

# MATERIAL SAFETY DATA SHEET

For R&D use only. Not for drug, household or other uses.

Click <http://www.lookchem.com/cas-190/19004-19-4.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**  
19004-19-4  
**Code:**  
M

**RTECS:**

**Code:**  
X

**Name:**  
COPPER (II) NITRATE

**Other REC Limits:**  
NONE RECOMMENDED

**OSHA PEL:**  
NOT ESTABLISHED  
**Code:**  
M

**OSHA STEL:**

**Code:**

**ACGIH TLV:**  
NOT ESTABLISHED  
**Code:**  
M

**ACGIHSTEL:**  
N/P  
**Code:**

## Control Measures

**Respiratory Protection:**  
NONE NEEDED NORMALLY.

**Ventilation:**  
LOCAL EXHAUST AND MECHANICAL(GENERAL).

**Protective Gloves:**  
VINYL OR RUBBER.

**Eye Protection:**  
SAFETY GLASSES

**Other Protective Equipment:**  
Equipment LAB COAT.

**Work Hygienic Practices:**  
NONE SPECIFIED BY MANUFACTURER.

**Supplemental Safety and Health:**  
PC:39892-00. KEY1:HCC=D4. PER MFG KIT NOT MANUFACTURED ANY MORE,SIZE OF CHEMS UNK.OTHER PARTS SEE CAGES 11273,CENC1,CENC2,CENC3,CENC4 ALL PNIND SAME NSN.

## Health Hazards Data

**LD50LC50Mixture:**  
NONE SPECIFIED BY MANUFACTURER.

**Route Of Entry Inds - Inhalation:**  
YES

**Skin:**  
YES

**Ingestion:**  
NO

**Carcinogenicity Inds - NTP:**  
NO

**IARC:**  
NO

**OSHA:**  
NO

**Health Hazards Acute And Chronic:**  
ACUTE:IRRITATION TO SKIN/EYES/LUNGS/MUCOUS MEMBRANES,AND GI TRACT.WEAKNESS,NAUSEA,MUSCLE SPASMS,CRAMPS,METALLIC TASTE.CHRONIC:DERMATITIS,SYSTEMIC METAL POISONING.LIVER/KIDNEY DAMAGE,ANEMIA,NERVE DMG.

**Explanation Of Carcinogenicity:**  
N/P

**Signs And Symptions Of Overexposure:**  
(WHEN IN DOUBT CALL PHYSICIAN OR LOCAL POISON CONTROL CENTER).IRRIT SKIN/EYES/MUC MEMBRANE/GI TRACT/LUNGS. WEAKNESS,NAUSEA,MUSCLE SPASMS,CRAMPS, METALLIC 3 TASTE.DERMATITIS,SYSTEMIC METAL POISONING,LIVE R/KIDNEY DMG,ANEMIA,NERVE DMG.

**Medical Cond Aggravated By Exposure:**  
NONE SPECIFIED BY MANUFACTURER.

**First Aid:**  
SKIN:WASH THOROUGHLY WITH RUNNING H2O.IRRIT DVLPS GET MED ADVICE.EYE:WASH W/LOTS OF H2O @LEAST 15MINS,LIFT EYELIDS OCCASION.GET MED ATTN IMMED.INHAL:NOT EXPECTED TO BE REQUIRE 1STAD MEASURES.INGEST:I NDUCE VMIT IMMED BY GIVING 2 GLASSES OFH2O,STICKING FINGER DOWN THROAT.NEVER GIVE ANYTHING BY MOUTH IF UNCONSC.CALL PHYSICIAN IMMED.

**Spill Release Procedures:**  
ABSORB FOR RECLAMATION OR DISPOSAL.CLEANUP/DISPOSAL METHODS ARE RECOMMENDATIONS ONLY.CHECK YOUR LOC/STATE/FED REGS.

**Neutralizing Agent:**  
NONE SPECIFIED BY MANUFACTURER.

**Waste Disposal Methods:**  
DISPOSAL:WHATEVER CANT BE SAVED FOR RECLAMATION MAY BE DISPO OF IN RCRA APPROV HAZ WASTE FACILITY.DONT FLUSH TO SEWER.TOXIC TO AQUATIC LIFE.CLEANUP/DISPOSAL METHODS ARE RECOMMENDATIONS ONLY.CHECK YOUR LOC/STATE/FED REGS.

**Handling And Storage Precautions:**  
STORE IN COOL DRY LOCATION.

**Other Precautions:**  
NONE SPECIFIED BY MANUFACTURER.

## Fire and Explosion Hazard Information

**Flash Point Method:**  
N/P

**Flash Point:**

**Flash Point Text:**  
NA

**Autoignition Temp:**

**Autoignition Temp Text:**  
NP

**Lower Limits:**  
NP

**Upper Limits:**  
NP

**Extinguishing Media:**  
4 USE ANY MEDIUM SUITABLE FOR EXTINGUISHING SUPPORTING FIRE.

**Fire Fighting Procedures:**  
IN EVENT OF FIRE WEAR FULL PROTECTIVE CLOTH & NIOSH-APPROV SELF-CONTAIN BREATH APPARATUS W/FULL FCPiece OPERATED IN PRESSURE DEMAND OR OTHER +PRESSURE MODE.

**Unusual Fire/Explosion Hazard:**  
NOT CONSIDERED TO BE A FIRE/EXPLOSION HAZARD.

## Physical/Chemical Properties

**HCC:**  
V1

**NRC/State LIC No:**  
N/R 5

**Net Prop WT For Ammo:**

**Boiling Point:**

**B.P. Text:**  
212F,100C

**Melt/Freeze Pt:**

**M.P/F.P Text:**  
32.0F,0.0C

**Decomp Temp:**

**Decomp Text:**  
NP

**Vapor Pres:**  
NA

**Vapor Density:**  
NA

**Volatile Org Content %:**

**Spec Gravity:**  
1

**VOC Pounds/Gallon:**

**PH:** NP

**VOC Grams/Liter:**

**Viscosity:**  
NP

**Evaporation Rate & Reference:**  
NA

**Solubility in Water:**  
100%

**Appearance and Odor:**  
CLEAR BLUE SOLUTION, NO ODOR

**Percent Volatiles by Volume:**  
NA

**Corrosion Rate:**  
NP

## Reactivity Data

**Stability Indicator:**  
YES

**Stability Condition To Avoid:**  
NONE

**Materials To Avoid:**  
ACIDS

**Hazardous Decomposition Products:**  
NONE KNOWN

**Hazardous Polymerization Indicator:**  
NO

**Conditions To Avoid Polymerization:**  
NONE

## Toxicological Information

**Information:**N/P

## MSDS Transport Information

**Information:**N/P

## Regulatory Information

**Sara Title III Information:** N/P

**Federal Regulatory Information:** N/P

**State Regulatory Information:** N/P

## Other Information

**Other Information:**N/P



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WARRANTY

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