

**OLD BRIDGE CHEMICALS, INC.
OLD WATERWORKS ROAD
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MATERIAL SAFETY DATA SHEET

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Common Name: MAX ETCH CL STARTER SOLUTION

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

Telephone: (732) 727-2229
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 Chloride
Molecular Formula: CuCl_2
EPA Reg. Number: None
CAS Number: 1344-67-8
SIC Number: 28199 C 29

SECTION II. INGREDIENTS

Copper Chloride
(CAS No. 1344-67-8): 15% - 30%
Hydrogen Chloride
(CAS No. 7647-01-0): 10% maximum
Water: Balance

SECTION III. PHYSICAL DATA

Physical State: Green solution
Boiling Point: 214° F to 230° F
Melting Point: Not applicable
Specific Gravity: 1.20 – 1.35
Solubility in H_2O : Completely
Appearance: Green solution
Odor: Pungent

SECTION IV. FIRE AND EXPLOSION DATA

Flash Point:	Not applicable
Flammable Limits:	Not flammable
Extinguishing Media:	Copper Chloride does not burn nor will it support combustion.
Special Fire Fighting Instructions:	If evaporated and dry residue is heated above 600° C, Cl ₂ + HCL is evolved.
Fire and Explosion Hazards:	None

SECTION V. REACTIVITY DATA

Stability:	Reacts with bases to cause exothermic release.
Conditions to Avoid:	Bases, cellulose, starch, paper, metals, hydrazine and nitromethane.
Incompatibility:	See “Conditions to Avoid” above.
Hazardous Decomposition Products:	Hydrochloric Acid
Polymerization:	Will not occur.

SECTION VI. HEALTH AND HAZARD INFORMATION

Swallowing:	Toxic orally in accordance with FHSLA regulations. Will cause burns of the mouth and throat.
Skin:	Short single exposure may cause severe skin burns.
Eyes:	Corrosive in accordance with FHSLA regulations. May cause severe irritation with corneal injury and result in permanent impairment of vision or even blindness.
Inhalation	Inhalation of mist may cause irritation to the upper respiratory tract.

This product contains Copper Chloride subject to the reporting requirements of Section 13 of the Emergency Planning and Community-right-to-Know-Act of 1986 (40CFR372).

SECTION VII. FIRST AID PROCEDURES

Swallowing:	Give large amounts of milk or water. Do not induce vomiting. Call Poison Control Center or a physician. Never give anything to an unconscious person.
Skin:	Wash thoroughly with soap and water. Call a physician if irritation persists. Remove and wash contaminated clothing before reuse. Remove and destroy contaminated shoes.
Eyes:	Immediately flush eyes with plenty of water for 15 minutes. Hold eye lids apart during irrigation. Call a physician.
Inhalation	Remove person to fresh air and call a physician.

SECTION VIII. HANDLING PRECAUTIONS

Personal Protective Equipment: Chemical safety gloves. Rubber gloves and rubber apron may be worn.
Ventilation: Use positive ventilation.

SECTION IX. ENVIRONMENTAL AND DISPOSAL INFORMATION

Aquatic Toxicity: Copper compounds are very toxic to aquatic life.
Spills and Leaks: Comply with Federal, State, and local regulations on reporting spills. Do not wash away the solution. Recover. If product is in a confined solution, react with Soda Ash to form an insoluble Copper Carbonate solid that can be scooped up.
Waste Disposal: Do not reuse container. Comply with Federal, State, and local regulations. Vacuum up solutions or scoop up insoluble Copper Carbonate and dispose of in an approved landfill.
Environmental Effects: May be dangerous if it enters the public water systems. Follow local regulations. Toxic to fish and plants.

SECTION X. SPECIAL PRECAUTIONS

Storage: Store in plastic drums or plastic storage tank.
Other Precautions: All precautions should be taken to prevent skin and eye contact with this material. Design of equipment and operational procedures should be such that the possibility of skin and eye contact does not exist.

SECTION XI. 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: Approximately 10%

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 XII. SHIPPING INFORMATION

DOT Shipping Name: RQ Corrosive Liquid, Acidic, Inorganic, N.O.S. (Cupric Chloride-Hydrochloric Acid) 8, UN3264, PGII

SECTION XIII. MSDS PREPARATION INFORMATION

Prepared by: Stephen Wolenuk
Laboratory Director