



Aluminum Brightener

MSDS Number: H904935

Revision Date: December 16, 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

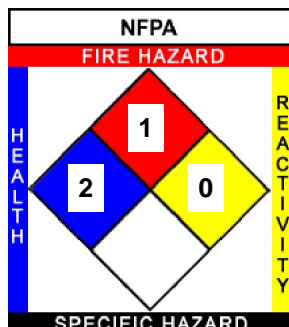
Product Name: Aluminum Brightener
Revision Date: December 16, 2013
Version: 43-34B
MSDS Number: H904935

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; Respiratory system;
Inhalation: Can cause irritation and inflammation of the respiratory tract.
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	Goggles	G	Goggles + Gloves + Respirator										
B	Goggles + Gloves	H	Goggles + Gloves + Apron + Respirator										
C	Goggles + Gloves + Apron	I	Goggles + Gloves + Respirator										
D	Respirator + Gloves + Apron	J	Goggles + Gloves + Apron + Respirator										
E	Goggles + Gloves + Face Shield	K	Respirator + Gloves + Apron + Boots										
F	Goggles + Gloves + Apron + 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 Apron	S	Full Suit
t	Dust Respirator	U	Vapor Respirator	w	Dust & Vapor Respirator	y	Full Face Respirator	Z	Airline Hood or Mask	Additional Information			

GHS Hazard Pictograms:





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GHS Classifications:

Health, Acute toxicity, 4 Oral
 Health, Acute toxicity, 4 Dermal
 Health, Serious Eye Damage/Eye Irritation, 1

GHS Phrases:

Warning, H302 - Harmful if swallowed
 Warning, H312 - Harmful in contact with skin
 Danger, H318 - Causes serious eye damage

GHS Precautionary Statements:

Wash thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Wear protective gloves/protective clothing/eye protection/face protection.
 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
 IF ON SKIN: Wash with soap and water.
 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do.
 Continue rinsing.
 Wash contaminated clothing before reuse.

3 HAZARDS IDENTIFICATION

Ingredients:

CAS #	Percentage	Chemical Name
111-76-2	<2%	Ethylene glycol monobutyl ether
1341-49-7	<10%	Ammonium bifluoride
7664-93-9	<23%	Sulfuric acid

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: Rinse mouth with water. DO NOT INDUCE VOMITING unless instructed to by medical personnel. If vomiting occurs keep head lower than hips to help prevent aspiration. If person is unconscious, do not induce vomiting; turn their head to the side. Never make an unconscious person vomit or drink fluids. Get 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



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of surrounding fire.

6 ACCIDENTAL RELEASE MEASURES

Isolate area; keep unnecessary personnel away. Do not discharge into drains. Ventilate closed spaces before entering. Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas. Wear appropriate protective equipment and clothing during cleanup. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

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.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

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

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

Ethylene glycol butyl ether 111-76-2 OSHA PEL 50 ppm - 240 mg/m3

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear colorless	Odor:	Solvent
Physical State:	Liquid	Solubility:	Soluble
Spec Grav./Density:	9.72 lb/gal		
pH:	<1 as is		

10 STABILITY AND REACTIVITY

Stability: Product is stable under normal conditions.

Conditions to Avoid: None Known

Materials to Avoid: Strong oxidizing or acidic materials

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:

Ethylene glycol butyl ether 111-76-2

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

Inhalation (LC 50): 2900 mg/m3/7H - Rat



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Skin irritation: Mild

Eye irritation: Mild

Sensitization: Not considered an occupational sensitizer

Ammonium Bifluoride 134-14-97

Oral (LD 50): Not Listed on RTECS

Inhalation (LC 50): Not Listed on RTECS

Skin irritation: Mild

Eye irritation: Severe

Sensitization: Not considered an occupational sensitizer

Sulfuric acid 7664-93-9

Oral (LD 50): 350 mg/kg - Rat

Inhalation (LC 50): 510 mg/m³/2H - Rat

Skin irritation: Severe - Rabbit

Eye irritation: Severe - Rabbit

Sensitization: Not considered an occupational sensitizer

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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.

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DISPOSAL CONSIDERATIONS

Dispose of in accordance with all applicable regulations.

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TRANSPORT INFORMATION

UN1760 Corrosive Liquids, n.o.s., (Sulfuric acid), 8, II Ship in accordance with 49 CFR parts 100-185.



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15 REGULATORY INFORMATION

COMPONENT / (CAS/PERCENT) / CODES

*Ethylene glycol monobutyl ether (111762 <2%) MASS, OSHAWAC, PA, TSCA, TXAIR, WHMIS

*Ammonium bifluoride (1341497 <10%) CERCLA, CSWHS, MASS, PA, TSCA

*Sulfuric acid (7664939 <23%) CERCLA, CSWHS, EHS302, EPCRAWPC, MASS, NJHS, OSHAWAC, PA, SARA313, TSCA, TXAIR, WHMIS

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

MASS = MA Massachusetts Hazardous Substances List

NJHS = NJ Right-to-Know Hazardous Substances

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

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