

# SREENIVASA INDUSTRIES

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## MATERIAL SAFETY DATA SHEET

**PRODUCT NAME: COPPER CARBONATE – DRY**

### PRODUCT IDENTIFICATION

Chemical Name : Copper Carbonate – Dry  
Synonyms : Cupric Carbonate, Basic Copper Carbonate, Malachite  
Chemical formula :  $CuCo_3.Cu(OH)_2$

### COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS-No.</u>	<u>%</u>	<u>EINECS-NR</u>	<u>EC-No</u>	<u>Symbol(s)</u>	<u>R-phrase(s)</u>
Copper Carbonate	12069-69-1	70 (as CuO dry	235-113-6	N/A	Xn - Harmful	22

### HAZARDS IDENTIFICATION

Physical/Chemical Hazards : Low  
Environmental Hazards : Toxic to plants and fungi  
Human health hazards : Harmful if ingested. Dust irritating to nasal and respiratory tracts.

### FIRST AID MEASURES

#### Effects and symptoms

Ingestion : May cause nausea and vomiting  
Inhalation : Irritation on prolonged contact.  
Skin contact : Mild skin irritation and possible skin discolouration  
Eye contact : Mild eye irritation

#### First aid measures

Ingestion : Drink plenty of water. If you feel unwell seek medical advice  
Inhalation : Move to fresh air  
Skin contact : Wash off with plenty of water  
Eye contact : Rinse immediately with plenty of water, also under the eyelids for atleast 15 minutes

## **FIRE-FIGHTING MEASURES**

<i>Flammability</i>	<i>Non-flammable</i>
<i>Suitable extinguishing media</i>	
<i>Suitable</i>	<i>Water, Foam, Carbon dioxide (CO<sub>2</sub>), dry powder</i>
<i>Not suitable</i>	<i>keep upwind</i>
<i>Hazardous decomposition products</i>	<i>Acid smoke and fumes are evolved on heating</i>
<i>Special protective equipment for fire fighters</i>	<i>In the event of fire ,wear self contained breathing apparatus</i>

## **ACCIDENTAL RELEASE MEASURES**

<i>Personal Precautions</i>	<i>Use personal protective equipment</i>
<i>Environmental precautions</i>	<i>Avoid sub soil penetration</i>
<i>Methods for cleaning up</i>	<i>Sweep up and shovel into suitable containers for disposal</i>

## **HANDLING AND STORAGE**

<i>Storage / Handliing</i>	<i>No special storage conditions required</i>
<i>Packaging Material</i>	
<i>Suitable</i>	<i>Polyethylene containers</i>
<i>Not suitable</i>	

## **EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **National Occupational Exposure Limits**

<i>Chemical Name</i>	<i>Copper Carbonate</i>
<i>OEL (United Kingdom)</i>	<i>10 mg/m<sup>3</sup> 8-hour TWA Total inhalable dust. 4 mg/m<sup>3</sup> 8-hour TWA Respirable dust. 1 mg/m<sup>3</sup> (as Cu) Copper dusts.</i>

<i>Recommended monitoring Procedures</i>	<i>Personal dust samplers</i>
<i>Personal Protection Equipment</i>	
<i>Respiratory Protection</i>	<i>Dust mark</i>
<i>Skin and body protection</i>	<i>Protective suit</i>
<i>Hand Protection</i>	<i>Rubber and plastic gloves</i>
<i>Eye protection</i>	<i>Safety glasses</i>

## **PHYSICAL AND CHEMICAL PROPERTIES**

<i>Form</i>	<i>Fine Powder</i>
<i>Colour</i>	<i>Green</i>
<i>Odour</i>	<i>None</i>
<i>Molecular Weight</i>	<i>221.1</i>
<i>Boiling point / range</i>	
<i>Melting point / range</i>	
<i>Freezing point</i>	

*Decomposition range* 200<sup>0</sup>C  
*Bulk Density*  
*Specific gravity (H<sub>2</sub>O = 1)*  
*PH*  
*Solubility* *Water insoluble*

### **STABILITY AND REACTIVITY**

*Stability* *Stable*  
*Hazardous decomposition products* *CuO fumes*

### **TOXICOLOGICAL INFORMATION**

*Main Constituent(s)* *Copper Carbonate*

#### **Acute toxicity**

*Oral*

*LD<sub>50</sub>/oral/rat = 1350 mg/kg*

*Ingestion of large quantities of copper salts has caused Dizziness, vomiting, cramps, coma and death. Symptoms attributed to damage of the central nervous system, liver and kidneys have been observed.*

*Inhalation*

*Inhalation of copper dusts has caused hemolysis of the red blood cells and injury of the lungs.*

*Skin irritation*

*Discolouration is often seen in persons handling copper compounds but this does not indicate any actual injury*

*Eye irritation*

*Moderate eye irritation on contact*

### **ECOLOGICAL INFORMATION**

*Persistence and degradability*

*Not degradable, water insoluble*

*Ecotoxicity effects*

*Many copper compounds are used as fungicides. Copper carbonate is toxic to plants and fungi*

### **DISPOSAL CONSIDERATIONS**

*Methods of disposal other  
other information*

*Must be reconditioned or disposed of as special waste*

### **TRANSPORT INFORMATION**

*UN-No*

*Not classified as dangerous in the meaning of transport regulations.*

*MDG/ADR CLASS*

*Not applicable*

*UN packing group*

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### **REGULATORY INFORMATION**

*EC Regulations*

*EC Classification*

*Xn – Harmful*

*(67/54.8/EEC-88/379/EEC-  
92/32/EEC)*

*Label Name*

*R-phrases(s)*

*S-Phrases(s)*

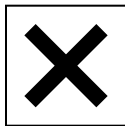
*Symbols*

*COPPER CARBONATE*

*R22- Harmful if swallowed.*

*S37/39-Wear suitable gloves and eye/face protection,*

*S22-Do not breathe dust*



*Harmful*