

**Brewer International
Material Safety Data Sheet**

Product Identity: Brewer CopGuard
Emergency Phone: **Chem Tel 800/255-3924**
Manufacturer's Name: **Brewer International**
Address: **P. O. Box 690037, Vero Beach, FL 32969**
Information Phone: 800/228-1833
Dated: September 10, 2002

SECTION 1: Hazardous Ingredients/Identity Information

Phosphoric Acid-CAS#7664-38-2
Copper Sulfate Pentahydrate-CAS#7758-99-8 , micronutrients, F1371

SECTION II: Physical/Chemical Characteristics

Boiling Point: 220 Deg. F	Specific Gravity: 1.18-1.19
Vapor Pressure: 0.1mm 68 Deg. F	Melting Point: N/A
Vapor Density: 1.0	Evaporation Rate: N/A
Solubility in Water: Very Soluble	
Appearance and Odor: Clear Blue Liquid/Mild Odor	

SECTION III: Fire and Explosion Hazard Data

Flash Point: None
Flammable Limits: None

SECTION IV: Reactivity Data

Stability: Stable
Incompatibility:
Materials to avoid: Avoid mixing with strong bases and strong reducing agents.
Hazardous Polymerization: Will Not Occur

SECTION V: Health Hazard Data

Health Hazards: (Acute and Chronic): Avoid breathing fumes, contains elemental copper.
Ingestion may cause acute copper toxicity.

Signs and Symptoms of Exposure: Allergic conditions may occur and skin irritation. Avoid prolonged body contact (use protective clothing).

Medical Conditions Generally Aggravated by Exposure: Phosphoric allergic conditions may occur.

Emergency & First Aid Procedure: Treat as a Phosphorus Base reaction with fresh water.

Eyes: Flush immediately with water for at least 15 minutes. Forcibly hold eyelids apart to ensure complete irrigation of eyelid tissue. Get immediate medical attention.

Skin: Flush immediately with water for at least 15 minutes, while removing contaminated clothing. Get immediate medical attention. Wash clothing before reuse. Destroy contaminated shoes.

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Ingestion: Drink copious amounts of water or milk. Do not induce vomiting. Get immediate medical attention.

Inhalation: Remove to fresh air. If not breathing, perform artificial respiration. Get medical attention immediately.

Effects of Overexposure: Contact with liquid, mist or vapor can cause immediate irritation or corrosive burns to all human tissue. Severity of the burn is generally determined by the concentration of the solution and duration of exposure. Contact with eyes may result in permanent visual loss, unless removed quickly by thorough irrigation with water. Inhalation of concentrated vapor or mist will damage upper respiratory tract and lung tissue. Swallowing may be fatal. Repeated exposure may cause chronic bronchitis or respiratory inflammation. Repeated skin contact with dilute solutions may cause dermatitis.

SECTION VI: Precautions for Safe Handling and Use

STEPS TO BE TAKEN IN CASE OF MATERIAL RELEASE OR SPILLAGE: Flush with water into retaining area or container and neutralize with Bicarbonate of Soda. Shovel or vacuum up chemical and place in an empty metal drum with a cover. Cautiously spray residue with plenty of water. Recover resulting solution or slurry for proper disposal. Keep out of sewer. Any release of the product to the environment may be subject to federal or state requirements. Check with appropriate agencies.

WASTE DISPOSAL METHOD: Neutralize with Bicarbonate of Soda or Lime Stone, and dispose of as a fertilizer grade material. Comply with federal, state and local regulations. If approved, remove to chemical waste.

Procedures to be taken in handling and storage: Avoid storage in excessive heat as expansion of container may occur creating spillage.

Handling: Avoid prolonged or repeated inhalation of dust/vapor and contact with the skin and eyes.

Storage: Protect from physical damage. Keep in a closed, labeled container within a cool, dry well ventilated are. Maintain good housekeeping.

Other Precautions: Keep away from nylon and galvanized equipment.

SECTION VII: Control Measures

Respiratory Protection (Specify Type): Adequate local ventilation where required, use NIOSH approved high efficiency respirator, for type of chemical, or high efficiency dust and mist respirator, as applicable. For some exposures, a NIOSH approved self contained breathing apparatus or supplied air respirator may be necessary.

Ventilation: YES

Local Exhaust: YES

Protective Gloves: YES-Wear rubber apron, boots, gloves and long sleeve shirt and trousers for routine product use. Head and neck should be covered. Contaminated clothing should not be laundered at home.

Other Clothing and Equipment: Workers exposed to concentrated solutions may require more complete protection than indicated above. Provided eyewash and quick drench shower facilities.

Eye Protection: YES

Work/Hygienic Practices: Body shower for prolonged skin contact.

Special Precautions/Procedures/Label Instructions: Wear clean clothes daily. If clothing becomes contaminated, clean clothing should be obtained immediately. Workers exposed to chemicals should avoid leather shoes and gloves, as they can become impregnated with the material.

SECTION VIII: Disclaimer

This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.

Label Signal Word: DANGER

REVISED: January 31, 2005