

MATERIAL SAFETY DATA SHEET

U. S. DEPARTMENT OF LABOR

May be used to comply with OSHA's Hazard Communication Standard 29 CFR 1910.1200. Standard must be consulted for specific requirements.

Occupational Safety and Health Administration
(Non-Mandatory Form)

Date Prepared: January 1, 2014

NFPA HAZARDS RATING

- 4 - EXTREME
- 3 - HIGH
- 2 - MODERATE
- 1 - SLIGHT
- 0 - INSIGNIFICANT

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FIRE
0

TOXICITY 0

1 REACTIVE

SPECIAL

MATERIAL SAFETY DATA SHEET

Product Identity: **Hoof 3**

Emergency Telephone Number: **1-800-255-3924 (Chem-Tel)**
International Number: 011-813-248-0585

SECTION I - Hazardous Ingredients Identity Information

Hazardous component,(specific chemical identity)	%	OSHA-PEL	ACGIH-TLV	Other Limits Recommended
Copper Sulfate -- CAS # 7440-50-8 (From Copper Sulfate Pentahydrate)	2.5	NA	NA	NA
Zinc Sulfate -- CAS # 7446-19-7 (from Zinc Sulfate Monohydrate)	4.5	NA	NA	NA
*Sulphuric Acid CASRN 7664-93-9 *Proprietary formula - corrosive to metals and some fabrics	<5.0	TWA 1 mg/M	NA	IDLH 80 mg/M

NON HAZARDOUS INGREDIENTS.....90%
TOTAL.....100%

SECTION II - Physical and Chemical Characteristics

Product: **A COPPER and ZINC SULFATE BASE SOLUTION**

Boiling Point:	220 degrees F	Specific Gravity:	1.19
Vapor Pressure (MM Hgt):	N/A	Melting Point:	N/A
Vapor Density (Air=1):	N/A	Evaporation Rate:	N/A
Solubility In Water:	COMPLETELY SOLUBLE	Appearance and Odor:	CLEAR BLUE LIQUID; ODORLESS
pH*:	0.2 - 1.5 * NON-CORROSIVE TO HUMAN AND ANIMAL TISSUE		

SECTION III - Fire and Explosion Hazard Data

Flash Point:	NONE	Flammable Limits:	NONE	
Special Fire Fighting Procedures:	NONE		Unusual Fire and Explosion Hazards:	NONE

SECTION IV - Reactivity Data

Stability:	STABLE.
Incompatibility: (Materials to Avoid)	HIGH pH SOLUTIONS, STRONG BASES. CORROSIVE TO SOME METALS AND FABRICS.
Hazardous Decomposition Of By-products:	SULPHURIC ACID FUMES MAY BE GENERATED BY THERMAL DECOMPOSITION.
Hazardous Polymerization:	WILL NOT OCCUR.

SECTION V - Health Hazard Data

Health Hazards:	AVOID CONTACT WITH EYES - IRREVERSIBLE EYE DAMAGE MAY RESULT. AVOID PROLONGED CONTACT WITH SKIN. MAY CAUSE SKIN IRRITATION. SULPHUR (Acute and Chronic) ALLERGIES MAY OCCUR.
Signs and Symptoms of Exposure:	ALLERGIES MAY OCCUR. SKIN IRRITATION MAY OCCUR. AVOID PROLONGED BODY CONTACT (ALWAYS USE PROTECTIVE CLOTHING).
Medical Conditions Generally Aggravated by Exposure:	SULPHUR ALLERGIES MAY OCCUR.
Emergency and First Aid Procedures:	TREAT AS A SULPHUR BASE REACTION. ALWAYS MOVE TO FRESH AIR. WASH SKIN AREA WITH POTABLE WATER.

SECTION VI - Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled:	FLUSH WITH WATER INTO A RETAINING AREA. CONTAIN AND NEUTRALIZE WITH BICARBONATE OF SODA OR LIMESTONE.
Waste Disposal Method:	NEUTRALIZE WITH BICARBONATE OF SODA OR FERTILIZER GRADE LIMESTONE AND DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL ENVIRONMENTAL REGULATIONS.
Precautions to be Taken in Handling and Storage:	AVOID STORAGE IN EXCESSIVE HEAT - EXPANSION OF CONTAINER MAY OCCUR CREATING SPILLAGE.
Other Precautions:	DO NOT STORE IN NYLON OR GALVANIZED EQUIPMENT. CONCENTRATE WILL DESTROY NYLON AND COTTON CLOTH.

SECTION VII - Control Measures

Respiratory Protection: (Specify Type)	ADEQUATE LOCAL VENTILATION.
Ventilation:	YES

Local Exhaust: YES
Protective Gloves: YES/MILD IRRITATION MAY OCCUR
Eye Protection: YES
Work Hygiene Practices: WASH WITH WATER.

SECTION VIII - TRANSPORTATION INFORMATION

DOT INFORMATION

Meets 1 Gallon LTQ exemption (no hazmat in gallon containers)

Proper Shipping Name: Sulphuric acid with not more than 51% acid

Hazard Class: 8

UN/NA #: UN2796

Packing Group: II

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