

# MSDS Material Safety Data Sheet

Karcher



## RM 110 Scale Inhibitor Liquid Mix Kit Concentrate

MSDS Number: K556010

Revision Date: January 15, 2013

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### 1 PRODUCT AND COMPANY IDENTIFICATION

#### Manufacturer

Kärcher North America, Inc.  
325 S Price Road  
Chandler, AZ 85224

Phone: 360-833-1600  
Fax: 360-833-9200  
Email: info@karcherna.com  
Web: www.karcher.com

Product Name: RM 110 Scale Inhibitor Liquid Mix Kit Concentrate  
Revision Date: January 15, 2013  
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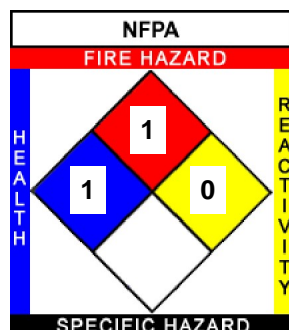
For Chemical Emergency, Spill, Leak, Fire, Exposure Call:  
Emergency Telephone: (800) 535-5053 [Infotrac]

### 2 HAZARDS IDENTIFICATION
















































Route of Entry: Eyes, Skin, Inhalation:  
Target Organs: Eyes; Skin; Respiratory system;  
Inhalation: Minimal respiratory tract irritation is expected when product is used according to label instructions.  
Skin Contact: May Cause Irritation.  
Eye Contact: May cause irritation.  
Ingestion: Ingestion is not applicable route of entry for intended use.

NFPA:  
HMIS III:

Health = 1, Fire = 1, Reactivity = 0  
H1/F1/PH0



HMIS III	
HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARDS	0
PERSONAL PROTECTION B   Safety Glasses, Gloves	

PERSONAL PROTECTION INDEX															
A					G	 +  + 									
B	 + 				H	 +  +  + 									
C	 +  + 				I	 +  + 									
D	 +  + 				J	 +  +  + 									
E	 +  +  + 				K	 +  +  + 									
F	 +  +  + 				X	Consult your supervisor or S.O.P. for "SPECIAL" handling directions									
A		n		o		p		q		r		s			
Safety Glasses														Additional Information	
t		u		w		y		z							
Quilt Respirator														Airline Hood	

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### 3 HAZARDS IDENTIFICATION

#### Ingredients:

CAS #	Percent	Chemical Name
7647010	1-3%	Hydrochloric acid, solution
1310732	5-8%	Sodium hydroxide

#### 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.

### 4 FIRST AID MEASURES

<b>Inhalation:</b>	If symptoms develop, move victim to fresh air; if symptoms persist, obtain medical attention.
<b>Skin Contact:</b>	Wash with soap and water. If irritation persists consult medical personnel.
<b>Eye Contact:</b>	Immediately flush eyes with large amounts of water for at least 15 minutes, lifting eyelids occasionally to facilitate irrigation. Get immediate medical attention.
<b>Ingestion:</b>	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

<b>Flash Point:</b>	>212°F
<b>Flash Point Method:</b>	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

<b>Handling Precautions:</b>	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.
<b>Storage Requirements:</b>	Keep away from children. Store in cool/dry area; Keep container closed.

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### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:** Normal room ventilation is satisfactory for limited use.

**Personal Protective Equip:** HMIS PP, B | Safety glasses, Gloves

Sodium Hydroxide 1310-73-2 OSHA PEL 2 mg/m3

### 9 PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Clear amber-brown

**Physical State:** Liquid

**Spec Grav./Density:** 9.58 lb/gal

**Boiling Point:** N/D

**Vapor Pressure:** N/D

**pH:** 7.0 - 7.5

**Odor:** Musty

**Solubility:** Soluble

**Freezing/Melting Pt.:** N/D

**Vapor Density:** N/D

### 10 STABILITY AND REACTIVITY

**Stability:** Product is stable under normal conditions.

**Conditions to Avoid:** None known

**Materials to Avoid:** None known

**Hazardous Decomposition:** Exposure to fire may liberate carbon dioxide, carbon monoxide, organic acids, and other unidentified thermal decomposition products from this product or its packaging.

**Hazardous Polymerization:** Will not occur.

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### 11 TOXICOLOGICAL INFORMATION

#### Toxicity Data:

Hydrochloric acid 7647-01-0

Oral ( LD 50): 900 mg/kg - Rabbit

Inhalation ( LC 50): 3124 ppm/1H - Rat

Skin irritation: Mild - Human

Eye irritation: Mild - Rabbit

Sensitization: Not considered an occupational sensitizer

Sodium Hydroxide 1310-73-2

Oral ( LD 50): Not listed on RTECS

Intraperitoneal Injection 40 mg/kg - Mouse

Inhalation ( LC 50): Not listed on RTECS

Skin irritation: Mild

Eye irritation: Severe

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 #

Ship in accordance with 49 CFR parts 100-185. Non-hazardous for air, sea and road freight.

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### 15 REGULATORY INFORMATION

COMPONENT / (CAS/PERCENT) / CODES

\*Hydrochloric acid, solution (7647010 1-3%) CERCLA, CSWHS, EHS302, EPCRAWPC, HAP, MASS, NJEHS, NJHS, OSHAPSM, OSHAWAC, PA, SARA313, TXAIR

\*Sodium hydroxide (1310732 5-8%) CERCLA, CSWHS, MASS, OSHAWAC, PA, TSCA, TXAIR

REGULATORY KEY DESCRIPTIONS

All components are listed on TSCA

CERCLA = Superfund clean up substance  
CSWHS = Clean water Act Hazardous substances  
EHS302 = Extremely Hazardous Substance  
EPCRAWPC = EPCRA Water Priority Chemicals  
HAP = Hazardous Air Pollutants  
MASS = MA Massachusetts Hazardous Substances List  
NJEHS = NJ Extraordinarily Hazardous Substances  
NJHS = NJ Right-to-Know Hazardous Substances  
OSHAPSM = OSHA Chemicals Requiring process safety management  
OSHAWAC = OSHA workplace Air Contaminants  
PA = PA Right-To-Know List of Hazardous Substances  
SARA313 = SARA 313 Title III Toxic Chemicals  
TXAIR = TX Air Contaminants with Health Effects Screening Level

### 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