

## Vapor Corrosion Inhibitor

MSDS Number: C905705

Revision Date: January 11, 2010

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### 1 PRODUCT AND COMPANY IDENTIFICATION

#### Manufacturer

Kärcher North America, Inc.

325 S Price Road  
Chandler, AZ 85224

#### Contact:

**Telephone Number:** 360-833-1600

**FAX Number:** 360-833-9200

**E-Mail:** info@karcherna.com

**Web** www.karcher.com

**Product Name:** Vapor Corrosion Inhibitor

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For Chemical Emergency, Spill, Leak, Fire, Exposure Call:  
CHEMTREC 1-800-424-9300, Outside US Call 1-703-527-3887

For Medical Emergency Call ROCKY MOUNTAIN POISON CENTER: 1-303-623-5716

### 2 HAZARDS IDENTIFICATION

**Route of Entry:** Eyes, Skin, Inhalation; Ingestion;

**Target Organs:** Eyes; Skin; Respiratory system; Gastrointestinal system

**Inhalation:** Minimal respiratory tract irritation may occur with exposure to a large amount of material

**Skin Contact:** May cause irritation.

**Eye Contact:** May cause irritation.

**Ingestion:** Ingestion is not applicable route of entry for intended use.

HMIS II-ratings (scale 0-4): Health = 2, Fire = 0, Reactivity = 0

HMIS Rating H2/F0/PH0®

NFPA-ratings (scale 0-4): Health = 2, Fire = 0, Reactivity = 0

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Cas #	Perc.	Chemical Name
110918	8-11%	Morpholine

OSHA Regulatory Status:

This MSDS contains valuable information critical to the safe handling and proper use of this product. This MSDS should be retained and available for employees and other users of this product.

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### 4 FIRST AID MEASURES

**Inhalation:** If symptoms develop, move victim to fresh air; if symptoms persist, obtain medical attention.  
**Skin Contact:** Wash with soap and water. If irritation persists consult medical personnel.  
**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.  
**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.

### 5 FIRE FIGHTING MEASURES

**Flash Point:** >212°F  
**Flash Point Method:** Closed Cup

Wear self-contained breathing apparatus and other protective clothing. Use any standard agent - choose the one most appropriate for type of surrounding fire.

### 6 ACCIDENTAL RELEASE MEASURES

Response team must use protective clothing to prevent body contact. Keep all unnecessary personnel away. Spill area may be slippery. Pick up excess with inert absorbent material and place into separate waste container. Ventilate area and wash spill site after material pickup is complete, allow floor to dry before allowing traffic. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

### 7 HANDLING AND STORAGE

**Handling Precautions:** Do not get in eyes, on skin, or on clothing. Do not breathe vapor. Keep container closed. Promptly clean up spills. Wash thoroughly after handling.  
**Storage Requirements:** Store out of reach of children; keep container closed; store in a cool well-ventilated place away from strong oxidizing or acidic materials.

### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:** Normal room ventilation is satisfactory for limited use.  
**Protective Equipment:** HMIS PP, B | Safety glasses, Gloves  
**Exposure Guidelines/Other:** Morpholine 110-91-8 OSHA PEL 20 ppm/ 70 mg/m3

### 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Clear Colorless	<b>Boiling Point:</b>	N/D
<b>Physical State:</b>	Liquid	<b>Freezing/Melting Pt.:</b>	N/D
<b>Odor:</b>	Solvent	<b>Solubility:</b>	Soluble
<b>pH:</b>	10.22	<b>Spec Grav./Density:</b>	8.58 lb/gal
<b>Vapor Pressure:</b>	N/D		
<b>Vapor Density:</b>	N/D		

**VOC:** 0 %

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### 10 STABILITY AND REACTIVITY

<b>Stability:</b>	Product is stable under normal conditions.
<b>Conditions to avoid:</b>	Extreme high heat
<b>Materials to avoid (incompatibility):</b>	Strong oxidizing and/or reducing agents.
<b>Hazardous Decomposition products:</b>	Exposure to fire may liberate carbon dioxide, carbon monoxide, organic acids, and other unidentified thermal decomposition products from this product or its packaging.
<b>Hazardous Polymerization:</b>	Will not occur.

### 11 TOXICOLOGICAL INFORMATION

#### Toxicity Data:

Morpholine 110-91-8

Oral ( LD 50): 525 mg/kg - Mouse

Inhalation ( LC 50): 8000 ppm/8H - Rat

Skin irritation: Moderate - Rabbit

Eye irritation: Severe - Rabbit

Sensitization: Not considered an occupational sensitizer

### 12 ECOLOGICAL INFORMATION

Refer to Section 6 for information regarding accidental releases and Section 15 for regulatory reporting information.

### 13 DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations.

### 14 TRANSPORT INFORMATION

DOT Class: Not regulated #

Non-hazardous for air, sea and road freight.

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### 15 REGULATORY INFORMATION

COMPONENT / (CAS/PERC) / CODES

\*Morpholine (110918 8-11%) MASS, OSHAWAC, PA, TSCA, TXAIR, WHMIS 1%

REGULATORY KEY DESCRIPTIONS

All components are listed on TSCA

MASS = MA Massachusetts Hazardous Substances List

OSHA WAC = OSHA Workplace Air Contaminants

PA = PA Right-To-Know List of Hazardous Substances

TXAIR = TX Air Contaminants with Health Effects Screening Level

WHMIS = Workforce Hazardous Material Information System

### 16 OTHER INFORMATION

This document is prepared in accordance with 29 CFR 1910.1200. The purpose of this section is to ensure that the hazards of all chemicals produced or imported are evaluated, and that information concerning their hazards is transmitted to employers and employees.

All information appearing herein is based upon data obtained from the raw material manufacturer and/or recognized technical sources. While the information above is believed to be true and accurate, the author makes no representations as to its accuracy or sufficiency. Conditions of use are beyond the manufacturer's control; therefore the users are responsible to verify this data under their own particular conditions, applications and regulations to determine if the product is suitable for their particular purposes. The users assume all risks of product use, handling, disposal, reliance upon, publication or use of the information contained herein. This information applies only to the product designated above and does not necessarily apply to its use in combination with other materials, products, chemical compounds, structures or processes.

Prepared by: EHS Manager

**END OF MSDS DOCUMENT**