

# MATERIAL SAFETY DATA SHEET

## SECTION I - PRODUCT IDENTIFICATION

**Product Identifier:** Vapro Cu-Tech  
**Other means of identification:** Corrosion Inhibitor for Copper  
**Recommended use:** Copper corrosion protection  
**Supplier's Name:** Magna Chemical Canada Inc.  
**Address:** 1450 Government Road West, Kirkland Lake ON P2N 2E9  
**Phone:** 705 642 3352 or 416 479 9151  
**Emergency only:** Canutec 24hr Tel: 613 996 6666  
**Revision Date:** 15 January 2019

## SECTION II – HAZARDS IDENTIFICATION

### GHS CLASSIFICATION:

Flammable Liquid: Category 2

### GHS LABEL ELEMENTS SYMBOL(S)



### SIGNAL WORDS:

Danger

### GHS HAZARDS STATEMENTS:

H225: Highly flammable liquid and vapour

### GHS PRECAUTIONARY STATEMENTS:

#### PREVENTION

P210: Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

P233: Keep container tightly closed.

P240: Ground/bond container and receiving equipment.

P241: Use explosion-proof electrical/ventilating/lighting equipment.

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

#### RESPONSE:

P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P370 + P378: In case of fire: Use carbon dioxide, or Dry chemical powder, or water spray for extinction.

#### STORAGE:

P403 + P235: Store in a well-ventilated place. Keep cool.

## SECTION III – COMPOSITION / INFORMATION ON INGREDIENTS

<u>Ingredient Name:</u>	<u>Weight %:</u>	<u>TLV</u>	<u>CAS#</u>
Proprietary mixture of amine compound	1-10	N/E	N/E
Denature Alcohol	Balance	1000 ppm	Mixture

## SECTION IV – FIRST AID MEASURES

### **Inhalation**

If a person breathes large amounts of this chemical, move the exposed person to fresh air at once. Other measures are usually unnecessary.

### **Skin Contact**

Remove contaminated clothing. Wash affected area with water. If irritation persists, call physician.

### **Eye Contact**

If this chemical contact the eyes, immediately wash (irrigate) the eyes with large amounts of water, occasionally lifting the lower and upper lids. Get medical attention immediately.

### **Ingestion**

DO NOT INDUCE VOMITING. Get immediate medical attention.

## SECTION V – FIRE FIGHTING MEASURES

### **Suitable Fire-extinguishing media**

Carbon dioxide, Foam (alcohol-resistant foam) and powder are effective fire-extinguishing agents.

### **Specific hazards arising from the chemical**

Toxic gases and vapours; oxides of carbon are generated.

### **Special protective actions for fire fighters**

Firemen should wear self-contained breathing apparatus and protective clothing when fighting chemical fires.

## SECTION VI – ACCIDENTAL RELEASE MEASURES

### **Personal Precautions, Protective Equipment and Emergency Procedures**

Avoid contact with spilled or released material. Immediately remove all contaminated clothing. For guidance of selection of personal protective equipments see Chapter 8 of this Safety Data Sheet.

### **Environmental Precautions**

Prevent spills from entering drains or sewers and contact with soil.

### **Methods and materials for contaminated and cleaning up**

For small spills, carefully flush with water. For large spills, contain spills. Do not touch or walk through spilled material. Dike ahead of large spills to prevent run-off. Mop, pump or absorb onto suitable absorbent and place in container for reuse, recycle or proper disposal. Flush area with water to eliminate residues.

## SECTION VII – HANDLING AND STORAGE

### **Precautions for safe handling**

Do not swallow. Avoid eyes and skin contact. Wear recommended protective equipment. Use only with adequate ventilation. Wash thoroughly after handling material.

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

Keep container tightly closed when not in use. Store in dry, cool, well-ventilated area away from incompatibles.

## SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Occupational Exposure Limits:**

#### **Denature Alcohol**

NIOSH REL: 1900 mg/m<sup>3</sup>

OSHA PEL TWA 1900 mg/m<sup>3</sup>

### **Appropriate engineering control measure**

Under normal applications, general ventilation is adequate.

### **Individual protection measure**

#### **Protective Gloves**

Neoprene/ PVC gloves.

#### **Eye Protection**

Safety glasses with side shields are recommended.

#### **Respiratory Protection**

Not required under normal use conditions with good general ventilation. Protect against generated mist/ spray back.

