



Distributed by:  
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Copper Carbonate

SDS Revision Date (mm/dd/yyyy): 08/08/2018

Page 1 of 9

## SAFETY DATA SHEET

### SECTION 1. IDENTIFICATION

Product identifier used on the label

: **Copper Carbonate**

Product Code(s) : None reported.

Recommended use of the chemical and restrictions on use

: Commercial use  
Restriction on use: None known

Chemical family : Inorganic copper compound

Name, address, and telephone number  
of the supplier:

**World Metal, L.L.C.**

10701 Corporate Drive  
Suite 184  
Stafford, TX, USA  
77477

Supplier's Telephone # : 281-491-7474

24 Hr. Emergency Tel # : (800) 424-9300 (CHEMTREC)

Name, address, and telephone number of  
the manufacturer:

Refer to supplier

### SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Light green powder. Odourless.

Most important hazards This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Hazard classification:

Acute toxicity - Oral - Category 4

Label elements

Hazard pictogram(s)



Signal Word

Warning!

Hazard statement(s)

Harmful if swallowed.

Precautionary statement(s)

Wash hands thoroughly after handling.  
Do not eat, drink or smoke when using this product.

IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell. Rinse mouth.

Dispose of contents/container in accordance with local regulation.



**Copper Carbonate**

SDS Revision Date (mm/dd/yyyy): 08/08/2018

**SAFETY DATA SHEET**

**Other hazards**

Other hazards which do not result in classification:

Ingestion may cause irritation of the mouth, throat and stomach. Ingestion of product may result in metal fume fever, a flu - like illness.

Environmental precautions:

Avoid release to the environment. See ECOLOGICAL INFORMATION, Section 12.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Pure substance

<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS #</u>	<u>Concentration (% by weight)</u>
Copper Carbonate	Cupric carbonate; Copper (II) Carbonate	12069-69-1	98.0 - 100.0

**SECTION 4. FIRST-AID MEASURES**

**Description of first aid measures**

- Ingestion* : IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell. Do not induce vomiting. Rinse mouth thoroughly. Never give anything by mouth to an unconscious person.
- Inhalation* : Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Call a physician if irritation develops or persists.
- Skin contact* : Wash affected areas with soap and water. Get medical attention if irritation develops and persists.
- Eye contact* : Flush with large amounts of water for 15 minutes. If irritation or symptoms develop, seek medical attention.

**Most important symptoms and effects, both acute and delayed**

- : Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion of product may result in metal fume fever, a flu - like illness. Symptoms of metal fume fever may include fever, fatigue, vomiting, muscle aches and shortness of breath. Direct contact with eyes may cause temporary irritation. Inhalation of dusts may cause respiratory irritation.

**Indication of any immediate medical attention and special treatment needed**

- : Treat symptomatically.

**SECTION 5. FIRE-FIGHTING MEASURES**

**Extinguishing media**

*Suitable extinguishing media*

- : Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

*Unsuitable extinguishing media*

- : Do not use a solid water stream as it may scatter and spread fire.

**Special hazards arising from the substance or mixture / Conditions of flammability**

- : None known or reported by the manufacturer.

**Flammability classification (OSHA 29 CFR 1910.106)**

- : Not flammable.

**Hazardous combustion products**

- : Copper oxides, Carbon oxides, and irritating fumes and smoke

**Special protective equipment and precautions for firefighters**

*Protective equipment for fire-fighters*

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Copper Carbonate

SDS Revision Date (mm/dd/yyyy): 08/08/2018

Page 3 of 9

## SAFETY DATA SHEET

- : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. A full-body chemical resistant suit should be worn.

*Special fire-fighting procedures*

- : Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

- : All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Keep all other personnel upwind and away from the spill/release. Restrict access to area until completion of clean-up. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.

**Environmental precautions** : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. For large spills, dike the area to prevent spreading.

**Methods and material for containment and cleaning up**

- : Ventilate the area. Prevent further leakage or spillage if safe to do so. Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation. Contact the proper local authorities.

**Special spill response procedures**

- : If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802).  
 US CERCLA Reportable quantity (RQ): None reportable.

### SECTION 7. HANDLING AND STORAGE

**Precautions for safe handling**

- : Use in a well-ventilated area. Wear chemically resistant protective equipment during handling. Avoid breathing dust and fume. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Keep away from acids and other incompatibles. Label containers appropriately. Wash thoroughly after handling. Keep containers closed when not in use.

**Conditions for safe storage** : Store in a cool, dry, well-ventilated area. Store away from incompatibles and out of direct sunlight. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.

**Incompatible materials** : Strong acids.

### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Exposure Limits:</b>				
<b>Chemical Name</b>	<b>ACGIH TLV</b>		<b>OSHA PEL</b>	
	<b>TWA</b>	<b>STEL</b>	<b>PEL</b>	<b>STEL</b>
Copper Carbonate	0.1 mg/m <sup>3</sup> (fume) (as Cu); 1 mg/m <sup>3</sup> (dust and mist, as Cu)	N/Av	0.2 mg/m <sup>3</sup> (fume) (as Cu); 1 mg/m <sup>3</sup> (dust and mist, as Cu)	N/Av



Copper Carbonate

SDS Revision Date (mm/dd/yyyy): 08/08/2018

Page 4 of 9

## SAFETY DATA SHEET

### Ventilation and engineering measures

: Provide exhaust ventilation or other engineering controls to keep the airborne concentration of vapours below their respective threshold limit value.

