SAM Nutrition
7500 Flying Cloud Drive, Suite 765
Eden Prairie, Minnesota 55344-3945
United States of America

Safety Data Sheet

Tribasic Copper Chloride

Revised: 05/14/2020
SDS Expiry Date: 04/14/2023

1) IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier

Chemical name	Tribasic Copper Chloride
CAS #	1332-40-7
Molecular Formula	$Cu_2(OH)_3Cl$

1.2. Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Relevant Identified Uses	Consult with manufacturer
Use Advised Against	Consult with manufacturer

1.3. Supplier Information of the Safety Data Sheet

Company	**SAM Nutrition** 7500 Flying Cloud Drive, Suite 765 Eden Prairie, MN 55344-3945 United States of America	**Telephone #** **Fax #** **Email**	+1 (952) 974-9174 +1 (952) 974-8183 info@samhprp.com

1.4. Emergency Contact Information

Emergency #	+1 (952) 974-9174

2) HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

GHS Hazard Class

Acute Toxicity – Oral	Category 4
Acute Toxicity – Inhalation	Category 4
Aquatic Environment – Short-Term (Acute) Hazard	Category 1
Hazardous to the Aquatic Environment – Long-Term (Chronic) Hazard	Categoy1

2.2. Label Elements

2.3. Unclassified Hazards/Hazards Not Otherwise Classified

Hazard Statements

H302	Harmful if swallowed
H332	Harmful if inhaled
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

Precautionary Statements

P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P264	Wash thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P271	Use only outdoors or in well ventilated area
P273	Avoid release to the environment
Response	
P312	Call a poison center/doctor, if needed
P330	Rinse mouth
P391	Collect spillage
P301 + P312	If swallowed, call a poison center/doctor, if feeling unwell
P301 + P340	If inhaled, remove person to fresh air and keep comfortable
Storage	Not Applicable
Disposal P501	Dispose contents/container in accordance with local/regional/national/international regulations

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3) COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Molecular formula	$Cu_2(OH)_3Cl$	**Weight Percentage**	≥ 98%
CAS-No.	1332-40-7		

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4) FIRST-AID MEASURES

4.1. Description of First-Aid Measures

General Advice	Immediately get medical attention. Show this safety data sheet (SDS) to the doctor in attendance.
If inhaled	Move victim into fresh air. If breathing is difficult, give oxygen. Do not mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.
In case of skin contact	Take off contaminated clothing and shoes immediately. Wash off with plenty of water for 15 minutes and consult a physician if feel uncomfortable.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult with a physician if feel uncomfortable.
If swallowed	Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or poison control immediately.
Protecting of first aiders	Ensure that medical personnel are aware of substance involved. Take precautions to protect themselves and prevent spread of contamination.

4.2. Important Systems and Effects, Both Acute and Delayed

Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposer.

4.3. Indication of any Immediate Medical Attention and Special Treatment Needed
Treat symptomatically
Symptoms may be delayed

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5) FIREFIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media	Dry chemical, carbon dioxide or alcohol-resistant foam.
Unsuitable Extinguishing Media	Do not use a solid water stream as it may scatter or spread fire.

5.2. Special Hazards Arising from the Substance or Mixture
Containers may explode when heated.
Fire exposed containers may vent contents through pressure relief valves.
May expansion or decompose explosively when heated or involved in fire.

5.3. Advice for Firefighters
As in any fire, wear self-contained breathing apparatus and full protective gear.
Fight fire from a safe distance, with adequate cover.
Prevent fire extinguishing water from contaminating surface water or the ground water system.

5.4. Further information
None.

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6) ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures
Ensure adequate ventilation. Remove all sources of ignition.
Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
Use personal protective equipment. Avoid breathing vapors, mist, gas, or dust.

6.2. Environmental Precautions
Prevent further leakage or spillage if safe to do so.
Discharge into the environment must be avoided.

6.3. Methods and Material for Containment and Cleaning Up
Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

6.4. Reference to Other Sections
None.

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7) HANDLING AND STORAGE

7.1. Precautions for Safe Handling
Handling is performed in a well-ventilated place.
Wear suitable protective equipment.
Avoid contact with skin and eyes.
Keep away from heat/sparks/open flames/hot surfaces.
Take precautionary measures against static discharges.

7.2. Conditions for Safe Storage

Keep containers tightly closed.
Keep containers in a dry, cool and well-ventilated place.
Keep away from heat/sparks/open flames/ hot surfaces.
Store away from incompatible materials and foodstuff containers.

