1-866-527-6229

Safety Data Sheet

Product: Copper Hoof 3X

1. IDENTIFICATION

Product Name	Copper Hoof 3X
Recommended Use	Bovine footbath additive
Restrictions on Use	Reserved for industrial and professional use.
Supplier Information	**Farmers Depot (a division of Grand Valley Fortifiers Ltd.)** **Refer to supplier** **455 Dobbie Dr** **Cambridge, ON, CA** **N1T1T1** **Supplier's Telephone # : 1-866-527-6229**
Emergency phone number:	Canada Call CANUTEC (collect) (613) 996-6666 U.S.A. Call CHEMTREC (800) 424-9300
Date of issue	07/03/2018
Emergency health information	1 (800) 424-9300 Outside the United States and Canada CALL: +1 (703) 741-5500

2. HAZARDS IDENTIFICATION

GHS Classification

Acute Oral Toxicity: Category 4
Skin Corrosion/Irritation: Category 1A
Serious Eye Damage/Eye Irritation: Category 1
Acute aquatic toxicity: Category 1
Chronic aquatic toxicity: Category 1

GHS Label Element

Hazard pictograms

Signal Word: Danger

Hazard Statements	Causes severe skin burns and eye damage Harmful if swallowed. Very toxic to aquatic life with long-lasting effects. Short Term: May be harmful if inhaled. (based on components) Long Term: Occupational exposure to strong-inorganic-acid mists containing sulfuric acid is carcinogenic to humans.
Precautionary Statements	
Prevention:	Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product Avoid release to the environment.
Response:	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
Storage:	Collect spillage. Store locked up. Store in a well-ventilated place. Keep container tightly closed.
Disposal:	Dispose of contents/container in accordance with all local and national regulations.
Other hazards	None Known

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Concentration (%)
Copper Sulfate, Pentahydrate	7758-99-8	5 – 25
Sulfuric Acid	7664-93-9	5 – 10
Inorganic salt	Proprietary	5 – 25

4. FIRST AID MEASURES

In case of eye contact	Flush with water while holding eyelids open for at least 15 minutes. Seek medical attention immediately.
In case of skin contact	Remove contaminated clothing. Flush area with large amounts of water. Use soap. Seek medical attention.

If swallowed	In the event of swallowing this material, seek immediate medical attention. DO NOT INDUCE VOMITING.
If inhaled	Remove to fresh air and keep patient at rest. Seek medical attention immediately.
Protection of first-aiders	If potential for exposure exists refer to Section 8 for specific personal protective equipment.
Notes to physician	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	None known.
Specific hazards during fire fighting	Formation of toxic gases is possible during heating or fire. Toxic or corrosive gases including oxides of carbon and oxides of sulfur.
Hazardous combustion products	
Fire / Explosion Hazards: Special protective equipment for fire-fighters	Fine particles (such as dust and mists) may fuel fires/explosions. Use personal protective equipment.
Specific extinguishing methods	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit, they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8. Minimize exposure.
Environmental precautions	Do not allow contact with soil, surface or ground water. Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to avoid environmental release.
Methods and materials for containment and cleaning up	Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contains material to ensure runoff does not reach a waterway.
Additional Consideration for	Non-essential personnel should be evacuated from affected area.

Large Spills	Report emergency situations immediately. Clean up operations should only be undertaken by trained personnel.

7. HANDLING AND STORAGE

Advice on safe handling	Use with adequate ventilation. Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. When handling, use appropriate personal protective equipment (see Section 8). Wash thoroughly after handling. Releases to the environment should be avoided. Review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure or environmental releases. Potential points of process emissions of this material to the atmosphere should be controlled with dust collectors, HEPA filtration systems or other equivalent controls.
Conditions for safe storage	Keep out of reach of children. Store in suitable labeled containers. Store tightly covered away from heat, acids, bases, and oxidizers. Protect from freezing.
Storage temperature	< 50°C/122°F
Incompatible Materials:	Metals Strong alkalis Reducing agents

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Refer to available public information for specific member state Occupational Exposure Limits.

Copper Sulfate, Pentahydrate
ACGIH Threshold Limit Value (TWA) 0.2 mg/m^3

Sulfuric acid
ACGIH Threshold Limit Value (TWA) 0.2 mg/m^3

Exposure Controls

Engineering measures	Engineering controls should be used as the primary means to control exposures. Keep airborne contamination levels below the exposure limits listed above in this section. General room ventilation is adequate unless the process generates dust, mist or fumes.
Personal protective equipment	Refer to applicable national standards and regulations in the selection and use of personal protective equipment (PPE).
Eye protection	Safety goggles/face protection.
Hand protection	Wear impervious gloves if skin contact is possible.