### Respiratory protection

: Respiratory protection is required if the concentrations exceed the TLV. Use a NIOSH approved dust respirator if dust levels exceed exposure limits. Seek advice from respiratory protection specialists.

### Skin protection

: Where contact is likely, impervious gloves are recommended. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

### Eye / face protection

: Chemical goggles must be worn to prevent dusts from entering the eyes.

### Other protective equipment

: Wear sufficient clothing to prevent skin contact. An eyewash station and safety shower should be made available in the immediate working area. Other equipment may be required depending on workplace standards.

### General hygiene considerations

: Avoid breathing dust and fume. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

: Light green powder.

### Odour

: Odourless.

### Odour threshold

: No information available.

### pH

: No information available.

### Melting/Freezing point

: No information available.

### Initial boiling point and boiling range

: 333.6°C (632.5°F)

### Flash point

: Not Applicable (Does not burn)

### Flashpoint (Method)

: Not applicable.

### Evaporation rate (BuAe = 1)

: No information available.

### Flammability (solid, gas)

: The product is not flammable.

### Lower flammable limit (% by vol.)

: Not applicable.

### Upper flammable limit (% by vol.)

: Not applicable.

### Oxidizing properties

: None known.

### Explosive properties

: Not explosive

### Vapour pressure

: No information available.

### Vapour density

: No information available.

### Relative density / Specific gravity

: 3.48

### Solubility in water

: Insoluble.

### Other solubility(ies)

: No information available.

### Partition coefficient: n-octanol/water or Coefficient of water/oil distribution

: No information available.

### Auto-ignition temperature

: No information available.

### Decomposition temperature

: > 200°C (> 392°F)

### Viscosity

: No information available.

### Volatiles (% by weight)

: No information available.

### Volatile organic Compounds (VOC's)

: No information available.



Copper Carbonate

SDS Revision Date (mm/dd/yyyy): 08/08/2018

Page 5 of 9

## SAFETY DATA SHEET

### Absolute pressure of container

: Not applicable.

### Flame projection length

: Not applicable.

### Other physical/chemical comments

: No additional information.

## SECTION 10. STABILITY AND REACTIVITY

**Reactivity** : Not normally reactive.

**Chemical stability** : Stable under normal conditions.

### Possibility of hazardous reactions

: Hazardous polymerization does not occur.

### Conditions to avoid

: Ensure adequate ventilation, especially in confined areas. Avoid contact with incompatible materials.

### Incompatible materials

: See Section 7 (Handling and Storage) for further details.

### Hazardous decomposition products

: None known, refer to hazardous combustion products in Section 5.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure:

**Routes of entry inhalation** : YES

**Routes of entry skin & eye** : YES

**Routes of entry Ingestion** : YES

**Routes of exposure skin absorption**

: NO

### Potential Health Effects:

#### Signs and symptoms of short-term (acute) exposure

##### *Sign and symptoms Inhalation*

: Inhalation of dust or fumes may cause irritation of the nose, throat and upper respiratory tract.

##### *Sign and symptoms ingestion*

: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion of product may result in metal fume fever, a flu - like illness. Symptoms of metal fume fever may include fever, fatigue, vomiting, muscle aches and shortness of breath.

##### *Sign and symptoms skin*

: Direct contact may cause mild to severe irritation with possible burns.

##### *Sign and symptoms eyes*

: Direct eye contact may cause slight or mild, transient irritation.

#### Potential Chronic Health Effects

: Prolonged or repeated contact may cause drying, cracking and defatting of the skin. Prolonged or repeated overexposure may cause liver, kidney and blood system effects.

#### Mutagenicity

: Not expected to be mutagenic in humans.

#### Carcinogenicity

: No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

#### Reproductive effects & Teratogenicity

: Not expected to have other reproductive effects.

#### Sensitization to material

: Not expected to be a skin or respiratory sensitizer.



Copper Carbonate

SDS Revision Date (mm/dd/yyyy): 08/08/2018

### SAFETY DATA SHEET

**Specific target organ effects** : This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

**Medical conditions aggravated by overexposure**

: Pre-existing skin, eye and respiratory disorders.

**Synergistic materials**

: No information available.

**Toxicological data**

: See below for toxicological data on the substance.

<u>Chemical name</u>	<u>LC<sub>50</sub>(4hr)</u>	<u>LD<sub>50</sub></u>	
	<u>inh, rat</u>	<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Copper Carbonate	N/Av	1291 mg/kg	> 2000 mg/kg

**Other important toxicological hazards**

: None known or reported by the manufacturer.

#### SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity** : Not expected to be harmful to aquatic organisms. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. Do not release, unmonitored, into the environment.

