

Issue Date 30-Apr-2013

Revision Date: 30-October-2019

Version 3

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product Identifier

**Product Name** Copper Carbonate (Basic Copper Carbonate)

### Other Means of Identification

**SDS #** OBC-003

### Synonyms

Basic Copper Carbonate, Copper (II) Carbonate Hydroxide (2:1:2); Copper (carbonate (2-1)) dihydroxydi-; Copper (II) carbonate; Copper Carbonate Hydroxide

### Recommended Use of the Chemical and Restrictions on Use

**Recommended Use** Wood preservative. For industrial use.

### Details of the Supplier

#### **United Nuclear Scientific**

125 N. 8th Street  
Klamath Falls, OR 97601  
Tel: 541-205-6855  
sales@unitednuclear.com

### **24 HR Emergency Telephone**

VelocityEHS (USA): 800-255-3924

## 2. HAZARDS IDENTIFICATION

**Appearance** - Fine green powder

**Physical State** - Solid

**Odor** - Odorless

### Classification

Acute toxicity - Oral	Category 4
Serious eye damage/eye irritation	Category 2
Acute Toxicity - Dermal	Category 4

### Signal Word

**Warning**

### Hazard statements

Harmful if swallowed or inhaled  
Harmful in contact with skin  
Causes serious eye irritation



**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
 Do not eat, drink or smoke when using this product  
 Wear eye protection/ face protection  
 Wear protective gloves/clothing

**Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 Immediately call a POISON CENTER or doctor  
 IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell  
 Rinse mouth  
 If on skin: wash with plenty of soap and water.  
 Take off contaminated clothing and wash before reuse.

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Other hazards**

Very toxic to aquatic life with long lasting effects

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Synonyms**

Basic Copper Carbonate, Copper (II) Carbonate Hydroxide (2:1:2); Copper (carbonate(2-1)) dihydroxydi-; Copper (II) carbonate; Copper Carbonate Hydroxide.

Chemical Name	CAS No	Weight-%
Copper Carbonate	12069-69-1	100

### 4. FIRST AID MEASURES

**First Aid Measures**

<b>Eye Contact</b>	Immediately flush eyes with gentle but large amount of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Call a physician immediately.
<b>Skin Contact</b>	Wash affected areas thoroughly with soap and water for at least 15 minutes. Remove and wash contaminated clothing before reuse. Get medical attention.
<b>Inhalation</b>	Remove to fresh air. If not breathing, give artificial respiration. Call a physician.
<b>Ingestion</b>	Induce vomiting, but only if victim is fully conscious. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

**Most Important Symptoms and Effects, both Acute and Delayed**

<b>Symptoms</b>	Swallowing: may cause burning pain in mouth, esophagus and stomach. Hemorrhagic gastritis, nausea, vomiting, abdominal pain, metallic taste and diarrhea may occur. If vomiting does not occur immediately systemic copper poisoning may occur. Symptoms may include capillary damage, headache, cold sweat, weak pulse, kidney and liver damage, central nervous excitation followed by depression, jaundice, convulsions, blood effects, paralysis and coma. Death could occur from shock or renal failure.  Skin Contact: Certain individuals may have skin sensitivity to copper. May cause irritation with redness and pain.
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Eye Contact: May cause irritation, redness, pain, blurred vision and discoloration. May cause corneal opacity, inflammation and conjunctivitis.

Inhalation: May cause irritation to upper respiratory tract. Symptoms include coughing, sore throat and shortness of breath. May result in ulceration and perforation of respiratory tract. When heated, this compound may give off copper fume, which can cause symptoms similar to the common cold, including chills and stuffiness of the head.

Chronic Exposure: Prolonged or repeated skin exposure may cause dermatitis. Prolonged exposure to dusts of copper salts may cause discoloration of the skin or hair, blood or liver damage, ulceration and perforation of the nasal septum, runny nose, metallic taste and atrophic changes and irritation of the mucous membranes.

#### **Indication of any Immediate Medical Attention and Special Treatment Needed**

**Note to Physicians** Treat symptomatically.

### **5. FIRE-FIGHTING MEASURES**

#### **Suitable Extinguishing Media**

Dry chemical, CO<sub>2</sub>, water spray or regular foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** Not determined.

#### **Specific Hazards Arising from the Chemical**

This product does not sustain combustion.

#### **Protective Equipment and Precautions for Firefighters**

Firefighters wear protective clothing and self-contained breathing apparatus. May be an explosion hazard when mixed with incompatibles. See Section 10 for incompatible materials.

### **6. ACCIDENTAL RELEASE MEASURES**

#### **Personal Precautions, Protective Equipment and Emergency Procedures**

**Personal Precautions** Wear protective clothing as described in Section 8 of this safety data sheet.

#### **Methods and Material for Containment and Cleaning Up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so. Dike far ahead of spill to collect runoff water.

**Methods for Cleaning Up** Keep in suitable, closed containers for disposal. Prevent run off to storm sewers and ditches leading to natural waterways.

