



Red Rescue  
Material Safety Data Sheets (MSDS)

## Red Rescue Part A

MSDS Number: E410A

Revision Date: November 25, 2013

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## 1 PRODUCT AND COMPANY IDENTIFICATION

### Manufacturer

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

**Contact:** Prochem  
**Phone:** 480-899-7000  
**Fax:** 480-786-9538  
**Email:** info@prochem.com  
**Web:** www.prochem.com

**Product Name:** Red Rescue Part A  
**Revision Date:** November 25, 2013  
**Version:** 42-33A  
**MSDS Number:** E410A

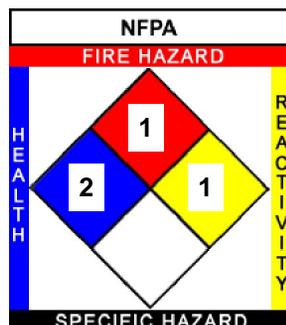
**Emergency Information: INFOTRAC 1-800-535-5053 International 1-352-323-3500**

## 2 HAZARDS IDENTIFICATION

**Route of Entry:** Eyes; Skin; Inhalation;  
**Target Organs:** Eyes; Skin;  
**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:** No significant adverse health effects are expected to develop if only small amounts are swallowed. Swallowing large amounts may cause abdominal discomfort and diarrhea.

NFPA:  
HMIS III:

Health = 2, Fire = 1, Reactivity = 1  
H2/F1/PH1



HMIS III	
HEALTH	2
FLAMMABILITY	1
PHYSICAL HAZARDS	1
PERSONAL PROTECTION B   Safety Glasses, Gloves	

PERSONAL PROTECTION INDEX			
A	Goggles	G	Goggles + Gloves + Respirator
B	Goggles + Gloves	H	Goggles + Gloves + Boots + Respirator
C	Goggles + Gloves + Boots	I	Goggles + Gloves + Respirator
D	Goggles + Gloves + Boots + Respirator	J	Goggles + Gloves + Boots + Respirator
E	Goggles + Gloves + Boots + Respirator	K	Goggles + Gloves + Boots + Respirator
F	Goggles + Gloves + Boots + Respirator	X	Consult your supervisor or S.O.P. for "SPECIAL" handling directions
A	Safety Glasses	n	Splash Goggles
o	Face Shield & Eye Protection	p	Gloves
q	Boots	r	Synthetic Aseon
s	Full Suit	Additional Information	
t	Dust Respirator	u	Vapor Respirator
w	Dust & Vapor Respirator	y	Full Face Respirator
z	Active Hood or Mask		

GHS Classifications:

Health, Acute toxicity, 5 Oral

Health, Skin corrosion/irritation, 3

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Health, Serious Eye Damage/Eye Irritation, 2 B

### GHS Phrases:

Warning, H303 - May be harmful if swallowed

Warning, H316 - Causes mild skin irritation

Warning, H320 - Causes eye irritation

### GHS Precautionary Statements:

Wash thoroughly after handling.

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

IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do.

Continue rinsing.

Call a POISON CENTER or doctor/physician if you feel unwell.

If eye irritation persists: Get medical advice/attention.

GHS PICTOGRAMS: No GHS Pictograms

## 3 HAZARDS IDENTIFICATION

### Ingredients:

CAS #	Percentage	Chemical Name
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7681-57-4	<17%	Sodium metabisulfite
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### OSHA Regulatory Status:

This SDS contains valuable information critical to the safe handling and proper use of this product.

This SDS should be retained and available for employees and other users of this product.

## 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:** 100°C/ 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

Keep away from drains and ground water. 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. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

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### 7 HANDLING AND STORAGE

**Handling Precautions:** Avoid contact with eyes, skin, or clothing; Consider normal working hygiene. Handle with care and avoid spillage on the floor (slippage). Keep away from sources of ignition; wash thoroughly after handling.

**Storage Requirements:** Keep away from children. Store in cool/dry area; Keep container closed.

### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

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

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

No OSHA PEL established for listed chemicals

Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

### 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Clear light brown	<b>Odor:</b>	Sulfite
<b>Physical State:</b>	Liquid	<b>Solubility:</b>	Soluble
<b>Spec Grav./Density:</b>	9.67 lb/gallon		
<b>pH:</b>	3.0 - 3.5 as is - 3.35 RTU		

### 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.

### 11 TOXICOLOGICAL INFORMATION

**Toxicity Data:**

Sodium Metabisulfite 7681-57-4

Oral ( LD 50): 1131 mg/kg - Rat

Inhalation ( LC 50): Not Listed on RTECS

Skin irritation: Mild - Rabbit

Eye irritation: Mild - Rabbit

Sensitation: Not considered an occupational sensitizer

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### 12 ECOLOGICAL INFORMATION

On the basis of available information, this material is not expected to produce any significant environmental effects when recommended use instructions are followed.

### 13 DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations.

### 14 TRANSPORT INFORMATION

Limited Quantity (Ltd Qty) Ship in accordance with 49 CFR parts 100-185.

