

L-229

MSDS Number: L907715

Revision Date: May 2, 2012

Page 1 of 5

## 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.karcherna.com

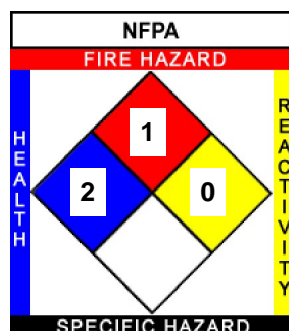
Product Name: L-229  
Revision Date: May 2, 2012  
MSDS Number: L907715

For Chemical Emergency, Spill, Leak, Fire, Exposure Call: (800) 535-5053 [Infotrac]

## 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:** Irritating to skin; may cause burns, blisters and itching  
**Eye Contact:** Irritating to eyes, eye damage may occur  
**Ingestion:** Irritating to intestinal tract; may cause burns, vomiting, stomach pain, and disorientation

NFPA: Health = 2, Fire = 1, Reactivity = 0  
HMIS III: H2/F1/PH0



HMIS III	
HEALTH	2
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	
t		u		w	
p		y		z	
q		r		s	
Additional information					

### GHS Precautionary Statements:

P101 - If medical advice is needed, have product container or label at hand.  
P102 - Keep out of reach of children.  
P233 - Keep container tightly closed.  
P262 - Do not get in eyes, on skin, or on clothing.  
P281 - Use personal protective equipment as required.

L-229

MSDS Number: L907715

Revision Date: May 2, 2012

Page 2 of 5

## 3 HAZARDS IDENTIFICATION

### Ingredients:

CAS #	Percent	Chemical Name
6834-92-0	<35%	Sodium metasilicate
7632-00-0	<2%	Sodium nitrite
497-19-8	25-35%	Sodium Carbonate
111-76-2	<4%	Ethylene Glycol Butyl Ether

### 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:** Remove from exposure and get fresh air. Keep warm and at rest. Get medical attention immediately if artificial respiration is required.
- Skin Contact:** Remove contaminated clothing, jewelry and shoes immediately. Flush affected area with large amounts of water, then use soap or mild detergent and large amounts of water for 15-20 minutes to cleanse area. If skin is severely irritated or burned, get medical attention immediately.
- Eye Contact:** Immediately flush eyes with large amounts of water occasionally lifting upper and lower lids for at least 15 minutes. 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 away from drains and ground water. Keep all unnecessary personnel away. Spill area may be slippery. Sweep up, place in bag and hold for waste disposal. 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.

L-229

MSDS Number: L907715

Revision Date: May 2, 2012

Page 3 of 5

## 7 HANDLING AND STORAGE

**Handling Precautions:** Do not get in eyes, on skin, or on clothing. Do not breathe dust. 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.

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

No OSHA PEL established for listed chemicals

## 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Light orange	<b>Odor:</b>	Citrus
<b>Physical State:</b>	Powder	<b>Solubility:</b>	Soluble
<b>Spec Grav./Density:</b>	N/A		
<b>pH:</b>	11.88 @ 1% Solution		

## 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

### Acute Toxicity:

Sodium metasilicate

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

Inhalation ( LC 50): Not Listed on RTECS

Skin irritation: Severe

Eye irritation: Severe

Sensitization: Not considered an occupational sensitizer

Chronic Toxicity: Not considered a carcinogen, developmental toxin or a mutagen

## Sodium nitrite

Oral ( LD 50): 1153 mg/kg Rat

Inhalation ( LC 50): 5.5 mg/m<sup>3</sup>/4H Rat

Skin irritation: Mild

Eye irritation: Mild

Sensitization: Not considered an occupational sensitizer

Chronic Toxicity: Not considered a carcinogen, developmental toxin or a mutagen

## Sodium Carbonate 497-19-8

Oral ( LD 50): 4090 mg/kg - Rat

Inhalation ( LC 50): 2300 mg/m<sup>3</sup>/2H - Rat

Skin irritation: Mild - Rabbit

Eye irritation: Moderate - Rabbit

Sensitization: Not considered an occupational sensitizer

## Ethylene glycol butyl ether 111-76-2

Oral ( LD 50): 917 mg/kg - Rat

Inhalation ( LC 50): 2900 mg/m<sup>3</sup>/7H - Rat

Skin irritation: Mild

Eye irritation: Mild

Sensitization: Not considered an occupational sensitizer

**12**

## ECOLOGICAL INFORMATION

This product is 100% biodegradable

**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.

## 15 REGULATORY INFORMATION

### COMPONENT / (CAS/PERCENT) / CODES

-----

- \*Sodium metasilicate (6834920 <35%) TSCA, WHMIS
- \*Sodium nitrite (7632000 <2%) CERCLA, CSWHS, MASS, PA, SARA313, TSCA, WHMIS
- \*Sodium Carbonate (497198 25-35%) TSCA, WHMIS
- \*Ethylene Glycol Butyl Ether (111762 <4%) 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  
MASS = MA Massachusetts Hazardous Substances List  
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 = 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