



chemists helping chemists in research & industry

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SHIPPING/RECEIVING DOCK

DATE: 04/24/90
CUST#: 938609
PO#: 65209

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

PAGE 1

IDENTIFICATION

PRODUCT #: 22339-5
CAS #: 19004-19-4
MF: CUN206

NAME: COPPER(II) NITRATE HEMIPENTAHYDRATE, 98%,
A.C.S. REAGENT

SYNONYMS

COPPER DINITRATE * COPPER (II) NITRATE * COPPER(2+) NITRATE * CUPRIC
DINITRATE * CUPRIC NITRATE * CUPRIC NITRATE (DOT) * NA 1479 (DOT) *

TOXICITY HAZARDS

TECS NO: Q07400000

NITRIC ACID, COPPER(2+)SALT

IRRITATION DATA

SKN-RBT 500 MG SEV

EYE-RBT 100 MG SEV

EYE-RBT 100 MG/4S RINSE SEV

FCTOD7 20,563,82

FCTOD7 20,573,82

FCTOD7 20,573,82

TOXICITY DATA

ORL-RAT LD50: 940 MG/KG

EQSSDX 1,1,75

REVIEWS, STANDARDS, AND REGULATIONS

ACGIH TLV-TWA 1 MG(CU)/M3 85INA8 5,146,86

NOHS 1974: HZD 84335; NIS 6; TNF 97; NOS 8; TNE 738

NOES 1983: HZD 84335; NIS 18; TNF 813; NOS 22; TNE 13124; TFE 1746

EPA TSCA CHEMICAL INVENTORY, 1986

ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES (RTECS)
DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR COMPLETE INFORMATION.

HEALTH HAZARD DATA

ACUTE EFFECTS

HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN.
MATERIAL IS EXTREMELY DESTRUCTIVE TO TISSUE OF THE MUCOUS MEMBRANES
AND UPPER RESPIRATORY TRACT, EYES AND SKIN.
INHALATION MAY BE FATAL AS A RESULT OF SPASM, INFLAMMATION AND EDEMA
OF THE LARYNX AND BRONCHI, CHEMICAL PNEUMONITIS AND PULMONARY EDEMA.
SYMPTOMS OF EXPOSURE MAY INCLUDE BURNING SENSATION, COUGHING,
WHEEZING, LARYNGITIS, SHORTNESS OF BREATH, HEADACHE, NAUSEA AND
VOMITING.

FIRST AID

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES OR SKIN WITH COPIOUS
AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED
CLOTHING AND SHOES.
ASSURE ADEQUATE FLUSHING OF THE EYES BY SEPARATING THE EYELIDS
WITH FINGERS.
IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL
RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.
CALL A PHYSICIAN.
REMOVE AND WASH CONTAMINATED CLOTHING PROMPTLY.

CONTINUED ON NEXT PAGE

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PAGE 2

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----- PHYSICAL DATA -----

**MELTING PT: 114 C
SPECIFIC GRAVITY: 2.320
APPEARANCE AND ODOR
BLUE CRYSTALS**

----- FIRE AND EXPLOSION HAZARD DATA -----

**EXTINGUISHING MEDIA
NONCOMBUSTIBLE.
USE EXTINGUISHING MEDIA APPROPRIATE TO SURROUNDING FIRE CONDITIONS.
SPECIAL FIREFIGHTING PROCEDURES
WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO
PREVENT CONTACT WITH SKIN AND EYES.
UNUSUAL FIRE AND EXPLOSIONS HAZARDS
OXIDIZER.
CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE.
EMITS TOXIC FUMES UNDER FIRE CONDITIONS.**

----- REACTIVITY DATA -----

**INCOMPATIBILITIES
REDUCING AGENTS
ORGANIC MATERIALS
HEAT
MOISTURE
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
TOXIC FUMES OF:
NITROGEN OXIDES**

----- SPILL OR LEAK PROCEDURES -----

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED
EVACUATE AREA.
WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY
RUBBER GLOVES.
USE NONSPARKING TOOLS.
SWEEP UP, PLACE IN A BAG AND HOLD FOR WASTE DISPOSAL.
AVOID RAISING DUST.
VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.
WASTE DISPOSAL METHOD
THE MATERIAL SHOULD BE DISSOLVED IN 1) WATER; 2) ACID SOLUTION OR 3)
OXIDIZED TO A WATER-SOLUBLE STATE. PRECIPITATE THE MATERIAL AS THE
SULFIDE, ADJUSTING THE PH OF THE SOLUTION TO 7 TO COMPLETE PRE-
CIPITATION. FILTER THE INSOLUBLES AND DISPOSE OF THEM IN A HAZARDOUS-
WASTE SITE. DESTROY ANY EXCESS SULFIDE WITH SODIUM HYPOCHLORITE.
NEUTRALIZE THE SOLUTION BEFORE FLUSHING DOWN THE DRAIN.
OBSERVE ALL FEDERAL, STATE, AND LOCAL LAWS.**

CONTINUED ON NEXT PAGE

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--- PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE ---

CHEMICAL SAFETY GOGGLES.

HANDLE WITH GLOVES.

SAFETY SHOWER AND EYE BATH.

NIOSH/MSHA-APPROVED RESPIRATOR.

USE ONLY IN A CHEMICAL FUME HOOD.

DO NOT GET IN EYES, ON SKIN, ON CLOTHING.

DO NOT BREATHE DUST.

WASH THOROUGHLY AFTER HANDLING.

CORROSIVE.

KEEP TIGHTLY CLOSED.

DO NOT STORE NEAR, NOR ALLOW CONTACT WITH, CLOTHING AND OTHER

COMBUSTIBLE MATERIAL.

STORE IN A COOL DRY PLACE.

REGULATORY INFORMATION

THIS PRODUCT IS SUBJECT TO SARA SECTION 313 REPORTING REQUIREMENTS.

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE
EXHAUSTIVE AND SHALL BE USED ONLY AS A GUIDE. ALDRICH SHALL NOT BE HELD
RESPONSIBLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE
ABOVE PRODUCT. SEE REVERSE SIDE OF INVOICE OR PACKING SLIP FOR ADDITIONAL
TERMS AND CONDITIONS OF SALE.

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