
MATERIAL SAFETY DATA SHEET

Common Name **BASIC COPPER SULFATE**

Manufacturer Old Bridge Chemicals, Inc.
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This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200).

SECTION I. MATERIAL IDENTIFICATION

Common Name Basic Copper Sulfate

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

Molecular Formula $\text{CuSO}_4 \cdot 3\text{Cu}(\text{OH})_2 \cdot \text{H}_2\text{O}$

EPA Reg. Number 46923-2

CAS Number 1344-73-6

SECTION II. INGREDIENTS

Elemental Copper (CAS No. 7758-98-7) 53.0%

Inserts (CAS No. N/A) 47.0%

SECTION III. PHYSICAL DATA

Physical State Fine light bluish-green powder

Boiling Point N/A

Melting Point 572° F (decomposes)

Specific Gravity 0.800 - 0.900

Solubility in H₂O Insoluble (soluble in acids)

Appearance Bluish-green fine powder

Odor Odorless

SECTION IV. FIRE AND EXPLOSION DATA

Flash Point	Not applicable
Flammable Limits	Not flammable. If heated above 570° F it can decompose to emit toxic fumes of oxide and sulfur.
Extinguishing Media	Basic Copper Sulfate does not burn nor will it support combustion. Use dry chemical, Carbon Dioxide, foam or water mist or fog. If stored with other combustible products use water, CO ₂ or dry chemical.
Special Fire Fighting Instructions	If dry heated above 300° C, SO ₂ is evolved. If water is used, dike fire control water for later disposal. Keep away from streams or lakes.
Fire and Explosion Hazards	None

SECTION V. REACTIVITY DATA

Stability	Stable at normal temperatures
Conditions to Avoid	May burn, but will not ignite.
Incompatibility	Mixing with acid will solubilize product producing water soluble products.
Hazardous Decomposition Products	None at normal production temperatures and pressures. If dry heated above 300° C toxic sulfur may evolve.
Polymerization	Will not occur.

SECTION VI. HEALTH AND HAZARD INFORMATION

Swallowing	Ingestion can cause diarrhea, vomiting and stomach pain. LD50 (rats) = 1000 mg/kg.
Skin	Certain individuals may be sensitive to copper
Eyes	Severe eye irritant. Causes substantial, but temporary eye damage. May be corrosive to eyes. Eye irritation score: (Unwashed) 24 hours = 14.33 (Unwashed) 48 hours = 13.33 (Unwashed) 72 hours = 3.33 (Unwashed) 7 days = 0
Inhalation	Inhalation of dust may cause irritation to the upper respiration tract.
Carcinogenicity	None as per NTP, OSHA, and IARC.

SECTION VII. FIRST AID PROCEDURES

Swallowing	Give large amounts of milk or water. Induce vomiting. Do not give anything by mouth or induce vomiting if the person is unconscious. Call Poison Control Center or a physician.
Skin	Wash thoroughly with soap and water. Remove and wash contaminated clothing before reuse. Get medical attention if necessary.
Eyes	Immediately flush eyes with plenty of water for 15 minutes. Hold eyelids apart during irrigation. Call a physician.
Inhalation	Remove person to fresh air and call a physician.
Carcinogenicity	None

SECTION VIII. HANDLING PRECAUTIONS

Personal Protective Equipment	Chemical safety goggles. Gloves and protective clothing should be worn to prevent prolonged skin contact.
Respiratory Protection	Wear an approved respirator for dusts or mists.

SECTION IX. ENVIRONMENTAL AND DISPOSAL INFORMATION

Aquatic Toxicity	Daphnia LC50 at = In excess of 320 ug/liter.
Spills and Leaks	Comply with Federal, State and local regulations on reporting spills. Do not wash away the powder. Recover dry if possible. If product is in a confined solution, pump it into a chemical waste container.
Waste Disposal	Do not reuse container. Dispose of powder or solutions and container in accordance with Federal, State and local regulations.
Environmental Effects	Toxic to fish and plants.

SECTION X. SPECIAL PRECAUTIONS

Storage	Store in a dry place.
Other Precautions	None other than those stated in the MSDS or on the package.

SECTION XI. REGULATORY INFORMATION

NOTICE: The information herein is presented in good faith and believed to be accurate. However, no warranty, expressed or implied, is given. Regulatory requirements are subject to change and may differ from one location to another. It is the buyer's responsibility to ensure that its activities comply with Federal, State and local laws.

U.S. REGULATIONS: SARA 313 Information. This product contain the following substance subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372: **COPPER COMPOUND** 53.0%.

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendments and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following category: **AN IMMEDIATE HEALTH HAZARD.**

SECTION XII. SHIPPING INFORMATION

DOT Shipping Name: Non-regulated

SECTION XIII. MSDS PREPARATION INFORMATION

Prepared by Joel L. Goldschmidt, Vice President

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