

Safety Data Sheet

ShoreMet Basic Copper Carbonate

Section 1- Product and Company Identification

Supplier

ShoreMet LLC
3601 Enterprise Ave
Valparaiso, IN 46383

Manufacturer

ShoreMet LLC
3601 Enterprise Ave
Valparaiso, IN 46383

Company Contact: Danny Mislenkov**Telephone Number:** (219) 390-3336 x100**Emergency Contact & Phone Number:****Product Name:** ShoreMet Basic Copper Carbonate**Chemical Family:** Copper carbonate**Chemical Formula:** $\text{Cu}_2(\text{OH})_2\text{CO}_3$ **Recommended Use/Restrictions on Use:** Use only as an industrial chemical, not to be used as a pesticide.**General Comments:** Emergency telephone numbers are to be used only in the event of chemical emergencies involving a spill, leak, fire, explosion, or accident involving chemicals. All non-emergency questions should be directed to customer service.**Company Contact:** Danny Mislenkov**Telephone Number:** (219) 390-3336 x100

Travis J. Lechien (219) 384-7313

Section 2- Hazards Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;**Warning****Hazard Statements**

H302: Harmful if swallowed.

H400: Very toxic to aquatic life.

H410: Toxic to aquatic life with long-lasting effects.

Precautionary Statements

P264: Wash skin thoroughly after handling.

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

P273: Avoid release to the environment.

P301+P312+P330: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth.

P391: Collect spillage.

P501: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

GHS Classification

Acute toxicity, Oral (Category 4); Hazardous to the aquatic environment, acute hazard (Category 1); Hazardous to the aquatic environment, long-term hazard (Category 2)

Hazards not otherwise classified (HNOC) or not covered by GHS

None

HMIS Ratings: HEALTH: 2 FIRE: 0 REACTIVITY: 0

Hazard Scale: 0=Minimal, 1=Slight, 2= Moderate, 3= Serious, 4=Severe *=Chronic Hazard

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Section 3- Composition/Information on Ingredients

Component	CAS #	Percent
Basic copper carbonate	12069-69-1	>95

Section 4- First Aid Measures

First Aid: General Measures

Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with labored breathing: half-seated. Victim in shock: on their back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor or hospital.

First Aid: Eyes

Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Remove contact lenses, if present and easy to do. Seek medical attention if irritation persists.

First Aid: Skin

For skin contact, wash immediately with soap and water. Immediately take off all contaminated clothing. Seek immediate medical attention if irritation develops or persists.

First Aid: Ingestion

If the material is swallowed, get immediate medical attention or advice—do not induce vomiting. Have victim rinse mouth thoroughly with water, if conscious. Give one to two glasses of water or milk. Never give anything by mouth to an unconscious victim. Do not use mouth-to-mouth if victim has ingested the substance. Induce artificial respiration with a proper respiratory medical device.

First Aid: Inhalation

If the product or mist or vapors of this product are inhaled, immediately remove the affected person to fresh air. Seek immediate medical attention do NOT perform mouth-to-mouth resuscitation unless a pocket mask equipped with a one-way valve or another proper respiratory medical device is available.

Most Important Symptoms and Effects, both Acute and Delayed

After inhalation of dust, dry/sore throat. Irritation of the respiratory tract and nasal mucous membranes. After contact with the eyes, slight irritation. After ingestion, gastrointestinal complaints, vomiting, abdominal pain and/or diarrhea. With continuous/repeated exposure/contact, skin rash/inflammation, change in the hemogram/blood composition. Enlargement/affection of the liver. Decreased renal function.

Indication of Immediate Medical Attention and Special Treatment Needed

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

First Aid: Notes to Physician

Treat the affected person symptomatically.

Section 5- Firefighting Measures

Suitable Extinguishing Media

Dry chemical, foam, carbon dioxide, or water fog.

Unsuitable Extinguishing Media

Do not use water jet as an extinguisher, as this will spread the fire.

Hazardous Combustion Products

Copper compounds. Combustion products also include irritating vapors and toxic gases, ammonia and nitrogen oxides.

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Section 5- Firefighting Measures (Continued)

Special Firefighting Procedures

Separate from mass. Eliminate oxygen. Material is non-flammable or explosive.

Personal Protective Equipment

Firefighters should wear full protective clothing including self-contained breathing apparatus.

Additional Information

Collect contaminated firefighting water separately, it must not enter the sewer system.

Section 6- Accidental Release Measures

Personal Precautions

Avoid all contact with skin, eyes or clothing. Avoid breathing vapor, mist or spray. Wear appropriate personal protective equipment: coveralls, gloves and eye protection. Ensure adequate ventilation and evacuate personnel to safe areas.

Environmental Precautions

Do not allow to enter drains or watercourses. If the product enters drains or sewers, immediately inform the local water company. Where there is contamination of streams, rivers or lakes contact local agency with responsibility for the environment.

