (STPP)

CAS number: 7758-29-4

#### New Jersey Right To Know Components

Chemical Name: Sodium phosphate, tribasic

CAS No. 7758-29-4

Chemical Name: Ethylene glycol monobutyl ether

CAS No. 111-76-2

Common name: 2-BUTOXY ETHANOL

CAS number: 111-76-2

Common name: POTASSIUM HYDROXIDE

CAS number: 1310-58-3

#### Pennsylvania Right To Know Components

Chemical Name: Sodium phosphate, tribasic

CAS No. 7758-29-4

Chemical Name: Ethylene glycol monobutyl ether

CAS No. 111-76-2

Chemical name: ETHANOL, 2-BUTOXY-

CAS number: 111-76-2

## Safety Data Sheet High Tech Evap

Chemical name: POTASSIUM HYDROXIDE (K(OH))  
CAS number: 1310-58-3

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

### SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

### SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313: Ethylene glycol monobutyl ether  
CAS No. 111-76-2

### US EPA TSCA public inventory

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

Chemical name: Potassium Hydroxide  
CAS number: 1310-58-3

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

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

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## 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. 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: 2-19-2025