

# HPI VCI - Vapor Corrosion Inhibitor

## Safety Data Sheet C001015

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Issue date: 07/07/2020

Version: 1.0

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product name : HPI VCI - Vapor Corrosion Inhibitor  
Product code : C001015-000-CUD

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Industrial use

#### 1.3. Supplier

HPI Processes Inc  
1030 Revenue Drive  
Telford, PA 18969 - USA  
T 215-799-0450

#### 1.4. Emergency telephone number

Emergency number : 800-535-5053

### SECTION 2: Hazard(s) identification

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

##### GHS US classification

Health, Acute Toxicity, 5 Dermal

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labeling

GHS Signal Word: Warning H313 - May be harmful in contact with skin. P312-Call a Poison Center or Doctor/Physician if you feel unwell.

#### 2.3. Other hazards which do not result in classification

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Morpholine CAS 110-91-8 10%

#### 3.2. Mixtures

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of HazCom 2012

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).  
First-aid measures after inhalation : If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention.  
First-aid measures after skin contact : Wash with soap and water. If irritation persists consult medical personnel.  
First-aid measures after eye contact : Immediately flush eyes with large amounts of water for at least 15 minutes, lifting eyelids occasionally to facilitate irrigation. Get immediate medical attention.  
First-aid measures after ingestion : If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. If injured party is conscious, give two glasses of water. Seek medical attention.

#### 4.2. Most important symptoms and effects (acute and delayed)

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

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Symptoms/effects after skin contact : Irritation.  
Symptoms/effects after eye contact : Eye irritation.

### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Use any standard agent-choose the one most appropriate for type of surrounding fire.

### 5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Use any standard agent-choose the one most appropriate for type of surrounding fire.

Protection during firefighting : Wear self-contained breathing apparatus and other protective equipment.

Flash Point : >212 F Closed cup.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Keep all unnecessary personnel away. Spill area may be slippery.

#### 6.1.2. For emergency responders

Protective equipment : Response team must use protective clothing to prevent body contact.

Emergency procedures : Pick up excess with inert absorbent material and place in separate waste container. Ventilate area and wash spill site after material pick up is complete. Allow floor to dry before allowing traffic.

### 6.2. Environmental precautions

Consult expert on disposal of recovered material and ensure conformity to local disposal regulations.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Pick up excess with inert absorbent material and place in separate waste container.

Other information : Consult expert on disposal of recovered material and ensure conformity to local disposal regulations.

### 6.4. Reference to other sections

For further information refer to section 8 and 13. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Do not get in eyes, on skin or on clothing. Do not breathe vapor. Keep container closed. Properly clean up spills.

Hygiene measures : Wash thoroughly after handling.

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

Storage conditions : Store out of reach of children. Keep container closed. Store in a cool, well-ventilated place.

Incompatible products : Strong oxidizing or acidic materials.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

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No additional information available

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### 8.2. Appropriate engineering controls

Appropriate engineering controls : Normal room ventilation satisfactor for limited use.

### 8.3. Individual protection measures/Personal protective equipment

**Personal protective equipment:** HMIS PP, B -

Safety galseses, gloves

**Hand protection:**

Protective gloves. Wear protective gloves.

**Eye protection:**

Safety glasses. Chemical goggles or safety glasses

**Skin and body protection:**

Wear suitable protective clothing

**Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment. Wear appropriate mask

**Personal protective equipment symbol(s):**



**Other information:**

Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Clear, colorless liquid.
Color	: Colorless
Odor	: Solvent-like odour
Odor threshold	: No data available
pH	: 10.22
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 212 °F Closed Cup
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable. Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 8.58 lb/gal
Solubility	: Soluble
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

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### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

### 10.2. Chemical stability

This product is stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Extreme high heat.

### 10.5. Incompatible materials

Strong oxidizing and/or reducing agents.

### 10.6. Hazardous decomposition products

Exposure to fire may liberate Carbon dioxide, Carbon monoxide, organic acids or other unidentified decomposition products from this product or packaging.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: LD50 525 mg/kg - Mouse
Acute toxicity (dermal)	: Not classified.
Acute toxicity (inhalation)	: LC50 8000ppm/8H - Rat
Skin corrosion/irritation	: Moderate - Rabbit pH: 10.22
Serious eye damage/irritation	: Severe - Rabbit pH: 10.22
Respiratory or skin sensitization	: Not considered an occupational sensitizer.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: Eye irritation.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general	: Based on available information, this material is not expected to produce any significant environmental effects when recommended use instructions are followed.
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### 12.2. Persistence and degradability

#### HPI VCI - Vapor Corrosion Inhibitor

Persistence and degradability	Not established.
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### 12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.
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### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Other information

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Product/Packaging disposal recommendations : Consult with the disposal agency and the relevant authorities. Empty containers may be cleaned with water.

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT

Not regulated

## SECTION 15: Regulatory information

### National

No additional information available

### 15.2. International regulations

#### Canada:

No additional information available

#### National regulations

No additional information available

### 15.3. US State regulations

## SECTION 16: Other information

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Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

SDS US (GHS HazCom 2012)

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*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*