SAFETY DATA SHEET

Tribasic Copper Chloride(Minexo C) SDS

Hunan Debon Bio-tech Co., Ltd.

- According to EU Regulation No. 1907/2006

Section 1 Identification of the Substance/Mixture and of the Company/Undertaking

> Product Identifier

Product Name	Tribasic Copper Chloride(Minexo C)
Synonyms	-
CAS No.	1332-65-6
EC No.	215-572-9
Molecular Formula	$Cu_2Cl.(OH)_3$
REACH Registration No.	-

> Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Relevant Identified Uses	Adding into animal feed to supply trace mineral
Uses Advised Against	Please consult manufacturer.

> Details of the Supplier of the Safety Data Sheet

Applicant Name	Hunan Debon Bio-tech Co., Ltd.
Application Address	Xinyuan RD, Shuikoushan Economic Dvpt. Zone, Changning, Hengyang City, Hunan, CN
Applicant Post Code	——
Applicant Telephone	+86-21-54858676
Applicant Fax	——
Applicant E-mail	export@debongroup.com
Supplier Name	Hunan Debon Bio-tech Co., Ltd.
Supplier Address	Xinyuan RD, Shuikoushan Economic Dvpt. Zone, Changning, Hengyang City, Hunan, CN
Supplier Post Code	——
Supplier Telephone	+86-21-54858676
Supplier Fax	——
Supplier E-mail	export@debongroup.com

> Emergency Phone Number

Emergency Phone Number	+86-21-54858676

Section 2 Hazards Identification

Hazard class and label elements of the product according to Regulation (EC) No 1272/2008 [CLP]:

> Classification of the Substance or Mixture

Acute Toxicity – Oral	Category 3
Acute Toxicity – Inhalation	Category 4
Hazardous To The Aquatic Environment – Short-Term (Acute) Hazard	Category 1
Hazardous To The Aquatic Environment – Long-Term (Chronic) Hazard	Category 1

> Label Elements

Pictogram

Signal Word **Danger**

> Hazard Statements

H301	Toxic if swallowed
H332	Harmful if inhaled
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

> Precautionary Statements

Prevention

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash contact area thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.

Response

P312	Call a POISON CENTER/doctor,if you feel unwell.
P330	Rinse mouth.
P391	Collect spillage.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Storage

P405	Store locked up.

Disposal

P501	Dispose of contents/container in accordance with local/regional/national/ international regulations.

> Other hazards

Not applicable

Section 3 Composition/Information on Ingredients

Component	CAS No.	EC No.	Index No.	Hazard classification according to CLP	Concentration (weight percent, %)
Tribasic Copper Chloride	1332-65-6	-	-	Acute Toxicity – Oral, Category 3, H301; Acute Toxicity – Inhalation, Category 4, H332; Hazardous To The Aquatic Environment – Short-Term (Acute) Hazard, Category 1, H400; Hazardous To The Aquatic Environment – Long-Term (Chronic) Hazard, Category 1, H410;	98

Section 4 First Aid Measures

> Description of First Aid Measures

General Advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Skin Contact	Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Ingestion	Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
Inhalation	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately. Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.
Protecting of First-aiders	

> Most Important Symptoms and Effects, both Acute and Delayed

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

> Indication of Any Immediate Medical Attention and Special Treatment Needed

1 Treat symptomatically.

2 Symptoms may be delayed.

Section 5 Fire Fighting Measures

> 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.

> Specific Hazards Arising from the Substance or Mixture

1 May emit poisonous fumes on fire.

2 Containers may explode when heated.

3 Fire exposed containers may vent contents through pressure relief valves. **4** May expansion or decompose explosively when heated or involved in fire.

> Advice for Firefighters

1 As in any fire, wear self-contained breathing apparatus （MSHA/NIOSH approved or equivalent)and full protective gear.

2 Fight fire from a safe distance, with adequate cover.

3 Prevent fire extinguishing water from contaminating surface water or the ground water system.

Section 6 Accidental Release Measure

> Personal Precautions, Protective Equipment and Emergency Procedures

1 Ensure adequate ventilation. Remove all sources of ignition.

2 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. **3** Use personal protective equipment. Avoid breathing vapours, mist, gas or dust.

> Environmental Precautions

1 Prevent further leakage or spillage if safe to do so.

2 Discharge into the environment must be avoided.

> Methods and Materials for Containment and Cleaning Up

1 Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.

2 Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

3 Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

Section 7 Handling and Storage

> Precautions for Handling

Protective Measures

1 Handling is performed in a well ventilated place.

2 Wear suitable protective equipment.

3 Avoid contact with skin and eyes.

Measures to Prevent Fire

1 Take precautionary measures against static discharges.

2 Keep away from heat/sparks/open flames/ hot surfaces.

Measures to Prevent Aerosol and Dust Generation

1 Avoid formation of dust and aerosols.

2 Provide appropriate exhaust ventilation at places where dust is formed.

Advice on General Occupational Hygiene

1 Wash hands and face after using of the substances.

2 Replace the contaminated clothing immediately.

> Precautions for Storage

1 Keep containers tightly closed .

2 Keep containers in a dry, cool and well-ventilated place.

3 Keep away from heat/sparks/open flames/ hot surfaces.

4 Store away from incompatible materials and foodstuff containers.

> Specific End Use(s)

1 In addition to use mentioned in the first part, no other specific end uses.

Section 8 Exposure Controls/Personal Protection

> Control Parameters

Occupational Exposure Limit Values

No information available

Biological Limit Values

No information available

Monitoring Methods

1 EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

2 GBZ/T 160 Determination of toxic substances in workplace air(Series effective standard)and GBZ/T 300 Determination of toxic substances in workplace air(Series standard).