Methods for Clean-Up

Stop the flow of material, if this is without risk. Contain spillages and clean-up with vacuum or conventional tools in an attempt to minimize migration use dikes or absorbents. Neutralize with citric acid or other neutralizing agent for basic liquids. Decontaminate the area. Test area with litmus paper to ensure neutralization. Ventilate the contaminated area. Place in a suitable container for recycling or disposal in accordance with local and national waste regulations. NOTE: During a spill/leak response, minimal Personal Protective Equipment should include: triple gloves (rubber gloves and nitrile gloves over latex gloves), chemically resistant suit and boots, hard-hat and self-contained breathing apparatus.

Section 7- Handling and Storage

Handling Procedures

Do not get this material in your eyes, on your skin or on your clothing. Do not inhale vapors or mists of this product. Use this product with adequate ventilation. Avoid release to the environment. Wash thoroughly after handling. Keep out of reach of children. See section 8 for appropriate protective clothing, equipment and air monitoring procedures.

Storage Procedures

Store in a cool, dry, well-ventilated area. Empty product containers may contain product residue. Do not reuse empty containers. Do not store this material in open or unlabeled containers. Store away from direct sunlight, or any source of intense heat. Store away from area where freezing is possible. Incompatible materials include strong acids, therefore, do not store this material near any of these materials. Keep away from food, drink and animal feed. Materials should be stored in secondary areas, or in diked areas, as appropriate. Floors should be sealed to prevent absorption of this material. Appropriate extinguishing equipment should be in storage area. Post warning and "NO SMOKING" signs in storage and use areas, as appropriate.

Section 8- Exposure Controls/Personal Protection

EXPOSURE GUIDELINES:

General Product Information

Follow all applicable exposure limits.

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Section 8- Exposure Controls/Personal Protection (Continued)

Component Exposure Limits

Basic Copper Carbonate: The exposure limits given are for copper and inorganic compounds as Cu, copper fume as Cu, or copper dust and mists as Cu as noted.

ACGIH: 1 mg/m³ TWA (dusts and mists, copper): 0.2 mg/ m³ (fume, copper)

OSHA: 1 mg/m³ TWA (dusts and mists, copper): 0.1 mg/ m³ (fume, copper)

OSHA Final: 0.1 mg/m³ TWA (fume, copper); 1 mg/m³ TWA (dusts and mists, copper)

NIOSH: 1 mg/m³ TWA (dusts and mists, copper): 0.1 mg/ m³ (fume, copper)

Engineering Controls

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits. Handle in accordance with good industrial hygiene and safety practice. Ensure that eyewash stations and safety showers are close to the work location.

PERSONAL PROTECTIVE EQUIPMENT:

Personal Protective Equipment: Eyes/Face

Wear chemical splash goggles and face shield.

Personal Protective Equipment: Skin

Use impervious gloves. Recommended rubber, neoprene or nitrile gloves. Use of impervious apron or coveralls and boots are recommended.

Personal Protective Equipment: Respiratory

If ventilation is not enough to effectively prevent buildup of vapors or mists, appropriate approved NIOSH respiratory protection must be provided (i.e. air-purifying respirator with an ammonia cartridge). Respirators should be selected by and used under the direction of a trained health and safety professional following the requirements found in OSHA's respirator standard (29 CFR 1901.134) and ANSI's standard for respiratory protection (Z88.2-1992), applicable U.S. regulations, or the Canadian CSA Standard Z94.4-93 and applicable standards of Canadian Provinces. A written respiratory protection program, including provisions for medical certification, training, fit-testing, exposure assessments, maintenance, inspection, cleaning and convenient, sanitary storage must be implemented. For concentrations above the TLV and/or PEL but less than 10 times these limits, a NIOSH approved half-face piece respirator equipped with vapor cartridges may be used. For concentrations greater than 10 times the TLV and/or PEL, consult the NIOSH respirator decision logic found in Publication No. 87-166 or ANSI Z88.2-1992. **WARNING!** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Personal Protective Equipment: General

Eyewash fountains and emergency showers are required.

Section 9- Physical and Chemical Properties

Appearance: green powder

Physical State: Solid

pH: 9.4 @ 20°C (68°F)

Vapor Pressure: Not available

Boiling Point: N/A

Solubility (H₂O): Slightly soluble

Freezing Point: N/A

Flash Point: N/A

Auto-ignition Temperature: N/A

Octanol/H₂O Coeff.: Not Available

Odor: None

Odor Threshold: N/A

Viscosity: Not available

Vapor Density: Not available

Melting Point: 200°C (392°F)

Specific Gravity: 1.47 @ 20 °C (68 °F)

Evaporation Rate (n-BuAc=1): N/A

Flammability Limits in Air: N/A

Decomposition Temperature: Not available

Percent Volatile by Volume: N/A

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Section 10- Chemical Stability and Reactivity Information

Chemical Stability

This is a stable material at normal conditions.

Chemical Stability: Conditions to Avoid

Avoid extremely high or low temperatures, direct sunlight and contact with incompatible materials.

Incompatibility

Strong acids.

Hazardous Decomposition

Decomposition products include copper fumes, copper compounds, and carbon oxides.

Hazardous Polymerization

Not expected to occur.

Section 11- Toxicological Information

INFORMATION ON TOXICOLOGICAL EFFECTS--PRODUCT

Acute and Chronic Toxicity

Oral: Harmful if swallowed.

Routes of Entry: Ingestion, Inhalation

LD50 Data: Basic Copper Carbonate (CAS Number: 12069-69-1)

Dermal LD50 Rat: >2000 mg/kg body weight

Oral LD50 Rat: 1385 mg/kg

Skin Corrosion/Irritation: Not classified.

Respiratory or Skin Sensitization: Not classified.

Germ Cell Mutagenicity: Not classified.

Teratogenicity: Not classified.

Carcinogenicity: Not classified.

Specific Target Organ Toxicity (repeated exposure): Not classified.

Reproductive Toxicity: Not classified.

Specific Target Organ Toxicity (single exposure): Not classified.

Aspiration Hazard: Not classified.

Potential Adverse Human Effects and Symptoms: Inhalation can cause moderate to severe irritation or burns. Harmful if swallowed.

Symptoms/Injuries After Inhalation: Causes respiratory irritation. Dry/sore throat. Irritation of the nasal mucous membranes.

Symptoms/Injuries After Skin Contact: No effects known.

Symptoms/Injuries After Eye Contact: Slight irritation.

Symptoms/Injuries After Ingestion: Gastrointestinal complaints. Vomiting. Abdominal pain. Diarrhea.

Chronic Symptoms: On continuous/repeated exposure/contact: skin rash/inflammation. Change in the blood composition. Enlargement/affection of the liver. Decreased renal function.

Section 12- Ecological Information

Ecotoxicity: No data available.

Mobility in Soil: This product is water soluble and may disperse in soil.

Bioaccumulative Potential: No data available.

Persistence: No data available.

Degradability: No data available.

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Section 13- Disposal Considerations

US EPA Waste Number & Descriptions

General Product Information

As shipped, this product is not considered a hazardous waste.

Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions

All wastes must be handled in accordance with local, state, and federal regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.

Section 14- Transportation Information

US DOT Information: Not regulated.

Transportation of Dangerous Goods (TDG)- Transport Canada: Not regulated.

IMDG:

UN Number: UN3077

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Basic Copper Carbonate)

Hazard Class(es): 9

Label(s): 9

Packing Group: III

Environmental hazards: No

EmS: F-A, S-F

IATA:

UN Number: UN3077

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Basic Copper Carbonate)

Hazard Class(es): 9

Label(s): 9

Packing Group: III

Environmental hazards: No

ERG Code: 9L

Section 15- Regulatory Information

US Federal Regulations

Component Analysis

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

Basic Copper Carbonate (12069-69-1)

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA title III, Section 302.

SARA 313: Form R reporting required for 1.0% of minimal concentration (related to copper)

SARA 311/312 Hazard Classes: Immediate (acute) health hazard.

General Product Information

Other state regulations may apply. Check individual state requirements.

Component Analysis- State

The following states contain basic copper carbonate on their state hazardous substances list: NJ and RI.

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Section 15- Regulatory Information (Continued)

Clean Water Act (CWA) Section 112(r) (40 CFR 68.130)

Priority pollutant. Toxic pollutant.

Safe Drinking Water Act (SDWA)

1.3 mg/L

Additional Regulatory Information (TSCA Status)

All components are on the US EPA TSCA Inventory List.

International Inventories

All components are on the Canadian Domestic Substances. Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances. Listed on the Australian Inventory of chemical Substances (AICS). Listed on the Inventory of Existing Chemical Substances in China (IECSC). Listed on the Inventory of Existing and New Chemical Substances (ENCS) in Japan. Listed in Korea on the Existing Chemicals List (ECL). Listed on the New Zealand Inventory. Listed on the Philippine Inventory of Chemicals and Chemical Substances (PICCS).

Section 16- Other Information

Other Information

Disclaimer: Supplier gives no warranty of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser will make his own tests to determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental and/or consequential property damage arising out of the use of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights. Read the Safety Data Sheet before handling product.

Reference Documentation

Information based on Safety Data Sheets for similar materials and SDSs for individual components on file at ShoreMet LLC.

Preparer Information

SDS Preparer: Travis J. Lechien

SDS Preparer Telephone Number: (219) 390-3336 x103

Revision Log:

Revision	Date	Initiator	Description of Changes
1	3/30/17	Travis J. Lechien	Original

This is the end of SDS ShoreMet Basic Copper Carbonate