



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

## Section 1 - Chemical Product and Company Identification

**MSDS Name:** Copper Propionate

**Product Code:** CPR3032

**Company Identification:**

WEST BENGAL CHEMICAL INDUSTRIES LIMITED

145/1, Jessore Road, Lake Town,

Kolkata – 700 089, India.

Phone: +91 33 4025 1700

Fax: +91 33 2574 7410

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

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

Emergency Telephone No.: +91 9874356081

## Section 2 - Composition / Information on Ingredients

<b>Chemical Name</b>	:	Copper propionate
<b>Synonyms</b>	:	Copper (II) propionate
<b>CAS Number</b>	:	3112-74-1
<b>MDL Number</b>	:	MFCD00054412
<b>EINECS Number</b>	:	Not Available
<b>Molecular Formula</b>	:	C <sub>6</sub> H <sub>10</sub> CuO <sub>4</sub>
<b>Molecular Weight</b>	:	209.69 g/mol
<b>Content</b>	:	30%- 32% w/w (as Copper)

## Section 3 - Hazards Identification

**Statements of Hazard:** Irritant

**Acute Health Hazard:** Irritant to eyes, skin, mucous membranes and respiratory system. May be harmful by ingestion, inhalation or skin absorption.

**Chronic Health Hazard:** Not Available

To the best of our knowledge, the toxicological properties of this chemical have not been thoroughly investigated. Use appropriate procedures and precautions to prevent or minimize exposure.

**Signal Word:** Warning

**Hazard Statement(s):** H302

**Harmful if swallowed.**

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H320 Causes eye irritation.

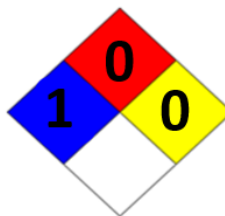
H332 Harmful if inhaled.

H335 May cause respiratory irritation.

**Precautionary Statement(s):**

P261 Avoid breathing dust/ fume/ gas/ mist/vapors/ spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.



NFPA SCALE (0-4)



Health	1
Flammability	0
Physical Hazard	0
Personal protection	E

HMIS RATINGS (0-4)



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@wbcil.com](mailto:webcil@wbcil.com)

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

### Section 3 - Hazards Identification

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

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

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

P332+P313 If skin irritation occurs: Get medical advice/ attention.

### 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.

### 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- 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. Keep unprotected persons away.
Environmental Protection:	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.



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@wbcil.com](mailto:webcil@wbcil.com)

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

## 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:	15 – 30 °C

## Section 8 - Exposure Controls / Personal Protection

Eyes:	Wear appropriate protective eyeglass or chemical safety goggles. Make sure that there is an eyewash facility in your vicinity.			
Skin:	Wear impervious gloves and protective clothing.			
Respiratory:	Use a NIOSH approved respirator when exposure limits are exceeded or if irritation or other symptoms are experienced.			
Exposure Limits:	Country	Source	Type	Value
	USA	ACGIH	TWA	Not Available
	USA	OSHA	STEL	Not Available
	USA	OSHA	PEL	Not Available

## Section 9 - Physical and Chemical Properties

<b>Appearance Form</b>		
<b>Form</b>	:	Powder
<b>Color</b>	:	Green
<b>Odour</b>	:	no data available
<b>pH</b>	:	4.5 – 6.0
<b>Melting point/freezing point</b>	:	no data available
<b>Initial boiling point and boiling range</b>	:	no data available
<b>Sublimation Temperature:</b>	:	no data available
<b>Density:</b>	:	no data available
<b>Vapour pressure</b>	:	no data available
<b>Vapour density</b>	:	no data available
<b>Refractive Index</b>	:	no data available
<b>Water solubility</b>	:	Soluble in water with slight opalescence.
<b>Decomposition temperature</b>	:	no data available
<b>Viscosity</b>	:	no data available
<b>Other safety information</b>		
no data available		



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@wbcil.com](mailto:webcil@wbcil.com)

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

## Section 10 - Stability and Reactivity

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

## Section 11 - Toxicological Information

RTECS Reference	: no data available
Target Organs:	: no data available
Toxicity Data:	: <b>ACUTE TOXICITY</b> : Calcium D, L, Methyltetrahydrofolate: <b>Oral: Rat: LD50:</b> (mg/kg): > 2000 <b>Dermal: Rat LD50:</b> (mg/kg): > 2000 <b>Inhalation: Rat: LC50:</b> (mg/L/4hr): Not available.
Skin corrosion/irritation:	: L-Methyl Folate Calcium is <b>not classified</b> as a skin irritant based on available animal studies and regulatory reviews. No significant irritation was observed following dermal exposure.
Serious eye irritation:	: It is also <b>not classified</b> as an eye irritant. No ocular irritation was reported in studies where the compound was administered to animals.
Skin Sensitization:	: It is also <b>not classified</b> as an eye irritant. No ocular irritation was reported in studies where the compound was administered to animals.
Sub-chronic Toxicity (28-day study, rat):	: No significant toxic effects were observed at doses up to <b>400 mg/kg body weight</b> per day
Developmental Toxicity:	: No adverse effects on fetal development were observed at doses up to <b>1000 mg/kg body weight</b> per day, suggesting that L-Methyl Folate Calcium is <b>not developmentally toxic</b>
Carcinogenicity:	: No evidence of carcinogenicity has been reported for L-Methyl Folate Calcium. It is not classified as a carcinogen by any major regulatory agency.



