

COPPER(II) SULFATE PENTAHYDRATE

MSDS Number

BCZMV

National Stock Number

6505-00-116-1495

Product Name

COPPER(II) SULFATE PENTAHYDRATE

Manufacturer

MALLINCKRODT INC SCIENCE PRODUCTS DIV

Product Identification

Product ID: COPPER(II) SULFATE PENTAHYDRATE

MSDS Date: 04/06/1989

FSC: 6505

NIIN: 00-116-1495

MSDS Number: BCZMV

Responsible Party

MALLINCKRODT INC, SCIENCE PRODUCTS DIVISION

PARIS BYPASS

PARIS , KY 40361

US

Emergency Phone: 314-982-5000

Info Phone: 314-982-5000

Cage: 62910

Contractor

PLASTODENT INC.

BRONX, NY 10461-3306

US

212-792-3554

Cage: 8P273

Ingredients

COPPER SULFATE

CAS: 7758-99-8

RTECS: GL8900000

Fraction By Weight: >98%

OSHA PEL1 MG/M3 (CU DUST)

ACGIH TLV: 1 MG/M3 (CU DUST)

Hazards

LD50 LC50 Mixture: LD50 (ORAL RAT) IS 300 MG/KG

Routes of Entry: Inhalation: YES Skin: YES Ingestion: NO

Reports of Carcinogenicity: NTP: NO IARC: NO OSHA: NO

Health Hazards Acute and Chronic: SEVERE EYE, SKIN, AND MUCOUS MEMBRANE

IRRITANT. POISONING MAY AFFECT THE DIGESTIVE TRACT, RESPIRATORY,

CARDIOVASCULAR AND CENTRAL NERVOUS SYSTEM, LIVER, AND KIDNEYS.

INHALATION: DUST/MIST CAN CAUSE SEVERE BURNING OF RESPIRATORY

TRACT. INGESTION: SEVERE PROBLEMS INCLUDING ABDOMINAL PAIN,

RETCHING, DIARRHEA, DEHYDRATION.

Explanation of Carcinogenicity:THIS MATERIAL IS NOT KNOWN TO BE A CARCINOGEN.

Effects of Overexposure:EYE AND SKIN BURNS DEVELOP IMMEDIATELY. INGESTION MAY CAUSE ABDOMINAL PAIN, NAUSEA, VOMITING, HEMORRHAGING, AND PERFORATION OF ORGANS. INHALATION OF DUST/MIST MAY CAUSE SEVERE RESPIRATORY TRACT IRRITATION, SORE THROAT, COUGH, DYSPNEA.

Medical Cond Aggravated by Exposure:PERSONS WITH A HISTORY OF EYE, SKIN, AND RESPIRATORY DISORDERS MAY BE AT INCREASED RISK FROM EXPOSURE.

First Aid

First Aid:EYE: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15-20 MINUTES. GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP AND WATER. INHALATION: REMOVE TO FRESH AIR. GIVE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF VICTIM IS NOT BREATHING. INGESTION: INDUCE VOMITING IMMEDIATELY BY GIVING TWO GLASSES OF WATER AND STICKING FINGER DOWN THROAT. SEEK MEDICAL HELP.

Fire Fighting

Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL AS APPROPRIATE FOR SURROUNDINGS.

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY. CONTAIN RUNOFF.

Unusual Fire/Explosion Hazard:COMBUSTION OR HEAT OF FIRE MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS AND VAPORS. DO NOT ENTER ENCLOSED SPACE WITHOUT PROPER PROTECTION.

Accidental Release

Spill Release Procedures:WEAR PROTECTIVE EQUIPMENT AND VENTILATE AREA AS REQUIRED. SEEP UP, AND PLACE IN BAG FOR DISPOSAL. VENTILATE AREA AND WASH SPILL SITE AFTER PICKUP IS COMPLETE.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

Handling

Handling and Storage Precautions:STORE IN A COOL, DRY, WELL VENTILATED AREA AWAY FROM SOURCES OF IGNITION. KEEP CONTAINER CLOSED WHEN NOT IN USE. PROTECT FROM PHYSICAL DAMAGE.

Other Precautions:CORROSIVE MATERIAL - AVOID CONTACT.

Exposure Controls

Respiratory Protection:IF VENTILATION DOES NOT MAINTAIN INHALATION EXPOSURES BELOW PEL (TLV), USE NIOSH/MSHA APPROVED RESPIRATOR AS PER CURRENT 29 CFR 1910.134, INSTRUCTIONS/WARNINGS AND NIOSH-RESPIRATOR SELECTION. USE NIOSH APPROVED PARTICULATE FILTERS.

Ventilation:MECHANICAL (GENERAL) VENTILATION IS USUALLY ADEQUATE.

Protective Gloves:LONG RUBBER OR NEOPRENE GAUNTLET

Eye Protection:CHEMICAL SPLASH GOGGLES OR FACE SHIELD

Other Protective Equipment:SAFETY SHOWER AND EYE BATH. INDUSTRIAL TYPE WORK CLOTHING AND APRON AS REQUIRED TO AVOID PROLONGED OR REPEATED CONTACT.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING OR DRINKING. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

CORROSIVE MATERIAL - AVOID CONTACT. DO NOT BREATHE DUST. WASH THOROUGHLY AFTER HANDLING. MATERIAL IS AIR-SENSITIVE AND EFFLORESCENT (LOOSES WATER OF HYDRATION).

Chemical Properties

HCC:N1

Boiling Pt:B.P. Text:>752F,>400C

Spec Gravity:2.284

Evaporation Rate & Reference:SLOWLY EFFLORESCENT

Solubility in Water:APPRECIABLE

Appearance and Odor:BLUE CRYSTALS OR POWDER

Stability

Stability Indicator/Materials to Avoid: YES

FINELY DIVIDED METALS, AND WILL CORRODE STEEL. CAN REACT WITH MAGNESIUM. CAN IGNITE HYDROXYLAMINE.

Stability Condition to Avoid: HIGH TEMPERATURES; MATERIAL IS SENSITIVE TO AIR

Hazardous Decomposition Products: OXIDES OF SULFUR

Disposal

Waste Disposal Methods: DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS. HIGHLY DILUTED AND NEUTRALIZED MATERIAL CAN PROBABLY BE FLUSHED TO WASTE WATER TREATMENT VIA A SEWER.

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.