

## LFB Copper - Liquid Foot Bath with Copper

SDS Number: H698115

Revision Date: October 6, 2015

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### 1 PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** LFB Copper - Liquid Foot Bath with Copper  
**Revision Date:** October 6, 2015  
**SDS Number:** H698115

**Manufactured for:**

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

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

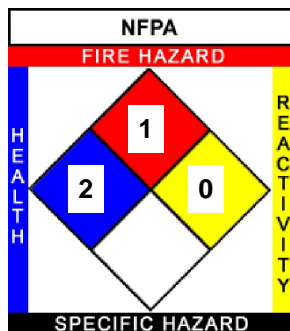
**Emergency Information:** INFOTRAC 1-800-535-5053 International 1-352-323-3500

### 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:** Corrosive, causes skin burns.  
**Eye Contact:** Direct contact with eye will result in damage and/or severe irritation.  
**Ingestion:** Irritating to intestinal tract; may cause burns, vomiting, stomach pain, and disorientation.

NFPA:  
 HMIS III:

Health = 2, Fire = 1, Reactivity = 0  
 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		p		q		r		s	
t		u		w		y		z		Additional Information			

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GHS Signal Word:  
DANGER

GHS Hazard Pictograms:



GHS Classifications:

Health, Acute toxicity, 4 Oral  
Health, Skin corrosion/irritation, 1 C  
Environmental, Hazards to the aquatic environment - Chronic, 1

GHS Phrases:

H302 - Harmful if swallowed  
H314 - Causes severe skin burns and eye damage  
H410 - Very toxic to aquatic life with long lasting effects

GHS Precautionary Statements:

P260 - Do not breathe dust/fume/gas/mist/vapours/spray.  
P264 - Wash thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P310 - Immediately call a POISON CENTER or doctor/physician.  
P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
P363 - Wash contaminated clothing before reuse.  
P273 - Avoid release to the environment.  
P391 - Collect spillage  
P405 - Store locked up.  
P403+233 - Store in a well ventilated place. Keep container tightly closed.  
P501 - Dispose of contents/container in accordance with all local, regional, national and international regulations.

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### COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

CAS #	Percentage	Chemical Name
7758-99-8	1-10%	Copper (II) Sulfate Pentahydrate
7783-20-2	1-5%	Sulfuric acid diammonium salt (Ammonium sulfate)
7664-93-9	15-25%	Sulfuric acid
7446-19-7	1-5%	Zinc Sulfate Monohydrate

#### 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.



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### 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. 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 of surrounding fire. This material is toxic to aquatic life with long-lasting effects. Water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. Irritating and toxic gases or fumes may be released during a fire including oxides of carbon and oxides of sulfur.

### 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

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.



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### 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Dark blue	<b>Odor:</b>	None
<b>Physical State:</b>	Liquid	<b>Solubility:</b>	Soluble
<b>Spec Grav./Density:</b>	10.34 lb/gallon	<b>Flash Point:</b>	> 212 F (100 C)
<b>pH:</b>	approximately 0.9		

### 10 STABILITY AND REACTIVITY

<b>Stability:</b>	Product is stable under normal conditions.
<b>Conditions to Avoid:</b>	None known
<b>Materials to Avoid:</b>	Strong oxidizing or acidic materials
<b>Hazardous Decomposition:</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:

Copper II Sulfate Pentahydrate 7758-99-8

Oral ( LD 50): 300 mg/kg - Rat

Inhalation ( LC 50): Not listed on RTECS

Skin irritation: Mild - Rabbit

Eye irritation: Severe - Rabbit

Sensitization: Not considered an occupational sensitizer

Ammonium sulfate 7783-20-2

Oral ( LD 50): 2840 mg/kg - Rat

Inhalation ( LC 50): Not Listed on RTECS

Skin irritation: Mild - Rabbit

Eye irritation: Severe - Rabbit

Sensitization: Not considered an occupational sensitizer

Sulfuric acid 7664-93-9

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

Inhalation ( LC 50): 510 mg/m<sup>3</sup>/2H - Rat

Skin irritation: Severe - Rabbit

Eye irritation: Severe - Rabbit



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Sensitation: Not considered an occupational sensitizer

Zinc sulfate monohydrate 7446-19-7

Oral ( LD 50): 574 mg/kg - Rat

Inhalation ( LC): Not listed on RTECS

Skin irritation: Mild - Human

Eye irritation: Severe - Rabbit

Sensitation: Not considered an occupational sensitizer

### 12 ECOLOGICAL INFORMATION

#### Component analysis - ecotoxicity - aquatic toxicity:

##### Sulfuric acid (7664-93-9)

Test & Species Result 96 Hr LC50 zebra fish >500 mg/L 24 Hr EC50 water flea 29 mg/L

##### Copper II sulfate pentahydrate (7758-99-8)

Test & Species Result 96 Hr LC50 bluegill sunfish 0.66-1.8 mg/L 48 Hr EC50 water flea 0.147-0.227 mg/L

### 13 DISPOSAL CONSIDERATIONS

Recommendation: consultation with the disposal agency and the relevant authorities; cleansing agent is water.

### 14 TRANSPORT INFORMATION

UN2796 Sulfuric Acid, 8, II. Ship in accordance with 49 CFR parts 100-185.



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### REGULATORY INFORMATION

COMPONENT / (CAS/PERC) / CODES

\*Copper (II) Sulfate Pentahydrate (7758998 1-10%) SARA313, TSCA

\*Sulfuric acid diammonium salt (7783202 1-5%) TSCA

\*Sulfuric acid (7664939 15-25%) CERCLA, CSWHS, EHS302, EPCRAWPC, MASS, NJHS, OSHAWAC, PA, SARA313, TSCA, TXAIR, WHMIS

\*Zinc sulfate Monohydrate (7446197 1-5%) SARA313, TSCA

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  
OSHA = 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

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### 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