



WEST BENGAL CHEMICAL INDUSTRIES LIMITED

145/1, Jessore Road, Lake Town,

Kolkata – 700 089, India.

Phone: +9133 4025 1700 Fax: +9133 2574 7410

Email: [webcil@webcil.com](mailto:webcil@webcil.com)

Website: [www.webcil.com](http://www.webcil.com)

## Section 1 - Chemical Product and Company Identification

**MSDS Name:** Copper Citrate

**Product Code:** CPCNL24

**Company Identification:**

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**Emergency Telephone No.:** +91 9874356081

## Section 2 - Composition / Information on Ingredients

Ingredient Name	Molecular Formula	% wt	Molecular Wt.	CAS No.
Copper Citrate	$C_6H_8CuO_7$	100	255.67 g/mol	10402-15-0

## Section 3 - Hazards Identification

**Classification of the substance or mixture:**

Skin irritation (Category 2).(H315)

Eye irritation (Category 2).(H319)

Specific target organ toxicity - single exposure (Category 3) (H335)

Germ cell mutagenicity (Category 2), (H341)

Classification according to EU Directives 67/548/EEC

**Ingredient**

**Classification**

**Copper Citrate**

Xn Harmful R36/37/38

### Label elements

#### Hazard statements

H 315

Causes skin irritation.

H 319

Causes serious eye irritation.

H 335

May cause respiratory irritation.

#### Precautionary statements

P 261

Avoid breathing dust /fume /gas /mist /vapors /spray.

P 305 + P 351 + P 338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### Hazard symbols

Xi

Irritant

#### R-phrases

R 36 / 37 / 38

Irritating to eyes, respiratory system and skin.





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### Section 3 - Hazards Identification

**Chemical Name** : Copper Citrate  
**CAS Number** : 866-82-0  
**EC Number** : 212-752-9  
**Molecular Formula** :  $C_6H_8Cu_2O_7+4$   
**Molecular Weight** : 319.22 g/mol  
**H302 Harmful if swallowed.** Very toxic to aquatic life

**H400 (84.62%)**

**H410 (82.69%)**

Acute Tox. 4 (100%)

Aquatic Acute 1 (84.62%)

Aquatic Chronic 1 (82.69%)

Precautionary statement(s) Prevention

P271 Use only outdoors or in a well-ventilated area.

P261 Avoid breathing dust/fumes.

P264 Wash all exposed external body areas thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P280 Wear protective gloves, protective clothing, eye protection and face protection.

Precautionary statement(s) Response

**P305+P351+P338 IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**P337+P313 If eye irritation persists:** Get medical advice/attention.

P391 Collect spillage.

**P301+P312 IF SWALLOWED:** Call a POISON

CENTER/doctor/physician/first aider if you feel unwell.

**P302+P352 IF ON SKIN:** Wash with plenty of water and soap.

**P304+P340 IF INHALED:** Remove

Very toxic to aquatic life with long lasting effects.

person to fresh air and keep comfortable for breathing.

P330 Rinse mouth.

**P301+P317:** IF SWALLOWED: Get medical help.

**P332+P313 If skin irritation occurs:** Get medical



NFPA Scale (0-4)

Health	1
Flammability	0
Physical Hazard	0
Personal protection	G

HMIS RATINGS (0-4)





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### Section 3 - Hazards Identification

advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.



### Section 4 - First Aid Measures

**Eye Contact:**

Flush eyes with large amounts of water for fifteen minutes. Separate eyelids with fingers. If irritation persists, seek medical attention.

**Skin Contact:**

Wash skin with soap and water. If irritation persists, seek medical attention.

**Ingestion:**

Do not induce vomiting. Seek medical attention.

**Inhalation:**

Move to a fresh air environment. Contact a physician if breathing becomes difficult.

Lay patient down. Keep warm and rested.

Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.

Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.

Transport to hospital, or doctor, without delay.

### Section 5 - Fire-Fighting Measures

**Flash Point:**

Not Available

**Explosion Limits:**

Lower: Not Available

Upper: Not Available

**Auto Ignition Temperature:**

Not Available

**Extinguishing Media:**

Carbon dioxide, dry chemical powder, alcohol-





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### Section 5 - Fire-Fighting Measures

resistant foam or water spray.

**Protective Equipment:**

Wear self-contained respirator and fully protective impervious suit.

**Specific Hazards:**

May emit hazardous fumes under fire conditions.

### Section 6 - Accidental Release Measures

**Personal Protection:**

Wear a self-contained breathing apparatus, rubber boots and gloves, and disposable coveralls. Dispose of coveralls after use.

**Environmental Protection:**

Keep unprotected persons away.  
Keep spills out of sewers and bodies of water. Dike and contain the spill with inert material. Absorb on sand, vermiculite or diatomite. Transfer material to a container for disposal or recovery. Ventilate area and wash spill site after material pickup is complete.

### Section 7 - Handling and Storage

**Handling:**

Avoid breathing dust, vapor, mist or gas. Avoid contact with skin and eyes. Avoid prolonged or repeated exposure. Use only in a chemical fume hood. Open and handle container with care. Keep ignition sources away.

