

**OLD BRIDGE CHEMICALS, INC.
OLD WATERWORKS ROAD
OLD BRIDGE, NJ 08857**

Telephone: 732-727-2225

Facsimile: 732-727-2653

info@oldbridgechem.com

www.oldbridgechem.com

MATERIAL SAFETY DATA SHEET

June 1, 2007

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Product Name: COPPERCIDE 50

Manufacturer: Old Bridge Chemicals, Inc.
P.O. Box 194
Old Bridge, New Jersey 08857

Telephone: (732) 727-2225
Emergency Telephone: (800) 275-3924
24-hour Emergency Telephone: (800) 424-9300 Chemtrec

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200).

SECTION I. MATERIAL IDENTIFICATION

Common Name: Copper Hydroxide
EPA Reg. Number: 46923-3
CAS Number: 20427-59-2

SECTION II. INGREDIENTS

Copper Hydroxide: CAS No. 20427-59-2 77.0%
Elemental Copper: CAS No. 7758-98-7 50.0%
Inerts: CAS No. N/A 50.0%

SECTION III. PHYSICAL DATA

Physical State: Fine light blue powder.
Boiling Point: N/A
Specific Gravity: 8 – 12 lb./cu. ft.
Solubility in H₂O: Insoluble (suspendable powder)
Appearance: Bluish-green fine powder.
Odor: Odorless
Freezing Point: Decomposes
Vapor Pressure: Negligible

SECTION IV. FIRE AND EXPLOSION DATA

Flash Point:	Not applicable.
Flammable Limits:	Not determined.
Extinguishing Media:	Coppercide 50 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:	Wear protective clothing and self-containing breathing apparatus.
Fire and Explosion Hazards:	Decomposes to Copper Oxide and water above 140° F.

SECTION V. REACTIVITY DATA

Stability:	Stable at normal temperatures.
Conditions to Avoid:	May burn, but will not ignite.
Incompatibility:	Not determined.
Hazardous Decomposition Products:	None at normal production temperatures and pressures. If dry heated above 140° F, decomposes into Copper Oxide and water.
Polymerization:	Will not occur.

SECTION VI. HEALTH AND HAZARD INFORMATION

Swallowing:	Slightly toxic by ingestion. Over-exposure may cause nausea, vomiting, diarrhea, vomiting, and stomach pain and central nervous system depression.
Skin :	Certain individuals may be sensitive to copper. Slight skin irritant. Prolonged exposure may cause skin irritation. Not a skin absorption hazard.
Eyes:	Severe eye irritant. Direct contact can cause substantial eye damage. May be corrosive to eyes if eyes are not immediately washed.
Inhalation:	Slightly toxic. Inhalation of dust may cause irritation to the upper respiratory tract. Prolonged exposure may cause cough, mucous, shortness of breath, reflecting metal fume fever.

SECTION VII. FIRST AID PROCEDURES

Swallowing:	Give large amounts of milk, egg white, gelatin solution or water. 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 for 15 minutes. Remove and wash contaminated clothing before reuse. Get medical attention.

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, preferably mouth-to-mouth. Get medical attention.

SECTION VIII. TOXICOLOGICAL INFORMATION

ACUTE

Inhalation: Acute inhalation LC50 = 11.65 mg/L (rat, 1 hour). May cause irritation of the mucous membranes. Exposure to copper fume may result in nausea, vomiting, and metal fever.

Eye Irritation: Severely irritating to eyes. May cause permanent corneal opacity. May be corrosive to eyes if not washed out immediately.

Skin Irritation: May cause slight irritation. May cause itching, eczema and, rarely, sensitization reactions in previously exposed persons.

Ingestion: Oral LD50: 833 mg/Kg (rats). Slightly toxic.

CHRONIC

Repeated ingestion of copper salts may result in anemia, liver damage, and kidney damage. Chronic inhalation may cause metallic taste and irritation of the upper respiratory tract. Chronic cough may result.

SECTION IX. HANDLING PRECAUTIONS

Pesticide applicators and workers must refer to the Product Label and Directions For Use on the package for Agricultural Use Requirements in accordance with EPA Worker Protection Standard 40 CFR Part 1780.

Manufacturing, Blending, and Packaging Workers:

Ventilation: Adequate ventilation should be provided to prevent exceeding ACGI H TLV or OSHA PEL of 1 mg/cubic meter.

Personal Protective Equipment: Chemical safety goggles. Waterproof gloves, long-sleeved shirts, long pants and shoes and socks should be worn to prevent prolonged skin contact.

Respiratory Protection: Wear an approved MSHA/NIOSH approved dust or mist respirator.

SECTION X. ENVIRONMENTAL AND DISPOSAL INFORMATION

Aquatic Toxicity:	Daphnia EC50:	6.5 ppb
	Bluegill LC50:	180,000 ppb
	Fathead Minnow LC50, 96 hours	23 ppb

Avian Toxicity:	Rainbow Trout LC50:	23 ppb
Spills and Leaks:	Bobwhite Quail Acute oral LD50:	>340 mg/Kg
	Comply with Federal, State, and local regulations on reporting spills. Do not wash away 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 contain in accordance with Federal, State, and local regulations.	

SECTION XI. SPECIAL PRECAUTIONS

Storage:	Store below 95° F in a dry place. Do not store near feed or food.
Other Precautions:	None other than those stated in the MSDS or on the package.

SECTION XII. 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.

U.S. REGULATIONS: 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 50.0%

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 ACUTE HEALTH HAZARD

OSHA: This product is considered hazardous under the OSHA Hazardous Communication Standard CFR 1910.1200.

TSCA: All product Components are on the TSCA Chemical Inventory.

CERCLA: Releases of a component of this material (metallic copper, CAS 7440-50-8, RQ 5,000 lbs.) to air, land or water are reportable to the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) or to the state and local emergency planning committee under the Superfund Amendments and Reauthorization Act (SARA) Title III, Section 304.

RCRA: When discarding this material as supplied, it does not meet RCRA's definition of ignitability, corrosivity, or reactivity and is not listed in 40 CFR 261.33.

SECTION XIII. SHIPPING INFORMATION

Department of Transportation (DOT)	Non-regulated
International Air Transport Association (IATA)	Non-regulated
International Maritime Organization (IMO)	

SECTION XIV. MSDS PREPARATION INFORMATION

Prepared By: Joel L. Goldschmidt
Vice President