**Ecotoxicity data:**

<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Fish</u>		
		<u>LC<sub>50</sub> / 96h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
Copper Carbonate	12069-69-1	N/Av	N/Av	None.

<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Daphnia</u>		
		<u>EC<sub>50</sub> / 48h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
Copper Carbonate	12069-69-1	N/Av	N/Av	None.

<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Algae</u>		
		<u>EC<sub>50</sub> / 96h or 72h</u>	<u>NOEC / 96h or 72h</u>	<u>M Factor</u>
Copper Carbonate	12069-69-1	N/Av	N/Av	None.

**Persistence and degradability**

: No data is available on the product itself.

**Bioaccumulation potential**

: No data is available on the product itself.

<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
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**Mobility in soil** : No data is available on the product itself.

**Other Adverse Environmental effects**

: No data is available on the product itself.



Copper Carbonate

SDS Revision Date (mm/dd/yyyy): 08/08/2018

Page 7 of 9

## SAFETY DATA SHEET

### SECTION 13. DISPOSAL CONSIDERATIONS

- Handling for Disposal** : Handle waste according to recommendations in Section 7. Empty containers retain residue (liquid and/or vapour) and can be dangerous.
- Methods of Disposal** : Dispose in accordance with all applicable federal, state, provincial and local regulations.
- RCRA** : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method.

### SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
TDG	None.	Not regulated.	not regulated	none	
<b>TDG Additional information</b>	None.				
49CFR/DOT	None.	Not regulated.	not regulated	none	
<b>49CFR/DOT Additional information</b>	None.				

- Special precautions for user** : Appropriate advice on safety must accompany the package.
- Environmental hazards** : This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.
- Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
 : This information is not available.

### SECTION 15 - REGULATORY INFORMATION

**US Federal Information:**

Components listed below are present on the following U.S. Federal chemical lists:

<u>Ingredients</u>	CAS #	TSCA Inventory	CERCLA Reportable Quantity (RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de minimus Concentration
Copper Carbonate	12069-69-1	Yes	N/Ap	N/Av	No	N/Ap

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Acute toxicity. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.



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SDS Revision Date (mm/dd/yyyy): 08/08/2018

Page 8 of 9

## SAFETY DATA SHEET

**US State Right to Know Laws:**

The following chemicals are specifically listed by individual States:

<u>Ingredients</u>	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Copper Carbonate	12069-69-1	No	N/Ap	No	No	No	No	No	No

**Canadian Information:**

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL). Refer to Section 2 for a WHMIS Classification for this product.

**International Information:**

Components listed below are present on the following International Inventory list:

<u>Ingredients</u>	CAS #	European EINECS	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Copper Carbonate	12069-69-1	235-113-6	Present	Present	(1)-130	KE-08907	Present	HSR003151

**SECTION 16. OTHER INFORMATION**

**Legend**

- : ACGIH: American Conference of Governmental Industrial Hygienists
- CAS: Chemical Abstract Services
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
- CFR: Code of Federal Regulations
- DOT: Department of Transportation
- ERAP: Emergency Response Assistance Plan
- HMIS: Hazardous Materials Identification System
- IARC: International Agency for Research on Cancer
- Inh: Inhalation
- LC: Lethal Concentration
- LD: Lethal Dose
- MSHA: Mine Safety and Health Administration
- N/Ap: Not Applicable
- N/Av: Not Available
- NIOSH: National Institute of Occupational Safety and Health
- NTP: National Toxicology Program
- OSHA: Occupational Safety and Health Administration
- PEL: Permissible exposure limit
- RTECS: Registry of Toxic Effects of Chemical Substances
- SARA: Superfund Amendments and Reauthorization Act
- STEL: Short Term Exposure Limit
- TDG: Canadian Transportation of Dangerous Goods Act & Regulations
- TLV: Threshold Limit Values
- TPQ: Threshold Planning Quantity
- TWA: Time Weighted Average
- TSCA: Toxic Substance Control Act
- WHMIS: Workplace Hazardous Materials Identification System





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**Copper Carbonate**

**SDS Revision Date (mm/dd/yyyy): 08/08/2018**

Page 9 of 9

**SAFETY DATA SHEET**

- References** :
1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2018
  2. International Agency for Research on Cancer Monographs, searched 2018
  3. Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases, 2018(Chempendium, HSDB and RTECs).
  4. Material Safety Data Sheets from manufacturer.
  5. US EPA Title III List of Lists - 2018 version.
  6. California Proposition 65 List - 2018 version.
  7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal,2018.

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: 03/21/2013

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: 08/08/2018

**Revision No.**

: 2

**Revision Information**

: (M)SDS sections updated: All sections modified.

**Other special considerations for handling**

: Provide adequate information, instruction and training for operators.

<p><b><u>Prepared for:</u></b></p>	
<p><b><u>Prepared by:</u></b>          ICC The Compliance Center Inc.          Telephone: (888) 442-9628 (U.S.); (888) 977-4834 (Canada)  <a href="http://www.thecompliancecenter.com">http://www.thecompliancecenter.com</a></p>	

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