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MATERIAL SAFETY DATA SHEET

November 1, 2008

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Product Name: BASIC COPPER SULFATE

Manufacturer: Old Bridge Chemicals, Inc.
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HAZARD CLASSIFICATION: NFPA: Health-3 / Fire-0 / Reactivity-0
HMIS: Health-3 / Fire-0 / Reactivity-0

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%
Inert: (CAS No. N/A) 47%

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 H ₂ O:	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° C 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 (male 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 upper respiratory tract
Carcinogenicity:	None as per NTP, OSHA, and IARC.

SECTION IV. FIRST AID PROCEDURES

Ingestion:	Give large amounts of milk or water. Induce vomiting. Do not give anything by mouth or induce
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	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. If not breathing, administer artificial respiration. Get medical attention.
Carcinogenicity:	None.

SECTION VI. 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 VII. ENVIRONMENTAL AND DISPOSAL INFORMATION

Aquatic Toxicity:	Daphnia LC50 at = In excess of 320 ug/l.
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 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 VIII. SPECIAL PRECAUTIONS

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

SECTION IX. REGULATORY INFORMATION

NOTICE: The information herein is presented in good faith and believed to be accurate. However, no warranty, express 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.

SARA 313 Information; This product contains 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 Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following category:

AN IMMEDIATE HEALTH HAZARD

SECTION X. SHIPPING INFORMATION

DOT Shipping Name: Non-regulated.

SECTION XI. MSDS PREPARATION INFORMATION

Prepared By: Joel L. Goldschmidt
Vice President