Skin protection	Wear impervious protective clothing to prevent skin contact.
Respiratory protection	When workers are facing concentrations above the exposure limit, they must use appropriate certified respirators.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Color	Clear, Blue
Odor	None
pH	< 0.5, 100%
Flash point	Not applicable
Odor Threshold	No data available
Melting point/freezing point	-18°C
Initial boiling point and boiling range	>116°C
Evaporation Rate	No data available
Flammability (solid, gas)	No data available
Upper explosion limit	No data available
Lower explosion limit	No data available
Vapor pressure	No data available
Relative vapor density	No data available
Relative density	No data available
Specific Gravity	>1 @ 25°C/77°F
Water solubility	Soluble
Solubility in other solvents	No data available
Partition coefficient: n-octanol/water	No data available
Auto ignition temperature	No data available
Thermal decomposition	No data available
Viscosity, kinematic	No data available
Explosive properties	No data available

Oxidizing properties	No data available
Molecular weight	No data available
VOC	No data available

10. STABILITY AND REACTIVITY

Chemical stability
Possibility of Hazardous Reactions

Stable under normal conditions.
Oxidizing Properties: Oxidizer
Conditions to Avoid: Keep away from excessive heat and flames. Alkalis Strong caustics.
Incompatible Materials: Metals Strong alkalis Reducing agents
Hazardous Decomposition Products: Thermal decomposition can lead to release of irritating gases and vapors. Thermal decomposition products may include oxides of sulfur. Copper oxides.

11. TOXICOLOGICAL INFORMATION

Irritation / Sensitization: (Study Type, Specie Severity)
Sulfuric acid
Eye Irritation
Severe Skin
Irritation Severe

Carcinogen Status: Exposure to strong inorganic mists containing sulfuric acid may cause cancer by inhalation See below

Sulfuric acid
IARC: Group 1 (Carcinogenic to Humans)
OSHA: Listed
Product Level Toxicity Data

Acute Toxicity Estimate (ATE), Oral ca. 1200 mg/kg

12. ECOLOGICAL INFORMATION

Environmental Overview: The environmental characteristics of this material have not been fully evaluated. Releases to the environment should be avoided.

Toxicity:

Aquatic Toxicity: (Species, Method, End Point, Duration, Result)
Sulfuric acid

Daphnia magna (Water Flea) EC50 24 Hours 29 mg/L
Brachydanio rerio (Zebra fish) LC50 96 Hours > 500 mg/L

Copper Sulfate, Pentahydrate

Lepomis macrochirus (Bluegill Sunfish) LC50 96 Hours 0.66 - 1.8 mg/L
Daphnia magna (Water Flea) EC50 48 Hours 0.147 - 0.227 mg/L

Persistence and degradability: No data available
Bioaccumulative potential: No data available
Mobility in soil: No data available
Other adverse effects: No data available

13. DISPOSAL CONSIDERATIONS

Waste Treatment	Waste may be classified as hazardous due to the pH/corrosivity. Dispose of waste in accordance with all applicable laws and regulations. Member State specific and Community specific provisions must be considered. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental releases. This may include destructive techniques for waste and wastewater.

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

14. TRANSPORT INFORMATION

Land transport (DOT)	
UN number	3082
Description of the goods	environmentally hazardous substance, liquid, N.O.S
Class	9
Packing group	III
Environmentally hazardous	(contains cupric sulfate, pentahydrate)

For small quantities packed in combination packaging, exceptions may apply. The marine pollutant information is necessary only for non-bulk shipments by vessel (IMDG), or for bulk shipments in any mode of transport. Please refer to the applicable dangerous goods regulations for additional information.

15. REGULATORY INFORMATION

Canadian regulations

Sulfuric acid
Listed on DSL Inventory (Domestic Substances List for Canada)
Listed on Canada's Ingredient Disclosure List

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

Copper sulfate
Listed on DSL Inventory (Domestic Substances List for Canada)
Listed on National Pollutant Release Inventory (limit 0.1%): no
Listed on National Pollutant Release Inventory (limit 1%):
7758-98-7: Copper sulphate
7758-99-8: pentahydrate version

International regulations

Copper Sulfate, Pentahydrate

CERCLA/SARA 313 Emission reporting Not Listed
California Proposition 65 Not Listed
Australia (AICS): Present
EU EINECS/ELINCS List Not Listed

Sulfuric acid

CERCLA/SARA 313 Emission reporting 1.0% **CERCLA/SARA Hazardous Substances 1000** lb. **and their Reportable Quantities:** 454 kg
CERCLA/SARA - Section 302 Extremely Hazardous TPQs 1000 lb.
CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs 1000 lb.
California Proposition 65 carcinogen initial date 3/14/03
Inventory - United States TSCA - Sect. 8(b) Present
REACH - Annex IV - Exemptions from the obligations of Register: Present
CERCLA/SARA 313 Emission reporting EU EINECS/ELINCS List 231-791-2
Australia (AICS): Present
Standard for the Uniform Scheduling for Drugs and Poisons: Schedule 6
EU EINECS/ELINCS List 231-639-5

Inorganic salt

CERCLA/SARA 313 Emission reporting Not Listed
California Proposition 65 Not Listed
Inventory - United States TSCA - Sect. 8(b) Present Australia (AICS): Present
EU EINECS/ELINCS List 231-820-9

CERCLA: The Comprehensive Environmental Response, Compensation and Liability Act of 1980
CERCLA was amended by the Superfund Amendments and Reauthorization Act (SARA) on October 17, 1986
EPCRA: Emergency Planning and Community Right-to-Know Act
EU EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances
AICS: Australian Inventory of Chemical Substances

16. OTHER INFORMATION

The information provided in this Safety Data Sheet is correct to the best of our knowledge and based on information of supplier.

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