



chemists helping chemists in research & industry

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DATE: 07/21/92
CUST#: 946188
PO#: P0071984

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 #: 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

FEREAC 54,7740,89

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 INHALED OR SWALLOWED.

CAUSES SKIN 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

DAMAGE TO THE EYES

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
AMOUNTS OF WATER.

IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL
RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.

IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.
CALL A PHYSICIAN.

CONTINUED ON NEXT PAGE

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

WASH CONTAMINATED CLOTHING BEFORE REUSE.

ADDITIONAL 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.

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

SPECIFIC GRAVITY: 2.510

VAPOR DENSITY: >1

APPEARANCE AND ODOR

BLUE-GREEN CRYSTALS

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

EXTINGUISHING MEDIA

NONCOMBUSTIBLE.

USE EXTINGUISHING MEDIA APPROPRIATE TO SURROUNDING FIRE CONDITIONS.

SPECIAL 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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----- 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.

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

CHEMICAL SAFETY GOGGLES.

LONG RUBBER OR NEOPRENE GAUNTLET GLOVES.

SAFETY 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.

HYGROSCOPIC

LABEL 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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