



SAFETY DATA SHEET

Issue Date 30-Apr-2013

Revision Date 30-October-2019

Version 3

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name Basic Copper Sulfate

Other Means of Identification

SDS # OBC-004

Synonyms Tri-Basic Copper Sulfate, Copper Sulfate Basic, Fixed Copper

Recommended Use of the Chemical and Restrictions on Use

Recommended Use For industrial use.

Details of the Supplier of the Safety Data Sheet

Manufacturer Address

Old Bridge Chemicals, Inc.
554 Waterworks Rd.
Old Bridge, NJ 08857

Emergency Telephone Number

Company Phone Number (732) 727-2225 (normal business hours)

(800) 275-3924 (24 hour number)

Emergency Telephone Chemtrec 1-800-424-9300 (North America) 1-703-527-3887 (International)

2. HAZARDS IDENTIFICATION

Appearance – Bluish-Green Fine Powder

Physical State – Solid

Odor – Odorless

Classification

Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 4
Eye damage/Irritation	Category 2

Signal Word

Warning

Hazard Statements

Harmful if swallowed
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 protective gloves/protective clothing
 Wear eye protection/face protection

Precautionary Statements - Response

If on skin: Wash with plenty of soap and water
 Take off contaminated clothing and wash it before reuse
 Call a POISON CENTER or doctor/physician if you feel unwell
 If swallowed: Call a POISON CENTER or doctor/physician if you feel unwell
 Rinse mouth
 If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 If eye irritation persists, get medical advice/attention.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS
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Appearance Bluish-green fine powder **Physical State** Solid **Odor** Odorless

Chemical Name	CAS No	Weight-%
Basic Copper Sulfate	1344-73-6	99
Inert	Proprietary	1

4. FIRST AID MEASURES

First Aid Measures

Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin Contact	Wash skin thoroughly with mild soap and water. Remove and wash contaminated clothing before reuse. Get medical attention if necessary.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.
Ingestion	Drink plenty of water or milk immediately. 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.

Most Important Symptoms and Effects, both Acute and Delayed

Symptoms	Inhalation of dust may cause mechanical irritation to the respiratory tract. May cause nausea, vomiting, stomach ache, and diarrhea. May cause severe eye irritation. Causes substantial, but temporary eye damage. May be corrosive to eyes. May cause skin sensitivity.
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Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Dry chemical, CO₂, 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

May burn but does not ignite.

Hazardous Combustion Products If dry heated above 300° C/ 572° F toxic SO₂ may evolve.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions Use personal protection recommended in Section 8.

Methods and Material for Containment and Cleaning Up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Keep in suitable, closed containers for disposal. Do not wash powder away. Recover dry if possible. If product is in a confined solution, pump into a chemical waste container.

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 Mixing with acid will solubilize product producing water soluble products.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Basic Copper Sulfate 1344-73-6	TWA: 1 mg/m ³ Cu dust and mist	-	IDLH: 100 mg/m ³ Cu dust and mist TWA: 1 mg/m ³ Cu dust and mist

Appropriate Engineering Controls

Engineering Controls Apply technical measures to comply with the occupational exposure limits. Use adequate exhaust ventilation to prevent inhalation of product vapors.

Maintain eyewash / safety shower stations in areas where chemical is handled.

Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection	Chemical anti-splash safety goggles.
Skin and Body Protection	Wear suitable gloves. Wear suitable protective clothing.
Respiratory Protection	Avoid breathing dust. Use NIOSH/MSHA approved respiratory protection equipment when airborne exposure limits are exceeded.

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

Physical State	Solid	Odor	Odorless
Appearance	Bluish-green fine powder	Odor Threshold	Not determined
Color	Blue-green		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	Not Applicable	
Melting Point/Freezing Point	300 °C / 572 °F	
Boiling Point/Boiling Range	Not Applicable	
Flash Point	Not Applicable	
Evaporation Rate	Not Applicable	
Flammability (Solid, Gas)	Not Flammable	
Upper Flammability Limits	Not determined	
Lower Flammability Limit	Not determined	
Vapor Pressure	Not Applicable	
Vapor Density	Not Applicable	
Specific Gravity	Not determined	
Water Solubility	Insoluble in water	
Solubility in Other Solvents	Soluble in acids	
Partition Coefficient	Not determined	
Autoignition Temperature	Not determined	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Dynamic Viscosity	Not determined	
Explosive Properties	Not determined	
Oxidizing Properties	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

May burn but does not ignite.

Incompatible Materials

Mixing with acid will solubilize product producing water soluble products.

Hazardous Decomposition Products

If heated above 570° C/ 1058° F product can decompose to emit toxic fumes of oxide and sulfur.

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

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Inert	> 90 mL/kg (Rat)	-	-

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

Toxic to fish and plants. Daphnia LC50 = In excess of 320 ug/l.

Persistence and Degradability

Not determined

Bioaccumulation

Not determined

Mobility

Not determined

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS**Waste Treatment Methods****Disposal of Wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations. Do not reuse container. With prior approval the material can be returned to the manufacturer.

Contaminated Packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Chemical Name	California Hazardous Waste Status
Basic Copper Sulfate 1344-73-6	Toxic

14. TRANSPORT INFORMATION**Note**

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT

Not regulated

IATA

Not regulated

IMDG

Not regulated

15. REGULATORY INFORMATION**International Inventories**

Not Determined

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 %
Basic Copper Sulfate - 1344-73-6	1344-73-6	99	1.0

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Basic Copper Sulfate 1344-73-6 (99)		X		

US State Regulations

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Basic Copper Sulfate 1344-73-6	X		X

16. OTHER INFORMATION

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

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 Revision Note SDS review, Minor changes

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