

SAFETY DATA SHEET

Issue Date 30-Apr-2013 Revision Date 01-May-2013 Version 1

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

Classification

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

The product contains no substances which at their given concentration, are considered to be hazardous to health

Appearance Bluish-green fine powder Physical State Solid Odor Odorless

3. COMPOSITION/INFORMATION ON INGREDIENTS

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

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

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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.

Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians Treat symptomatically.

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	TWA: 1 mg/m ³ Cu dust and mist	-	IDLH: 100 mg/m ³ Cu dust and
1344-73-6			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-spash 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

AppearanceBluish-green fine powderOdorOdorlessColorBlue-greenOdor ThresholdNot determined

Property Values Remarks • Method

Not Applicable Hq 300 °C / 572 °F **Melting Point/Freezing Point Boiling Point/Boiling Range** Not Applicable Flash Point Not Applicable Not Applicable **Evaporation Rate** 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.

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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 WastesDisposal 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	Toxic
1344-73-6	

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including

exemptions and special circumstances.

DOT Not regulated

<u>IATA</u> 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		X		
1344-73-6 (99)				

US State Regulations

U.S. State Right-to-Know Regulations

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

16. OTHER INFORMATION

NFPAHealth HazardsFlammabilityInstabilitySpecial Hazards Not determined PersonalHMISHealth HazardsFlammabilityPhysical HazardsProtection Not determined300determined

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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