### **7. HANDLING AND STORAGE**

#### **Precautions for Safe Handling**

**Advice on Safe Handling** Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8.

#### **Conditions for Safe Storage, Including any Incompatibilities**

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible Materials** None known based on information supplied.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines** No exposure limits noted for ingredient(s)

### **Appropriate Engineering Controls**

**Engineering Controls** Local exhaust and mechanical ventilations are recommended to be used as engineering controls. Eyewash stations. Showers.

### **Individual Protection Measures, such as Personal Protective Equipment**

**Eye/Face Protection** Use chemical safety goggles and/or full-face shield where dusting is possible.

**Skin and Body Protection** Wear protective gloves and protective clothing.

**Respiratory Protection** Ensure adequate ventilation, especially in confined areas.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### **Information on Basic Physical and Chemical Properties**

### **Remarks • Method**

<b>Physical State</b>	Solid
<b>Appearance</b>	Fine green powder
<b>Color</b>	Green
<b><u>Property</u></b>	<b><u>Values</u></b>
<b>pH</b>	Not Applicable
<b>Melting Point/Freezing Point</b>	200 °C / 392 °F
<b>Boiling Point/Boiling Range</b>	Not Applicable
<b>Flash Point</b>	Not Applicable
<b>Evaporation Rate</b>	Not Applicable
<b>Flammability (Solid, Gas)</b>	Not determined
<b>Upper Flammability Limits</b>	Not determined
<b>Lower Flammability Limit</b>	Not determined
<b>Vapor Pressure</b>	Not Applicable
<b>Vapor Density</b>	Not Applicable
<b>Specific Gravity</b>	4.0
<b>Water Solubility</b>	Insoluble in water
<b>Solubility in Other Solvents</b>	Soluble in acids
<b>Partition Coefficient</b>	Not determined
<b>Autoignition Temperature</b>	Not determined
<b>Decomposition Temperature</b>	Not determined
<b>Kinematic Viscosity</b>	Not determined
<b>Dynamic Viscosity</b>	Not determined
<b>Explosive Properties</b>	May be an explosion hazard when mixed with incompatibles See Section 10 for incompatible materials
<b>Oxidizing Properties</b>	Not determined
<b>Odor</b>	Odorless
<b>Odor Threshold</b>	Not determined

## 10. STABILITY AND REACTIVITY

### **Reactivity**

Not reactive under normal conditions.

**Chemical Stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

None under normal processing.

**Hazardous Polymerization**

Hazardous polymerization does not occur.

**Conditions to Avoid**

Keep out of reach of children.

**Incompatible Materials**

None known based on information supplied.

**Hazardous Decomposition Products**

None under normal use conditions. Acrid smoke and fumes emitted if heated to decomposition. Smoke may be acrid and fumes irritating.

**11. TOXICOLOGICAL INFORMATION****Information on Likely Routes of Exposure****Product Information****Eye Contact**

Avoid contact with eyes.

**Skin Contact**

Avoid contact with skin.

**Inhalation**

Avoid inhalation of dust.

**Ingestion**

Do not taste or swallow.

**Component Information**

Not available

**Information on Physical, Chemical and Toxicological Effects****Symptoms**

Please see section 4 of this SDS for symptoms.

**Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure****Carcinogenicity**

This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

**Numerical Measures of Toxicity**

Not determined

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

**Component Information** Not available

**Persistence and Degradability**  
Not determined

**Bioaccumulation**  
Not determined

**Mobility**  
Not determined

**Other Adverse Effects**  
Not determined

### 13. DISPOSAL CONSIDERATIONS

#### **Waste Treatment Methods**

<b>Disposal of Wastes</b>	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. With prior approval the material can be returned to the manufacturer.
<b>Contaminated Packaging</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.

### 14. TRANSPORT INFORMATION

<b><u>Note</u></b>	Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.
<b><u>DOT</u></b>	Not regulated
<b><u>IATA</u></b>	Not regulated
<b><u>IMDG</u></b>	Not regulated

### 15. REGULATORY INFORMATION

#### **International Inventories**

**TSCA** Listed

**Legend:**

*TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*

*DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List*

*EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*

*ENCS - Japan Existing and New Chemical Substances*

*IECSC - China Inventory of Existing Chemical Substances*

*KECL - Korean Existing and Evaluated Chemical Substances*

*PICCS - Philippines Inventory of Chemicals and Chemical Substances*

**US Federal Regulations****SARA 311/312 Hazard Categories**

Acute health hazard

Yes

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Copper Carbonate - 12069-69-1	12069-69-1	100	55-57

**US State Regulations****California Proposition 65**

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Copper Carbonate - 12069-69-1	x

**U.S. State Right-to-Know Regulations**

Not Determined

**16. OTHER INFORMATION**

<b><u>NFPA</u></b>	<b>Health Hazards</b>	<b>Flammability</b>	<b>Instability</b>	<b>Special Hazards</b> Not determined
	3	0	0	<b>Personal</b>
<b><u>HMIS</u></b>	<b>Health Hazards</b>	<b>Flammability</b>	<b>Physical Hazards</b>	<b>Protection</b> Not determined
	3	0	0	

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**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**