MATERIAL SAFETY DATA SHEET

EM SCIENCE
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JOYCE KILBY/RISK MGMT OF
UNIV OF WISCONSIN-WHITEWATER
800 W. MAIN ST.-LIBRARY RM 2008
WHITEWATER, WI 53190

Preparation Date ........: OCT 27, '87
Date Sent to Customer: ....: MAR 12, '91
Information Phone Number: (609) 354-9200
Chemtrec Emergency Number:
1-800-424-9300

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NFFA HAZARD RATINGS

Health ........: 1 Flammability ....: 0
Reactivity ....: 0 Special Hazards: OXY

Catalog Number(s): CX2155 CX2160 2752 2753

Chemical Name....: Cupric Nitrate
Trade Name........: Copper Nitrate
C.A.S. Numbers: 10031-43-3
Chemical Family.: Metal Salt
Formula..........: Cu(NO3)2.2,(and 1/2)H2O
Molecular Weight: 232.60
DOT Shipping Name: N/A
DOT Number.......: N/A

SECTION II - HAZARDOUS INGREDIENTS

- N/A

SECTION III - PHYSICAL DATA

Boiling Point (°C 760 mm Hg).......: N/A
Melting Point (°C)............: 114.5C
Specific Gravity(H2O = 1)........: N/A
Vapor Pressure (mm Hg)...........: N/A
Percent Volatile by Vol (%)......: N/A
Vapor Density (Air=1)............: N/A
Evaporation Rate (BuAc=1)........: N/A
Solubility in Water (%)..........: Freely
Appearance and Odor.............: blue deliquescent crystals

SECTION IV - FIRE & EXPLOSION HAZARD DATA

Flash Point (°F)..............: N/A
Flammable Limits LEL %......: N/A
Flammable Limits UEL %......: N/A
Extinguishing Media...........: Flood with water in early stages of fire
In larger quantities are involved, nitrate may fuse or melt and
melted material may be scattered by water.
Fire Fighting Proc............: Wear self-contained breathing apparatus and eye protection
Fire & Expl. Hazards..........: May react rapidly and violently with reducing agents, causing
ignition or explosion

SECTION V - HEALTH HAZARD DATA (ACUTE AND CHRONIC)

ACGIH TILV/OSHA PEL (TWA)........: (1978 ACGIH)
1 mg/m3 (as Cu)
Toxicity Data.................: -oral-rat LD50: 940 mg/kg
Symptoms of Exposure.........: Irritating to skin, eyes and mucous membranes
Toxicity by ingestion
Medical Cond. Aggravated by Exp: Data not available.
Routes of Entry.............: Inhalation, ingestion or skin contact.
Carcinogenicity..............: See Comments, Section X; if no informa-
tion appears, the material is not listed as a cancer causing agent.
Emergency First Aid...........: Skin: wash thoroughly with soap/water
Eyes: flush with water 15 minutes; get medical assistance
Inhalation: remove to fresh air; get medical assistance
Ingestion: get medical assistance

SECTION VI - REACTIVITY DATA

Stability...................: YES

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Conditions to Avoid .......
- Avoid prolonged contact with paper, organic materials

Materials to Avoid ........: ( ) Water ( ) Acids
( ) Bases ( ) Corrosives ( ) Oxidizers
( X ) Other ( specify) - Ether, Potassium Ferrocyanide, Tin(& water)

Hazardous Polymerization: Data not available.
Hazardous Decomposition: Decomposes at 338F releasing toxic
gaseous NOx

SECTION VII - ENVIRONMENTAL PROTECTION PROCEDURES

Spill Response:
- Sweep up and containerize for proper disposal

Waste Disposal: To be performed in compliance with all current local,
state and federal regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Ventilation, Respiratory Protection, Protective Clothing, Eye Protection:
- Exhaust ventilation required if material is heated
Respirator may be required
Protect eyes and skin with safety goggles and gloves

SECTION IX - SPECIAL PROTECTION INFORMATION

Handling & Storage ....: 
- Keep container tightly closed
- Protect against physical damage
- Store in a cool, dry place
- Do not store on wood floor or near organic, combustible or readily
  oxidizable materials

This material increases the flammability of any combustible substance

Work/Hygienic Practices: Wash thoroughly after handling. Do not take
internally. Eye wash and safety equipment should be readily available.

SECTION X - OTHER INFORMATION

Comments .................: None
Revision History ........: 07/01/83
N/A = Not available: