



## MATERIAL SAFETY DATA SHEET SDS/MSDS

### SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1

#### Product identifiers

Product name : Copper (II) Acetate

CAS-No. : 6046-93-1

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Industrial & for professional use only.

#### 1.3 Details of the supplier of the safety data sheet

Company : Bio-Chem Chemicals  
5455 Nicholson Road, Science Market  
Ambala Cantt, 133001 - Haryana  
+91 82952 41953 info@biofinechemical.com -  
www.biofinechemical.com

#### 1.4 Emergency telephone number

Emergency Phone # : +91 99921 51495 (10.00am - 06.30pm) (Office Hours)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Acute toxicity, Oral (Category 4), H302 Skin corrosion (Category 1B), H314 Acute aquatic toxicity (Category 1), H400 Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Xn	Harmful	R22
C	Corrosive	R34
N	Dangerous for the environment	R50/53

For the full text of the R-phrases mentioned in this Section, see Section 16.

#### 2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word

Danger

Hazard statement(s) H302 H314 H410  
 Precautionary statement(s) Harmful if swallowed.  
 P273 Causes severe skin burns and eye damage.  
 P280 P305 + P351 + P338 Very toxic to aquatic life with long lasting effects.  
 P310 P501  
 Supplemental Hazard Avoid release to the environment.  
 Statements Wear protective gloves/ protective clothing/ eye protection/ face protection.  
 Other hazards IF IN EYES: Rinse cautiously with water for several minutes.  
 This substance/mixture contains no components considered persistent, bioaccumulative and toxic (PBT), or very persistent/bioaccumulative (VPOB) at levels of 0.1% or higher.  
 Immediate oral POISON (GHS) level of 0.1% or higher.  
 Dispose of contents/ container to an approved waste disposal plant. none

## 2.3

### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

Synonyms Formula : Cupric acetate monohydrate  
 Molecular weight :  $C_4H_6CuO_4 \cdot H_2O$   
 CAS-No. : 199,65 g/mol  
 EC-No. : 6046-93-1  
 Hazardous ingredients according to Regulation (EC) No 1272/2008 : 205-553-3

Component		Classification	Concentration
Copper di(acetate)			
CAS-No.	6046-93-1	Acute Tox. 4; Skin Corr. 1B;	<= 100 %
EC-No.	205-553-3	Aquatic Acute 1; Aquatic Chronic 1; H302, H314, H410	
Hazardous ingredients according to Directive 1999/45/EC			
Component		Classification	Concentration
Copper di(acetate)			
CAS-No.	6046-93-1	C, N, R22 - R34 - R50/53	<= 100 %
EC-No.	205-553-3		

For the full text of the H-Statements and R-Phrases mentioned in this Section, see Section

### 16 SECTION 4: First aid measures

#### 4.1 Description of first aid measures

##### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

##### If inhaled

physician. In case of skin contact

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

##### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or

mixture Carbon oxides, Copper oxides

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): Non-combustible, corrosive hazardous materials

7.3 Specific end use(s)

SECTION 8: Exposure controls/personal protection Apart from the uses mentioned in section 1, 2 no other specific uses are stipulated

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## Personal protective equipment

### Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

### Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

a) Appearance	Form: solid Colour: greenish-blue
b) Odour	odourless
c) Odour Threshold	No data available
d) pH	5,2 - 5,5 at 20 g/l at 20 °C
e) Melting point/freezing point	Melting point/range: 115 °C
f) Initial boiling point and boiling range	No data available
g) Flash point	No data available
h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapour pressure	No data available
l) Vapour density	No data available
m) Relative density	1,882 g/cm <sup>3</sup> at 20 °C
n) Water solubility	70 g/l at 20 °C - soluble
o) Partition coefficient: n-octanol/water	No data available
p) Auto-ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available

- s) Explosive properties      No data available
- t) Oxidizing properties      No data available

## 9.2 Other safety information

Bulk density      1.000 kg/m<sup>3</sup>

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

No data available

### 10.5 Incompatible materials

Oxidizing agents

### 10.6 Hazardous decomposition products

Other decomposition products - No data available

In the event of fire: see section 5

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - > 300 - < 2.000 mg/kg  
(Fixed Dose Method)

LD50 Dermal - Rat - > 2.000 mg/kg  
(OECD Test Guideline 402)

Skin corrosion/irritation

Skin - EPISKIN Human Skin Model Test  
Result: Causes burns.  
(OECD Test Guideline 431)

Serious eye damage/eye irritation

Eyes - Rabbit  
Result: Risk of serious damage to eyes.  
(OECD Test Guideline 405)

Respiratory or skin sensitisation

Maximisation Test (GPMT) - Guinea pig  
Does not cause skin sensitisation.  
(OECD Test Guideline 406)

Remarks: No data available

Germ cell mutagenicity

No data available

IARC: No component of this product present at levels greater than or equal to 0.1% is identified  
Carcinogenicity as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

#### Additional Information

RTECS: AG3500000

Symptoms of systemic copper poisoning may include: capillary damage, headache, cold sweat, weak pulse, and kidney and liver damage, central nervous system excitation followed by depression, jaundice, convulsions, paralysis, and coma. Death may occur from shock or renal failure. Chronic copper poisoning is typified by hepatic cirrhosis, brain damage and demyelination, kidney defects, and copper deposition in the cornea as exemplified by humans with Wilson's disease. It has also been reported that copper poisoning has lead to hemolytic anemia and accelerates arteriosclerosis., Cough, Shortness of breath, Headache, Nausea, Vomiting, Gastrointestinal disturbance, Blood disorders, Liver injury may occur., Damage to the lungs.

### SECTION 12: Ecological information

#### 12.1 Toxicity

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 0,39 mg/l - 96,0 h

#### 12.2 Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

#### 12.3 Bioaccumulative potential

No data available

#### 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### 12.6 Other adverse effects

Very toxic to aquatic life with long lasting effects.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

##### Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

##### Contaminated packaging

Dispose of as unused product.

### SECTION 14: Transport information

#### 14.1 UN number

ADR/RID: 1759

IMDG: 1759

IATA: 1759

#### 14.2 UN proper shipping name

ADR/RID: CORROSIVE SOLID, N.O.S. (Copper di(acetate))

IMDG: CORROSIVE SOLID, N.O.S. (Copper di(acetate))

IATA: Corrosive solid, n.o.s. (Copper di(acetate))

#### 14.3 Transport hazard class(es)

ADR/RID: 8

IMDG: 8

IATA: 8

#### 14.4 Packaging group

ADR/RID: II

IMDG: II

IATA: II

#### 14.5 Environmental hazards

ADR/RID: yes

IMDG Marine pollutant: yes

IATA: no

#### 14.6 Special precautions for user

No data available

## SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available

### 15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

## SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

Acute	Tox.	Acute toxicity
Aquatic	Acute	Acute aquatic toxicity
Aquatic	Chronic	Chronic aquatic toxicity
H302	H314	Harmful if swallowed.
H400	H410	Causes severe skin burns and eye damage.
Corr.	Skin	Very toxic to aquatic life.
		Very toxic to aquatic life with long lasting effects.
		Skin corrosion

Full text of R-phrases referred to under sections 2 and 3

C	N	Corrosive
R22		Dangerous for the environment
R34		Harmful if swallowed.
R50/53		Causes burns.
		Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Bio-Chem Chemicals and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.biofinechemical.com](http://www.biofinechemical.com) for additional terms and conditions of sale.