### Hygienic Work Practices

Wash hand after use. Do not eat, drink or smoke in immediate area.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES	
<b>Appearance Physical State</b>	Liquid
<b>Color</b>	Clear to yellow
<b>Odour</b>	Bland
<b>Odour Threshold</b>	Not applicable
<b>pH</b>	7±0.5
<b>Melting Point</b>	Not applicable
<b>Freezing Point</b>	-114.1°C (Ethyl alcohol)
<b>Boiling Point</b>	78.5°C (Ethyl alcohol)
<b>Flash Point</b>	13°C
<b>Evaporation Rate (Butyl Acetate = 1)</b>	2
<b>Flammability (solid, gas)</b>	Not applicable
<b>Upper explosive limit</b>	19%
<b>Lower explosive limit</b>	3.3%
<b>Vapour Pressure</b>	44 mm Hg
<b>Vapour Density</b>	1.59 (Air =1)
<b>Relative Density</b>	0.08 g/cm <sup>3</sup> ± 0.025
<b>Solubility</b>	Completely soluble in water
<b>Partition coefficient: n-octanol/water</b>	Not applicable
<b>Viscosity</b>	Free Flowing Liquid
<b>Auto-ignition Temperature</b>	365 °C

### SECTION X – STABILITY & REACTIVITY

#### Reactivity/Incompatible materials

React with oxidizing materials.

#### Chemical stability

Stable under normal temperature and pressure.

#### Possible of hazardous reaction

Data not available.

#### Conditions to avoid

Heat, contact with incompatible materials, open flame.

#### Hazardous decomposition products

Burning may produce oxide of carbons and other substances.

### SECTION XI – TOXICOLOGICAL INFORMATION

Denature Alcohol      Oral LD 50: 6200-17800 mg/kg (Rat)  
    Dermal: >20,000gm / kg (Rabbit)  
    Inhalation: >8000 mg/litre/4h (Rat)

#### PRIMARY ROUTES OF EXPOSURE

☒ eye      ☒ skin      ☒ oral      ☐ inhalation      ☐ other

**Eyes:** May injure tissue; moderately irritating causing redness.

**Skin:** Unlikely to cause appreciable irritation even on repeated contact. Unlikely to be absorbed in harmful amounts.

**Inhalation:** Moderately irritating to Respiratory tract and mucous membranes. Chronic exposure to the vapour may result in headache and symptoms of central nervous depression. Nasal and eye irritation well below the TLV.

**Ingestion:** Headache, dizziness, dullness, gastric disorders and symptoms of nervous system depression.

Long-term toxicity: None of the components are listed as CMR\* (\*Carcinogenic, mutagenic or reproductive toxin).

## SECTION XII – ECOLOGICAL INFORMATION

**Eco-toxicity:** There is no data available on the product itself.

**Mobility:** The product should not be allowed to enter drains or watercourses or be deposited where it can affect ground or surface waters. Avoid transfer into the environment.

**Persistence and Degradability:** There is no persistence or degradation data for any component of this product at this time.

**Bio-accumulative Potential:** Not expected to bio-accumulate.

## SECTION XIII – DISPOSAL

Dispose of in accordance with existing Federal, State and local environmental regulation.

## SECTION XIV – TRANSPORT INFORMATION

### Road and Rail:

UN-No.: UN1170

Dangerous Goods Class: 3 Flammable Liquid

Hazchem Code: 2[Y]E

Packing Group: II

### Marine:

UN-No.: UN1170

Class: 3 Flammable Liquid

Packing Group: II

### Air Transport

UN-No.: UN1170

Class: 3 Flammable Liquid

Packing Group: II

## SECTION XV – REGULATORY INFORMATION

No information available for this product.

## SECTION XVI – OTHER INFORMATION

**H.M.I.S rating:** Health - 2, Fire - 0, Reactivity - 1, Protection - B

Where

0 = Insignificant

1 = Slight

2 = Moderate

3 = Serious

4 = Severe

A = Safety Glass

B = Safety Glass & Gloves

C = Safety Glass, Gloves & Apron

D = Face Shield, Gloves & Apron

Replace edition of: 10 March 2016

**H.M.I.S:** Hazardous Materials Identification System

**CAS#:** Chemical Abstracts Service Number

**ACGIH:** American Conference of Governmental Industrial Hygienists

**OSHA:** Occupational Safety and Health Administration

**TLV:** Threshold Limit Value

**PEL:** Permissible Exposure Limit

**TWA8:** The time weighted average concentration for a normal 8-hour workday and a 40-hour workweek, to which nearly all workers may be repeatedly exposed, day after day, without adverse effect.

**N.A:** Not applicable

**N/E:** Not establish

**N.D:** Not determine

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