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@wbcil.com](mailto:webcil@wbcil.com)

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

## Section 11 - Toxicological Information

<b>LD<sub>50</sub> rat oral</b>	:	700 mg/kg
<b>LD<sub>50</sub> mouse oral</b>	:	43-1500 mg/kg
<b>LD<sub>50</sub> fish</b>	:	0.01 to 0.1 mg/L
<b>Reproductive Toxicity</b>	:	Reproductive toxicity studies did not show any negative impacts on fertility or reproductive function in animals at the same dose levels
<b>Genotoxicity and Mutagenicity</b>	:	L-Methyl Folate Calcium is <b>non-mutagenic</b> in the <b>Ames test</b> and did not induce <b>genotoxicity</b> in the <b>micronucleus assay</b> . Additionally, it showed no evidence of <b>chromosomal aberrations</b> or <b>DNA damage</b> in other tests. Therefore, L-Methyl Folate Calcium is considered <b>non-genotoxic</b> .
<b>Chronic Toxicity</b>	:	There is no evidence of <b>chronic toxicity</b> associated with L-Methyl Folate Calcium at the recommended levels of use, including those found in infant formulas and dietary supplements. <b>Long-term human exposure</b> is considered safe with no observed adverse effects at typical intake levels. The <b>Safety Margin</b> for L-Methyl Folate Calcium is wide, and no adverse effects have been observed at doses that exceed the <b>normal human exposure levels</b> by a significant margin.
<b>Estimated Intake from Supplements/Food Products</b>	:	Typical intake levels from fortified foods and supplements are <b>7.2 to 30.1 µg/kg body weight per day</b> , which is well below any known toxic thresholds
<b>Regulatory Status and Classification</b>	:	L-Methyl Folate Calcium is <b>GRAS (Generally Recognized As Safe)</b> for use in food and supplements by the <b>FDA</b> . The <b>EFSA</b> has also confirmed its safety in infant formulas. Under <b>EU CLP regulations</b> , it is classified as <b>non-hazardous</b> and does not require special hazard labeling.
<b>Specific Target Organ Toxicity (STOT)</b>	:	No evidence of specific target organ toxicity.



## Section 11 - Toxicological Information

**Endocrine Disruption** : No endocrine-disrupting effects have been noted in available studies.

## Section 12 - Ecological Information

**Persistence and degradability** : Copper propionate is not biodegradable and persists in the environment, particularly as stable copper ions.

**Bioaccumulative potential:** : Copper can accumulate in aquatic organisms, particularly in the liver and kidneys, over time.

**Acute Toxicity** : **LD<sub>50</sub> fish:** 0.01 to 0.1 mg/L.

**Mobility in soil** : Copper binds to soil particles but may become mobile in acidic conditions, potentially leaching into groundwater.

**PBT and vPvB assessment:** : No data available

**Other effects:** : **Terrestrial Impact:** Toxic to plants and soil organisms at high concentrations.

**Ozone Layer:** No risk to the ozone layer.

**EC<sub>50</sub> algae** : 0.05 0.1 mg/L

**Decomposition Products** : Decomposes to copper oxide (CuO) and carbon oxides (CO<sub>2</sub>, CO) when heated

## Section 13 - Disposal Considerations

**Disposal methods:**

Refer to local government authority for disposal recommendations. Dispose of contents/container in accordance with Local/regional/national/international regulations.





WEST BENGAL CHEMICAL INDUSTRIES LIMITED  
145/1, Jessore Road, Lake Town,  
Kolkata – 700 089, India.  
Phone: +9133 4025 1700 Fax: +9133 2574 7410  
Email: [wbcil@wbcil.com](mailto:wbcil@wbcil.com) Website: [www.wbcil.com](http://www.wbcil.com)

## Section 14 - Transport Information

**DOT Classification** Not a DOT controlled material  
**Air transport Goods** Nonhazardous/non dangerous as per IATA DGR.  
**Special Provisions for Transport** Not applicable.  
**IATA Specification** Non-dangerous, non-hazardous.  
**DOT (Pictograms)**  
AS PER IATA REGULATION SAFE FOR CARRAGE, NON-HAZARDOUS AND NON-RESTRICTED.  
NO SPECIAL LABELLING OR TRANSPORT MEASURE HAVE BEEN IDENTIFIED.  
THIS IS NOT REGULATED AS PER IATA REGULATION



## 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. BENGAL CHEMICAL INDUSTRIES LIMITED believes the information contained herein is accurate and compiled from reliable sources. It is the 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.

**Issue Date: March, 2023**

**Revision Date: February, 2025**

**Revision No.: 04**