Derived No Effect Level (DNEL)

Component	Route of exposure	DNEL for Workers			
		Acute Effects(local)	Acute Effects(systemic)	Chronic Effects(local)	Chronic Effects(systemic)
Tribasic Copper Chloride 1332-65-6	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available

Predicted No Effect Concentration（PNEC）

No information available

> Engineering Controls

1 Ensure adequate ventilation, especially in confined areas.

2 Ensure that eyewash stations and safety showers are close to the workstation location.

3 Use explosion-proof electrical/ventilating/lighting/equipment.

4 Set up emergency exit and necessary risk-elimination area.

> Personal Protection Equipment

Eye 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.
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.
Skin and Body Protection	Wear fire/flame resistant/retardant clothing and antistatic boots.

Section 9 Physical and Chemical Properties

Appearance: Dark green powder

Odor Threshold: No information available

Melting Point/Freezing Point (℃): 140

Flash Point (℃)(Closed Cup): Not applicable

Flammability: No information available

Vapor Pressure (KPa): Not applicable

Relative Density(Water=1): No information available

n-Octanol/Water Partition Coefficient: No information available

Decomposition Temperature (℃): No information available

Odor: No information available

pH: No information available

Initial Boiling Point and Boiling Range (℃): No information available

Evaporation Rate: Not applicable

Upper/lower explosive limits[%(v/v)]: Upper limit： No information available ； Lower limit ： No information available

Relative Vapour Density(Air＝1): Not applicable

Solubility: Insoluble in water

Auto-ignition Temperature(℃): No information available

Kinematic Viscosity (mm_2/s): Not applicable

Section 10 Stability and Reactivity

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

Section 11 Toxicological Information

> Acute Toxicity

No information available

> Skin Corrosion/Irritation

No information available

> Serious Eye Damage/Irritation

No information available

> Skin Sensitization

No information available

> Respiratory Sensitization

No information available

> Germ Cell Mutagenicity

No information available

> Carcinogenicity

ID	CAS No.	Component	IARC	NTP
1	1332-65-6	Tribasic Copper Chloride	Not Listed	Not Listed

> Reproductive Toxicity

No information available

> Reproductive Toxicity (Additional)

No information available

> STOT-Single Exposure

No information available

> STOT-Repeated Exposure

No information available

> Aspiration Hazard

No information available

Section 12 Ecological Information

> Acute Aquatic Toxicity

Component	CAS No.	Fish	Crustaceans	Algae
Tribasic Copper Chloride	1332-65-6	LC_{50}：1.36mg/L (96h)(Fish)	No information available	No information available

> Chronic Aquatic Toxicity

No information available

> Others

Persistence and Degradability No information available

Bioaccumulative Potential No information available

Mobility in Soil	No information available
Results of PBT and vPvB Assessment	Tribasic Copper Chloride does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.

Section 13 Disposal Considerations

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.
Disposal Recommendations	Refer to section 13.1and 13.2.

Section 14 Transport Information

Transporting Label

Marine pollutant	Yes
UN Number	3077
UN Proper Shipping Name	TOXIC SOLID, INORGANIC, N.O.S.
Transport Hazard Class	9
Transport Subsidiary Hazard Class	NONE
Packing Group	Ⅲ

Section 15 Regulatory Information

> International Chemical Inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS	ENCS
Tribasic Copper Chloride	√	√	√	√	√	√	√	√	×

【EINECS】 European Inventory of Existing Commercial Chemical Substances.
【TSCA】 United States Toxic Substances Control Act Inventory.
【DSL】 Canadian Domestic Substances List.
【IECSC】 China Inventory of Existing Chemical Substances.
【NZIoC】 New Zealand Inventory of Chemicals.
【PICCS】 Philippines Inventory of Chemicals and Chemical Substances.
【KECI】 Existing and Evaluated Chemical Substances.
【AICS】 Australia Inventory of Chemical Substances.
【ENCS】 Existing And New Chemical Substances.

> European Chemical Inventory

Component	A	B	C	D	E	F	G
Tribasic Copper	×	×	×	√	√	×	×

Chloride							

【A】 Candidate list of Substances of Very High Concern for authorization under EU REACH regulation 【B】 Substances requiring authorisation under EU REACH regulation 【C】 Substances restricted under EU REACH

【D】 Pre-registered substances under EU REACH

【E】 Registered substances under EU REACH

【F】 Substance Evaluation – CoRAP under EU REACH

【G】 List of priority substances under EU water policy （Directive 2455/2001/EC）

Note

"√" Indicates that the substance included in the regulations "×"

That no data or included in the regulations

Section 16 Additional Information

Creation Date	2023/08/28
Revision Date	
Reason for Revision	-

> Disclaimer

This Safety Data Sheet (SDS) was prepared according to REACh Regulation The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.