



American International Chemical, Inc.

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MATERIAL SAFETY DATA SHEET

CUPRIC NITRATE HYDRATE

SECTION 1 - CHEMICAL PRODUCT AND COMPANY INFORMATION

American International Chemical, Inc. 135 Newbury Street Framingham, MA 01701	Emergency Number: Chemtrec Information Number:	800-424-9300 703-527-3887 800-238-0001
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Date: August 2007

Synonyms: Copper (II) Nitrate; Copper Dinitrate

CAS #: 3251-23-8

DOT Hazard Class: UN1477 Oxidizer

SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS

Cupric Nitrate Hydrate 100%

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Blue-green odorless deliquescent crystals, that can cause fire or explosion when in contact with combustible materials. Avoid contact; harmful if swallowed and can cause irritation to the skin and eyes.

POTENTIAL HEALTH EFFECTS:

Skin: Can cause irritation.

Eyes: Can cause irritation.

Inhalation: Can cause difficulty breathing and irritation to the respiratory tract. May cause dizziness and headache.

Ingestion: Can be harmful. May cause nausea, vomiting and unconsciousness.

CHRONIC EFFECTS: None Identified.

Target Organs: None Identified

CARCINOGENICITY: Not Identifiable

SECTION 4 - FIRST AID MEASURES

Skin: Immediately wash skin with soap and water for at least 15 minutes.

Eyes: Immediately flush with plenty of water for at least 15 minutes, holding eye lids apart.

Inhalation: Remove to the fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

Ingestion: Wash out mouth with water.

On All Of The Above: Consult a physician if symptoms persist.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: Non Combustible (Dry Product)

Flammable Limits: Non Applicable

Extinguishing Media: Use media that is appropriate to treat surrounding fire or use water spray.

Special Fire Fighting Procedures: Use fire fighting procedure that is appropriate to treat surrounding fire. All firefighters should use self-contained breathing apparatus and full fire-fighting turnout gear.

Unusual Fire Explosion Hazard: Strong oxidizer. Contact with combustible and flammable materials and powdered metals, can cause fire or explosion. May emit toxic gases in a fire.

Auto Ignition Temperature: Not Applicable

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Isolate hazard area and deny entry to unnecessary or unprotected personnel.

Contain spill, sweep up, collect and place in a disposal container. Avoid runoff into storm sewers and ditches which lead to waterways. Keep combustibles away from spilled material.

SECTION 7 - HANDLING AND STORAGE

Avoid contact with skin, eyes and clothing. Use with adequate ventilation. Avoid breathing dust. Use normal personal hygiene and housekeeping. Store in cool dry area away from other incompatible materials. Product is hygroscopic and should be stored in a dry area to prevent moisture pick up and caking.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

RESPIRATORY PROTECTION: Use NIOSH/MSHA approved respirators.

VENTILATION REQUIREMENTS: Ventilate as necessary to eliminate dust from the work area and maintain concentrations below the limit.

SKIN AND EYE PROTECTION:

Use rubber or neoprene gloves, chemical goggles and clothing sufficient to protect skin from dust.

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SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION cont'd

WORK, HYGIENIC PRACTICES:

As required to protect skin and eyes from dust, safety showers and/or eye wash should be available. Do not leave food or smoke in work area. Wash thoroughly and remove or clean any contaminated clothing.

EXPOSURE LIMITS: None Established

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: Not Applicable

Vapor Pressure (MM Hg): Not Applicable

Vapor Density (AIR=1): 8.3

Specific Gravity (H₂O=1): 2.32

Percent Volatile by Volume (%): 0 (21°C)

Melting Point: 115°C (239°F)

Evaporation Rate (Butyl Acetate=1): Not Applicable

Solubility in Water: Appreciable

pH: Not Applicable

SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal temperatures and pressures.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of nitrogen.

KEEP AWAY FROM: Combustible materials, organic materials, strong reducing agents.

SECTION 11 - TOXICOLOGICAL INFORMATION

Oral - RAT LD₅₀ 940 mg/kg

SECTION 12 - ECOLOGICAL INFORMATION

Not available

SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose of in accordance with all federal, state and local regulations.

RCRA WASTE #: Not Listed

SECTION 14 - TRANSPORTATION INFORMATION

D.O.T. SHIPPING NAME:.....Cupric Nitrate Hydrate
TECHNICAL SHIPPING NAME:.....Nitrates, Inorganic, N.O.S.
U.N./N.A. NUMBER.....1477
D.O.T. HAZARD CLASS AND GROUP NUMBER.... 5.1 P.G. II
D.O.T. LABEL/PLACARD.....5.1 Oxidizer
PRODUCT LABEL.....5.1 Oxidizer

SECTION 15 - REGULATORY INFORMATION

OSHA STATUS: Not Listed

TSCA STATUS: Listed

CERCLA REPORTABLE REQUIREMENTS: (RQ) 100 lbs

SARA TITLE III INFORMATION:

Section 302 Extremely Hazardous Substance: Unlisted
Section 313 Toxic Chemicals: Listed Contains Copper
Section 311/312 Hazard Category: Fire Hazard, Immediate (acute) Health Hazard.

SECTION 16 - OTHER INFORMATION

HMIS Rating: Health 1 Flammability 0 Reactivity 3 Other 0X

Reason for Issue: Changed Date

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