

MALLINCKRODT INC. SCIENCE PRODUCTS DIVISION -- CUPRIC OXIDE -- 6810-00-241-1172

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Product Identification  
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Product ID:CUPRIC OXIDE

MSDS Date:04/06/1989

FSC:6810

NIIN:00-241-1172

MSDS Number: BDMKY

=== Responsible Party ===

Company Name:MALLINCKRODT INC. SCIENCE PRODUCTS DIVISION

Address:PARIS BYPASS

Box:800

City:PARIS

State:KY

ZIP:40362

Country:US

Info Phone Num:314-539-1600

Emergency Phon

e Num:314-539-1600

CAGE:62910

=== Contractor Identification ===

Company Name:MALLINCKRODT SPECIALTY CHEMICALS CO

Address:222 RED SCHOOL LANE

Box:City:PHILLIPSBURG

State:NJ

ZIP:08865

Country:US

Phone:908-859-2151

CAGE:62910

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Composition/Information on Ingredients  
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Ingred Name:COPPER OXIDE

CAS:1317-39-1

RTECS #:GL8050000

Fraction by Wt: 100%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:1 MG/M3 (DUST CU)

ACGIH TLV:1 MG/M3 (DUST CU)

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Hazards Identif

ication =====

LD50 LC50 Mixture:LD50 (ORAL RAT) IS UNKNOWN.

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

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

Health Hazards Acute and Chronic:ACUTE- INHALATION OF DUST MAY IRRITATE UPPER RESPIRATORY TRACT. INGESTION MAY CAUSE VOMITING AND ABDOMINAL PAIN. THE INSOLUBLE COPPER COMPOUNDS ARE LESS TOXIC THAN SOLUBLE SALTS. EYE CONTACT CAN CAUSE PAIN, DISCOLORATION AND DAMAGE. SKIN CONTACT MAY CAUSE IRRITATION AND PAIN. CHRONIC- MAY CAUSE DERMATITIS.

Effects of Overexposure:RESPIRATORY TRACT IRRITATION, SYMPTOMS SIMILAR TO COMMON COLD INCLUDING CHILLS AND STUFFINESS OF THE NOSE, ABDOMINAL PAIN, NAUSEA, VOMITING, METALLIC TASTE, DIARRHEA, SKIN IRRITATION, REDNESS AND PAIN , EYE IRRITATION, REDNESS, PAIN, DISCOLORATION

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN DISORDERS, EYE PROBLEMS, IMPAIRED LIVER, KIDNEY OR RESPIRATORY FUNCTION OR PERSONS WITH WILSON'S DISEASE MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS PRODUCT.

===== First Aid Measures =====

First Aid:CALL A DOCTOR IF SYMPTOMS PERSIST. EYE:IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES, HOLDING EYELIDS OPEN. SKIN:WASH WITH SOAP & WATER. INHALED:REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED. ORAL:I F CONSCIOUS, DRINK 2 GLASSES OF WATER OR MILK AND INDUCE VOMITING. CALL A PHYSICIAN/POISON CONTROL CENTER IMMEDIATELY.

===== Fire Fighting Measures =====

Flash Point:NOT RELEVANT

Extinguishing Media:WATER SPRAY, CARBON DIOXIDE, FOAM OR DRY CHEMICAL FOR SURROUNDING FIRE. USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS.

Fire Fighting Procedures:WEAR NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS. USE WATER SPRAY TO DISPERSE VAPOR.

Unusual Fire/Explosion Hazard:NOT CONSIDERED TO BE A FIRE HAZARD. LARGE MASSES EXPOSED TO MOIST AIR AT OVER 212F (100C) CAN RESULT IN SP

# ONTANEOUS COMBUSTION.

## ===== Accidental Release Measures =====

Spill Release Procedures:SWEEP, SCOOP OR PICK UP. DO NOT RAISE DUST. PACKAGE FOR RECLAMATION OR RECOVERY. WHATEVER CANNOT BE SAVED FOR RECLAMATION MAY BE DISPOSED IN AN APPROVED LANDFILL. WASH AND VENTILATE SPILL SITE AFTER P ICKUP IS COMPLETE.

Neutralizing Agent:NOT RELEVANT

## ===== Handling and Storage =====

Handling and Storage Precautions:STORE MATERIAL I  
N A COOL, DRY,

VENTILATED AREA AWAY FROM INCOMPATIBLE MATERIALS. KEEP CONTAINER TIGHTLY CLOSED. PROTECT AGAINST PHYSICAL DAMAGE.

Other Precautions:DO NOT RAISE DUST. AVOID CONTACT WITH EYES AND SKIN. AVOID BREATHING DUST. WASH THOROUGHLY AFTER HANDLING MATERIAL. KEEP AWAY FROM REACH OF CHILDREN.

## ===== Exposure Controls/Personal Protection =====

Respiratory Protection:NONE NORMALLY REQUIRED. IF WORKPLACE EXPOSURE LIMIT IS EXCEEDED, A NIOSH APPROVED AIR SUPP  
LIED RESPIRATOR OR DUST  
RESPIRATOR IS ADVISED.

Ventilation:PROVIDE SUFFICIENT MECHANICAL VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S). LOCAL EXHAUST PREFERRED.

Protective Gloves:RUBBER/PLASTIC

Eye Protection:DUST-RESISTANT SAFETY GOGGLES

Other Protective Equipment:EYE WASH STATION, EMERGENCY SHOWER, APPROPRIATE LABORATORY COAT TO COVER EXPOSED SKIN

Work Hygienic Practices:DO NOT PERMIT EATING OR DRINKING NEAR THIS MATERIAL.

Supplemental Safety and Health

## ===== Phy sical/Chemical Properties =====

HCC:N1

Melt/Freeze Pt:M.P/F.P Text:DECOMPOSES

Decomp Temp:Decomp Text:1879F,1026C

Spec Gravity:6.32

Evaporation Rate & Reference:NOT RELEVANT

Solubility in Water:INSOLUBLE

Appearance and Odor:FINE BLACK POWDER - NO ODOR

## ===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

AL, BORON, CESIUM ACETYLENE CARBIDE, HYDRAZINE, MG, K, RUBIDIUM  
ACETYLENE CARBIDE, NA, TITANIUM AND ZIRCONIUM

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ability Condition to Avoid:STABLE UNDER ORDINARY CONDITIONS OF USE  
AND STORAGE.

Hazardous Decomposition Products:NON-HAZARDOUS DECOMPOSITION

===== Disposal Considerations =====

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND  
FEDERAL REGULATIONS OR CONTACT AN APPROVED/LICENSED DISPOSAL  
AGENCY.

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