

chemists helping chemists in research & industry

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DATE: 07/21/92

ST#: 946188 PO#: P0071984 CUST#:

MATERIAL SAFETY DATA SHEET PAGE 1

IDENTIFICATION

PRODUCT #: 30748-3

CAS #:10125-13-0 MF: CL2CU

NAME: COPPER(II) CHLORIDE DIHYDRATE, 99+%, A.C.S. REAGENT

SYNONYMS

COPPER CHLORIDE DIHYDRATE \* COPPERTRACE \*

---- TOXICITY HAZARDS .

RTECS NO: GL7030000
COPPER(2+) CHLORIDE DIHYDRATE
REVIEWS, STANDARDS, AND REGULATIONS
EPA FIFRA 1988 PESTICIDE SUBJECT TO REGISTRATION OR RE-REGISTRATION

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

---- HEALTH HAZARD DATA ---

ACUTE EFFECTS

HARMFUL IF INHALED OR SWALLOWED. CAUSES SKIN IRRITATION. CAUSES EYE IRRITATION.

CAUSES EYE IRRITATION.

CAUSES EYE IRRITATION.

MATERIAL IS IRRITATING TO MUCOUS MEMBRANES AND UPPER
RESPIRATORY TRACT.

DEPENDING ON THE INTENSITY AND DURATION OF EXPOSURE, EFFECTS MAY
VARY FROM MILD IRRITATION TO SEVERE DESTRUCTION OF TISSUE.

EXPOSURE CAN CAUSE:
GASTROINTESTINAL DISTURBANCES

GASTROINTESTINAL DISTURBANCES

EYES DAMAGE TO THE

DAMAGE TO THE LIVER DAMAGE TO THE KIDNEYS

DAMAGE TO THE LUNGS

FIRST AID IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES.
IN CASE OF CONTACT, IMMEDIATELY WASH SKIN WITH SOAP AND COPIOUS IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE DXYGEN. IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS. CALL A PHYSICIAN.

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## SAFETY DATA PAGE MATERIAL SHEET

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PRODUCT #: 30748-3 CAS #:10125-13-0 MF: CL2CU

NAME: COPPER(II) CHLORIDE DIHYDRATE, 99+%,

----- HEALTH HAZARD DATA -----

WASH CONTAMINATED CLOTHING BEFORE REUSE.

TIONAL INFORMATION
CHRONIC COPPER POISONING IS TYPIFIED BY HEPATIC CIRRHOSIS, BRAIN
DAMAGE AND DEMYELINATION, KIDNEY DEFECTS, AND COPPER DEPOSITION IN THE
CORNEA AS EXEMPLIFIED BY HUMANS WITH WILSON'S DISEASE. IT HAS ALSO
BEEN REPORTED THAT COPPER POISONING HAS LEAD TO HEMOLYTIC ANEMIA AND
ACCELERATES ARTERIOSCLEROSIS. ADDITIONAL

---- PHYSICAL DATA -----

SPECIFIC GRAVITY: 2.510 VAPOR DENSITY: APPEARANCE AND ODOR BLUE-GREEN CRYSTALS

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

NGUISHING MEDIA NONCOMBUSTIBLE.

EXTINGUISHING MEDIA APPROPRIATE TO SURROUNDING FIRE CONDITIONS.

CIAL FIREFIGHTING PROCEDURES
FOR FIRES INVOLVING THIS MATERIAL, DO NOT ENTER ANY ENCLOSED OR
CONFINED FIRE SPACE WITHOUT PROPER PROTECTIVE EQUIPMENT. THIS MAY
INCLUDE SELF-CONTAINED BREATHING APPARATUS TO PROTECT AGAINST THE
HAZARDOUS EFFECTS OF THE NORMAL PRODUCTS OF COMBUSTION OR OXYGEN

DEFICIENCY.

UNUSUAL FIRE AND EXPLOSIONS HAZARDS
EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

---- REACTIVITY DATA

INCOMPATIBILITIES

HEAT MOISTURE

ALKALI METALS HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
TOXIC FUMES OF:
HYDROGEN CHLORIDE GAS

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

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED WEAR RESPIRATOR, CHEMICAL SAFETY GOGGLES, RUBBER BOOTS AND HEAVY

CONTINUED ON NEXT PAGE

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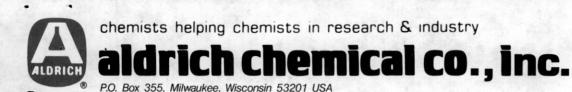
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----- SPILL OR LEAK PROCEDURES -----

RUBBER GLOVES. 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 PRECIPITATION. 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. HAZARDOUS-

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

CHEMICAL SAFETY GOGGLES.

ONG RUBBER OR NEOPRENE GAUNTLET GLOVES.

AFETY SHOWER AND EYE BATH.

USE ONLY IN A CHEMICAL FUME HOOD.

NIOSH/MSHA-APPROVED RESPIRATOR IN NONVENTILLATED AREAS AND/OR FOR EXPOSURE ABOVE THE ACGIH TLV.

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

DO NOT BREATHE DUST.
WASH THOROUGHLY AFTER HANDLING.

TOXIC. IRRITANT.

KEEP TIGHTLY CLOSED.

I ABFI

HYGROSCOPIC
L PRECAUTIONARY STATEMENTS
TOXIC (USA DEFINITION)
HARMFUL (EUROPEAN DEFINITION)
HARMFUL BY INHALATION AND IF SWALLOWED.
IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.
RISK OF SERIOUS DAMAGE TO EYES.

TARGET ORGAN(S):

LIVER

KIDNEYS

IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.
WEAR SUITABLE PROTECTIVE CLOTHING.

CONTINUED ON NEXT PAGE

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

REGULATORY INFORMATION
THIS PRODUCT IS SUBJECT TO SARA SECTION 313 REPORTING REQUIREMENTS.

----- ADDITIONAL PRECAUTIONS AND COMMENTS -----

ADDITIONAL INFORMATION
COPPER(II) CHLORIDE REACTS VIOLENTLY WITH POTASSIUM, SODIUM. CONTACT
WITH ACETYLENE MAY CAUSE FORMATION OF COPPER ACETYLIDES THAT ARE
SHOCK-SENSITIVE.

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