

MATERIAL SAFETY DATA SHEET

Specialty Sales LLC
1700 Airline Highway #451
Hollister CA 95023-5621
831-636-8518

COPPER HOOF 2X 1/GALLON/5 GALLON/30 GALLON

Section 1 – PRODUCT IDENTIFICATION

Product Name: Copper Hoof 2X

Section 1.5-NON-HAZARDOUS INGREDIENTS

TSRW-951 INERT CARRIER CO-SOLVENT 40-80%

Section 2 – HAZARDOUS INGREDIENTS

Components	CAS #	OSHA PEL	ACGIH TLV	
Copper sulfate Pentahydrate	7758-99-8	1 mg/m	1 mg/m	15-25%
Proprietary blend that should be treated as strong mineral acids and the salts of those acids	7664-01-9-00981	1 mg/m	1 mg/m	21%-41%

Section 3 – HEALTH HAZARDS IDENTIFICATION

Primary routes of Entry: Inhalation, Skin, and Ingestion

Eyes: Corrosive. Exposure may cause severe burns, destruction of eye tissue and possible permanent injury or blindness
Skin: Corrosive. Contact may cause reddening, itching, inflammation, burns, blistering and possible tissue damage.
Ingestion: Corrosive. May cause painful irritation and burning of the mouth and throat, painful swallowing, labored breathing burns or perforation of the gastrointestinal tract leading to ulceration and secondary infection.
Inhalation: Irritating. Overexposure may cause burns and tissue damage.

Section 4 – FIRST AID MEASURES

Eyes: Flush immediately with large amounts of water for at least 20 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get immediate medical attention.
Skin: Immediately flush skin with plenty of water, for at least 20 minutes, while removing contaminated clothing and shoes. Get immediate medical attention.
Ingestion: If victim is conscious and alert, give 1-3 glasses of water to dilute stomach contents. Rinse mouth out with water. Do not induce vomiting unless directed by medical personnel. Get immediate medical attention.
Inhalation: Remove to fresh air. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. Keep affected person warm and at rest. Get immediate medical attention.

Section 5 – FIRE AND EXPLOSION HAZARDS

Flash Point: N/E UFL: N/E LFL: N/E

General Fire Hazards: Water applied directly could result in spattering of acid solution.
Hazardous Combustion Products: May react with most metals to produce hydrogen gas, which can form an explosive mixture with air.
Fire Fighting Equipment/Instructions: Firefighters must wear MSHA/NIOSH approved positive pressure breathing Apparatus (SCBA) with full-face mask and full protective equipment.

NFPA Rating: Fire: 0 Health: 2 Reactivity: 1 Other: X
HMIS Rating: Fire: 0 Health: 2 Reactivity: 1 Personal Protection: X

Section 6 – ACCIDENTAL RELEASE MEASURES

Containment Procedures: Flush with water into retaining area or container. Caution should be exercised regarding personal safety and exposure to related product.
Clean-Up Procedures: Neutralize solution with bicarbonate of soda. Or equal parts of slaked lime.
Evacuation Procedures: Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind. Ventilate entire area
Special Instructions: Notify local authorities and the National Response Center, if required.

LARGE SPILLS Contain spill and ventilate area. Permit only trained personnel wearing full protective equipment to enter spill area
Collect spill in a waste container or remove with a vacuum truck. Prevent spill from entering natural watercourses.

Wear complete protective clothing when cleaning up chemical spills. Spills and releases must be reported to State/Federal/Local authorities. See section (section 15) regarding reporting requirements.

7. HANDLING AND STORAGE INFORMATION

HANDLING Avoid contact with skin, eyes, and clothing.
 Avoid breathing product vapors and mists.
 Do not take internally.
 Wash thoroughly after handling this material.

STORAGE Keep container closed when not in use.
 This material should be stored at moderate temperatures.
 Avoid contact with Zinc, tin, aluminum and their alloys.
 Store in a cool dry place.
 Empty container is hazardous (corrosive)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Use process enclosures. Local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

SKIN: Wear protective clothing and gloves made of neoprene or rubber.

EYES: Wear chemical safety goggles.

RESPIRATORY: For exposure levels greater than 5 ppm but not greater than 50 ppm use a NIOSH-approved respirator for hydrogen chloride gas, or hydrogen chloride mists in order to maintain levels below exposure limits. For gas concentration greater than 50 ppm, use a supplied air, full face-piece respirator or self-contained breathing apparatus.

OTHER: Emergency showers, eyewash stations and fire blankets should be accessible. Wear protective clothing.

EXPOSURE:	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
	5 ppm (C)	N/EST	5ppm (C)	N/EST

C= Ceiling

See 29 CFR 1910.1000 (D) (2) and AGHI "Threshold limit Values for Chemical Substances and Physical Agents Biological Exposure Indices" booklet (Appendix C) for the determination of exposure and limits for mixtures. Consult an industrial hygienist or similar professional to confirm that the calculated exposure limits are appropriate.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid
APPEARANCE:	Blue to dark blue or green
ODOR:	Acrid, pungent
MOLECULAR WEIGHT	N/A/V
SPECIFIC GRAVITY	1.089
SOLUBILITY IN WATER	Soluble
BOILING POINT	221 F 104.99 C
FREEZING POINT	-40F -60 C
MELTING POINT	N/A/V
PRODUCT pH (@23 C)	<1
VAPOR PRESSURE:	0.1 mmHg @ 20 C
VAPOR DENSITY:	1.3
EVAPORATION RATE: (BUTAL ACETATE=1):	>1
% VOLATILES:	N/A/V

10. STABILITY AND REACTIVITY INFORMATION

STABILITY: Stable

CONDITIONS TO AVOID: Avoid contact with combustible materials.

INCOMPATIBILITY: this material should avoid contact with most metals, alkalies, metallic oxides, amines, carbonates, sulfides and strong oxidizers.

Metals: Reacts to release hydrogen gas.
Oxidizers: Reacts to release chlorine gas.
Cyanides: Reacts to release cyanide gas.
Sulfides: Reacts to release hydrogen sulfide gas
Formaldehyde: Reacts to release Bischloromethyl ether.
Carbonates: Reacts to form carbon dioxide.

11. TOXICOLOGICAL INFORMATION

IMMEDIATE EFFECTS

Moderately toxic: inhalation, ingestion.
This material is corrosive by inhalation, skin and eye contact and ingestion.
5mg/30seconds 9s) rinsed eyes- rabbit- mild irritation
3124 ppm/1 hour (s) inhalation -rat- LD50
1108 ppm/1 hour (s) inhalation -mouse- LD50
1449 mg/kg intraperitoneal - mouse - LD50
900 mg/kg oral -rabbit - LD50

DELAYED EFFECTS (CHRONIC AND SUBCRONIC)

CARCINOGENICITY: No data available
EPIDEMIOLOGY: No data available
TERATOGENICITY: No data Available
REPRODUCTIVILY: 450 mg/m3 inhalation-rat- Telo/1 hour (s) 1 day (s) pre-pregnancy continuous.
NEUROTOXICITY: No data Available

12. ECOLOGICAL INFORMATION

Fish toxicity
21900-ug/L 96-hour LC50 (mortality) Fathead minnow
Invertebrate toxicity:
560-ug/L 48 hour EC50 (immobilization) Water Flea
Algal Toxicity:
600-ug/L 1600 weeks EC50 (population size reduction) Green Algae
Phytotoxicity: 1000 M 24 week BCF (residue) Blue-green Algae (coccochloris sp) 1E-6.5 M

13. DISPOSAL CONSIDERATION

RCRA WASTE No
RCRA ID NUMBER None
VOC CONTENT N/AP

Discharge, treatment or disposal may be subject to state and local regulations and restrictions may differ from Federal regulation.

14. DOT SHIPPING NAME: Copper Hoof 2X
DOT HAZARD CLASS: 8
DOT ID NUMBER: UN3264
DOT PACKING GROUP: IT
OTHER: labels required: Corrosive
IMDG HAZARD CLASS 8
ICAO HAZZARD CLASS 8

15. REGULATORY INFORMATION

CERCLA " REPORTABLE QUANTITY: (RQ) : 15,873 POUNDS.

Spills, releases resulting in the loss of this product at or above its RQ require immediate notification to the National Response Center (1-800-424-8802) and to your local authority or governing agency.

TSCA
TSCA INVENTORY STATUS: YES
SARA TITLE: IT1

This product does not contain any chemicals reportable under California Proposition 65.

16. OTHER INFORMATION:

CREATION DATE: 01/04/2000
REVISION DATE: 05/21/2008

The information herein is presented in good faith and is believed to be correct as of the date hereof. However, Specialty Sales, LLC makes no representation as to the completeness and accuracy thereof. Users must make their own determination as to the suitability of this product for their purposes prior to use.

No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature with respect to the product or to the information herein is made hereunder. Specialty Sales, LLC shall in no event be responsible for any damages of whatsoever nature directly or indirectly resulting from the publication, or use of, or reliance upon the information herein.

END OF DOCUMENT.