**Storage:**

Store in a tightly closed container in a dry, well-ventilated place.

**Sensitivities:**

Not Available

**Storage Temperature:**

Not exceeding 25°C

### Section 8 - Exposure Controls / Personal Protection

**Personal protective equipment**

**Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator made in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.





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## Section 8 - Exposure Controls / Personal Protection

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).

### Hand protection

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard derived from it. Handle with gloves.

### Eye protection

Check for and remove any contact lenses. Do not use an eye ointment. Seek medical attention..

### Skin and body protection

After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap.

Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention.

## Section 9 - Physical and Chemical Properties

Appearance Form	:	Blue color powder
Color	:	Blue
Odour	:	no data available
pH	:	2.0 – 5.0
Melting point/freezing point	:	no data available
Initial boiling point and boiling range	:	100 °C
Sublimation Temperature:	:	no data available
Density:	:	no data available
Vapour pressure at 20 °C	:	23 hPa
Vapour density	:	The highest known value is 0.62 (Air = 1) (Water).
Refractive Index	:	no data available
Decomposition temperature	:	no data available
Viscosity	:	no data available
Initial boiling point and boiling range	:	100 °C
Flash point	:	> 93 °C
Freezing/Melting Point	:	>300°C

Other safety information  
no data available





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## Section 10 - Stability and Reactivity

<b>Stability</b>	:	Stable under normal temperatures and pressures.
<b>Incompatibility</b>	:	Strong oxidizing agents.
<b>Conditions to Avoid</b>	:	Heat, Flame, Sparks, Other ignition sources.
<b>Hazardous Decomposition Products</b>	:	Carbon oxides, Copper oxides.

## Section 11 - Toxicological Information

<b>Skin corrosion/irritation</b>	No data available.
<b>Serious eye damage/eye irritation</b>	No data available.
<b>Respiratory or skin sensitization</b>	No data available.
<b>Germ cell mutagenicity</b>	No data available.
<b>Carcinogenicity</b>	No data available.
<b>Reproductive toxicity</b>	No data available.
<b>Specific target organ toxicity - single exposure</b>	Inhalation - May cause respiratory irritation.
<b>Specific target organ toxicity - repeated exposure</b>	<b>Eyes:</b> Dust may cause eye irritation. <b>Ingestion:</b> May cause gastrointestinal tract irritation, with nausea, vomiting and diarrhea if heavy ingestion is done.
<b>Aspiration hazard</b>	No data available.
<b>Potential health effects</b>	No data available.
<b>Inhalation</b>	Dust may cause respiratory tract irritation.
<b>Ingestion</b>	May cause gastrointestinal tract irritation. The toxicological properties of this substance have not fully investigated.
<b>Skin</b>	May cause skin irritation.
<b>Eyes</b>	Dust may create eye irritation.
<b>Signs and Symptoms of Exposure</b>	Inhalation, Ingestion, Skin etc.
<b>TOXICITY IRRITATION Oral (Rat) LD50</b>	1580 mg/kg
<b>ATE (Acute Toxicity Estimates)</b>	Oral LD50 9,604 mg/kg





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## Section 12 - Ecological Information

<b>Toxicity:</b>	: No data available
<b>Persistence and degradability:</b>	: No data available
<b>Bioaccumulative potential:</b>	: No data available
<b>Mobility in soil</b>	: No data available
<b>PBT and vPvB assessment:</b>	No data available
<b>Other adverse effects:</b>	No data available

## Section 13 - Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

Contaminated packaging: Dispose of as unused product.

## Section 14 - Transport Information

<b>DOT Classification</b>	Not a DOT controlled material
<b>Air transport Goods</b>	Nonhazardous/non-dangerous as per IATA DGR.
<b>Special Provisions for Transport</b>	Not applicable.
<b>IATA Specification</b>	Non-dangerous, non-hazardous.
<b>DOT (Pictograms)</b>	





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## Section 15 - Regulatory Information

### United States:

Toxic Substance Control Act (TSCA): Not listed

Superfund Amendments and Reauthorization Act (SARA 302): Not listed Superfund

Amendments and Reauthorization Act (SARA 311/312): Not listed Superfund

Amendments and Reauthorization Act (SARA 313): Not listed

### European Union:

European Inventory of Existing Chemical Substances (EINECS): Not Available

Hazard Codes: Not Available

Risk Statements: Not Available

Safety Statements: Not Available

### Canada

Canadian Domestic Substances List (DSL): Not listed Canadian

Non-Domestic Substances List (NDSL): Not listed

## Section 16 - Other Information

**Disclaimer:** This material safety data sheet is provided as an information resource only. WEST BENGAL CHEMICAL INDUSTRIES LIMITED believes the information contained herein is accurate and compiled from reliable sources. It is the responsibility of the user to verify its validity. The buyer assumes all responsibility of using and handling the product in accordance with federal, state, and local regulations.

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