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8) EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

Occupational Exposure Limit Values	No information available
Biological Limit Values	No information available
Monitoring Methods	EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. GBZ/T 160.1 ~ GBZ/T 160.81-2004 Determination of toxic substances in workplace air
Engineering Controls	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location. Use explosion-proof electrical/ventilating/lighting/equipment. Set up emergency exit and necessary risk-elimination area.

8.2. Exposure Controls

Eye/Face Protection	Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US)).
Hand Protection	Wear protective gloves (such as butyl rubber), passing the tests according to EN 374(EU), US F739 or AS/NZS 2161.1 standard.
Skin and Body Protection	Wear fire/flame resistant/retardant clothing and antistatic boots.
Respiratory Protection	If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.

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9) PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Appearance:	Green Powder	**Odor:**	No information available
Odor Threshold:	No information available	**pH:**	No information available

Melting point/Freezing point (°C):	140	**Initial Boiling Point and Boiling range (°C):**	No information available
Flash point (°C):	Not applicable	**Relative Vapor Density (Air = 1):**	Not applicable
Relative Density (Water = 1):	No information available	**Solubility:**	Insoluble in water
n-Octanol/water partition coefficient:	No information available	**Auto-Ignition Temperature (°C):**	No information available
Decomposition Temperature (°C):	No information available	**Kinematic Viscosity (mm^2/s):**	Not applicable
Particle Characteristics:	No information available		

9.2. Other Information
No data available

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10) STABILITY AND REACTIVITY

10.1. Reactivity
Contact with incompatible substances can cause decomposition or other chemical reactions.
10.2. Chemical Stability
Stable under proper operation and storage conditions.
10.3. Conditions to Avoid
Incompatible materials, heat, flame, and spark.
10.4. Incompatible Materials
No information available.
10.5. Hazardous Decomposition Products
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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11) TOXICOLOGICAL INFORMATION

11.1. Acute Toxicity
No information available
11.2. Skin Corrosion/Irritation
No data available
11.3. Serious Eye Damage/Irritation
No data available
11.4. Respiratory or Skin Sensitization
No data available
11.5. Germ Cell Mutagenicity
No data available
11.6. Carcinogenicity

ID	CAS No.	Component	IARC	NTP
1	1332-40-7	Copper chloride oxide, hydroxide	Not listed	Not listed

11.7. Reproductive Toxicity/Teratogenicity
No data available
11.8. Single Target Organ Toxicity – Single Exposure
No data available
11.9. Single Target Organ Toxicity – Repeated Exposure
No data available
11.10. Aspiration Hazard
No data available

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12) ECOLOGICAL INFROMATION

12.1. Acute Aquatic Toxicity

Component	CAS No.	Fish	Crustaceans	Algae
Copper Chloride oxide, hydrate	1332-40-7	LC_{50}: 1.36 MG/L	No information available	No information available

12.2. Chronic Aquatic Toxicity
No information available.

12.3. Persistence and Degradability
No data available.

12.4. Bio-accumulative Potential
No data available.

12.5. Results of PBT and vPvB assessment
Copper chloride oxide, hydrate does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.

12.6. Other Adverse Effects
No data available

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13) DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste Chemicals	Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.
Contaminated packaging	Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.

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14) TRANSPORT INFORMATION

Transporting Label

Marine pollutant	Yes
UN Number	3077
UN Proper Shipping Name	Environmentally Hazardous Substance
Transport Hazard Class	9
Transport Subsidiary Hazard Class	None

15) REGULATORY INFROMATION

15.1. Safety, Health and Environmental Regulations/ Legislation Specific for the Substance or Mixture
No data available.

15.2. International Chemical Inventory

Component	EINECS	TSCA	DSL	DSL	IECSC	NZIoC	PICCS	KECI	AICS	ENCS
Copper chloride oxide, hydrate	X	X	X	X	✓	✓	✓	✓	✓	X

16) OTHER INFORMATION

16.1. Further Information

The information conveyed in this Safety Data Sheet is only a representation of what SAM HPRP Chemicals, Inc. and doing business as SAM Nutrition has found to be accurate based on the current information that is available in regard to this compound. SAM Nutrition makes no warranty, expressed or implied, with respect to such information, and therefore assumes no liability resulting from product usage. It is strongly recommended that users of this product perform their own investigations to determine the accuracy and suitability of the information for their specific purposes. In no way will SAM Nutrition assume liability for any claims, losses, damages to any third party, any lost profits or any special, indirect, incidental, consequential or exemplary damages that may arise, even if SAM Nutrition has been advised of the possibility of such damages.