### 15 REGULATORY INFORMATION

COMPONENT / (CAS/PERCENT) / CODES

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\*Sodium metabisulfite (7681574 <17%) MASS, OSHAWAC, PA, TSCA, TXAIR, WHMIS

REGULATORY KEY DESCRIPTIONS

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All components are listed on TSCA

MASS = MA Massachusetts Hazardous Substances List  
OSHAWAC = OSHA workplace Air Contaminants  
PA = PA Right-To-Know List of Hazardous Substances  
TXAIR = TX Air Contaminants with Health Effects Screening Level  
WHMIS = workplace Haz Mat Info Sys Canada

### 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

Phone Number: [480] 899-7000

## Red Rescue Part B

MSDS Number: E410B

Revision Date: November 25, 2013

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## 1 PRODUCT AND COMPANY IDENTIFICATION

### Manufacturer

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

Contact: Prochem  
 Phone: 480-899-7000  
 Fax: 480-786-9538  
 Email: info@prochem.com  
 Web: www.prochem.com

Product Name: Red Rescue Part B  
 Revision Date: November 25, 2013  
 Version: 45-21A  
 MSDS Number: E410B

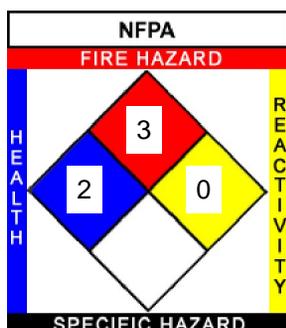
Emergency Information: INFOTRAC 1-800-535-5053 International 1-352-323-3500

## 2 HAZARDS IDENTIFICATION

Route of Entry: Eyes; Skin; Inhalation;  
 Target Organs: Eyes; Skin;  
 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.

NFPA:  
 HMIS III:

Health = 2, Fire = 3, Reactivity = 0  
 H2/F3/PH0



HMIS III	
HEALTH	2
FLAMMABILITY	3
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
Safety Glasses	Splash Goggles	Face Shield & Eye Protection	Gloves
q	r	s	
Boots	Synthetic Apron	Full Suit	
t	u	w	y
Dust Respirator	Vapor Respirator	Dust & Vapor Respirator	Full Face Respirator
z			
Airline Hood or More			

## Red Rescue Part B

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GHS Hazard Pictograms:



GHS Classifications:

Health, Acute toxicity, 5 Oral  
 Health, Skin corrosion/irritation, 3  
 Health, Serious Eye Damage/Eye Irritation, 2 B  
 Physical, Flammable Liquids, 3

GHS Phrases:

Warning, H303 - May be harmful if swallowed  
 Warning, H316 - Causes mild skin irritation  
 Warning, H320 - Causes eye irritation  
 Warning, H226 - Flammable liquid and vapour

GHS Precautionary Statements:

Wash thoroughly after handling.  
 Wear protective gloves/protective clothing/eye protection/face protection.  
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do.

Continue rinsing.

Call a POISON CENTER or doctor/physician if you feel unwell.  
 If eye irritation persists: Get medical advice/attention.  
 In case of fire: Use ABC extinguisher for extinction.  
 Store in a well ventilated place. Keep cool.

## 3 HAZARDS IDENTIFICATION

Ingredients:

CAS #	Percentage	Chemical Name
6834-92-0	<3%	Sodium metasilicate
67-63-0	<7%	Isopropyl alcohol

OSHA Regulatory Status:

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

## 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.

## Red Rescue Part B

MSDS Number: E410B

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### 5 FIRE FIGHTING MEASURES

Flash Point: 34°C/ 93.2°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

Keep away from drains and ground water. 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. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

### 7 HANDLING AND STORAGE

Handling Precautions: Avoid contact with eyes, skin, or clothing; Consider normal working hygiene. Handle with care and avoid spillage on the floor (slippage). Keep away from sources of ignition; wash thoroughly after handling.

Storage Requirements: Keep away from children. Store in cool/dry area; Keep container closed.

### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

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

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

Isopropyl Alcohol 67-63-0 OSHA PEL 400 ppm/ 980 mg/m<sup>3</sup>

Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

### 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear colorless

Physical State: Liquid

Spec Grav./Density: 8.40 lb/gallon

pH: 12.78

Odor: Alcohol

Solubility: Soluble

Flash Point: 34C / 93.2F

### 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.

## Red Rescue Part B

MSDS Number: E410B

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**11** TOXICOLOGICAL INFORMATION

## Toxicity Data:

Sodium Metasilicate 6834-92-0

Oral ( LD 50): 1153 mg/kg - Rat

Inhalation ( LC 50): Not listed on RTECS

Skin irritation: Severe

Eye irritation: Severe

Sensitation: Not considered an occupational sensitizer

Isopropyl Alcohol 67-63-0

Oral ( LD 50): 5045 mg/kg - Rat

Inhalation ( LC 50): 16000 ppm/8H - Rat

Skin irritation: Mild - Rabbit

Eye irritation: Severe - Rabbit

Sensitation: Not considered an occupational sensitizer

**12** ECOLOGICAL INFORMATION

On the basis of available information, this material is not expected to produce any significant environmental effects when recommended use instructions are followed.

**13** DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations.

**14** TRANSPORT INFORMATION

Limited Quantity (Ltd Qty) Ship in accordance with 49 CFR parts 100-185.

## Red Rescue Part B

MSDS Number: E410B

Revision Date: November 25, 2013

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**15** REGULATORY INFORMATION

COMPONENT / (CAS/PERCENT) / CODES

-----  
\*Sodium metasilicate (6834920 <3%) TSCA, WHMIS

\*Isopropyl alcohol (67630 &lt;7%) MASS, NJHS, NRC, OSHAWAC, PA, SARA313, TSCA, TXAIR, WHMIS

## REGULATORY KEY DESCRIPTIONS

-----  
All components are listed on TSCA

MASS = MA Massachusetts Hazardous Substances List

NJHS = NJ Right-to-Know Hazardous Substances

NRC = Nationally Recognized Carcinogens

OSHA WAC = 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

WHMIS = workplace Haz Mat Info Sys Canada

**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

Phone Number: [480] 899-7000

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Material Safety Data Sheets (MSDS)

***PROCHEM***<sup>®</sup>