



MAR 13 1991

M A T E R I A L S A F E T Y D A T A S H E E T

EM SCIENCE
A Division of EM Industries
P.O. Box 70
480 Democrat Rd.
Gibbstown, N.J. 08027

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

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

NFPA HAZARD RATINGS

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

Catalog Number(s): SECTION I - GENERAL INFORMATION
CX2155 CX2160 2752 2753

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

Residue

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 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
 If large quantities are involved, nitrate may fuse or melt and
 molten 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 TLV/OSHA PEL (TWA).....:
 1 mg/m3 (as Cu) (1978 ACGIH)
Toxicity Data.....:
 -ori-rat LD50: 940 mg/kg
Symptoms of Exposure.....:
 -Irritating to skin, eyes and mucous membranes
 Toxic 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 inform-
 ation 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



MAR 15 1991

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:

The statements contained herein are offered for informational purposes only and are based upon technical data that EM SCIENCE believes to be accurate. It is intended for use only by persons having the necessary technical skill and at their own discretion and risk. Since conditions and manner of use are outside our control, we make NO WARRANTY, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE.