



PO BOX 16458 • FRESNO CA 93755

# MATERIAL SAFETY DATA SHEET

PRODUCT/TRADE NAME:

## FOLI-GRO 5% COPPER

### I. NAME

PRODUCT/TRADE NAME: FOLI-GRO 5% COPPER  
EPA REGISTRATION #: NONE  
CHEMICAL NAME/Common Name:  
Copper Sulfate/Copper Sulfate

### II. HAZARDOUS INGREDIENTS

	CAS#	OSHA PEL	ACGIH TLV
Copper Sulfate	7758-98-7	1 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>

### III. PHYSICAL DATA

SPECIFIC GRAVITY (H<sub>2</sub>O = 1): 1.15  
MELTING POINT: NA  
VAPOR DENSITY (AIR = 1): NA  
% VOLATILES BY VOL.: NA  
ODOR: Odorless  
APPEARANCE: Opaque Brown Liquid  
FLASH POINT/METHOD: NA  
VAPOR PRESSURE (mmHg): NA  
SOLUBILITY IN H<sub>2</sub>O: Miscible

### IV. FIRE & EXPLOSION HAZARD

EXTINGUISHING MEDIA:  Water Fog  Foam  Alcohol Foam  
 CO<sub>2</sub>  Dry Chemical  Other  
FIRE FIGHTING PRECAUTIONS & HAZARDS:  
Fight fire upwind. Wear pressure demand self-contained breathing apparatus and full protective equipment. Avoid breathing smoke, spray mist or dust. Avoid fallout and runoff. Dike to prevent entering drains, sewers, or water courses. Evacuate people downwind from fire.

### V. CARCINOGEN STATUS

OSHA  NTP  IARC  No Listing Type

### VI. REACTIVITY

Stable  HAZARDOUS POLYMERIZATION  
 Unstable  May Occur  Will Not Occur  
AVOID: High humidity, Hydroxylamine, Acids, Magnesium  
HAZARDOUS DECOMPOSITION PRODUCTS: Copper fume, SO<sub>x</sub>, CO<sub>x</sub>

### VII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE OF SPILL: Wear appropriate respiratory and personal protective equipment. Absorb with inert material and vacuum or sweep into an approved disposal container.  
DECONTAMINATION: Treat spill area with detergent and water. Absorb with inert material and place in approved disposal containers. Repeat as necessary until area is clean.  
ENVIRONMENTAL HAZARDS: Dike to prevent entering drains, sewers or water courses.  
DISPOSAL: Dispose of in accordance with Federal, State and local regulations.

### VIII. HEALTH PRECAUTION DATA

INGESTION: Acute oral LD<sub>50</sub> (rat) 300 mg/kg (SAX\*). Do not ingest. Can be fatal. Wash before eating, drinking or smoking. Do not store near feed or food.  
INHALATION: PEL/TLV 1 mg/m<sup>3</sup>. Wear appropriate respiratory protective equipment for exposures above the PEL/TLV. Can irritate mucous membranes.  
SKIN ABSORPTION: Can cause skin irritation producing eczema and itching. Wear proper personal protective equipment to prevent skin exposure.  
EYE EXPOSURE: Can cause eye irritation, conjunctivitis and corneal damage. Wear proper eye protection to prevent eye exposure. If exposed, flush eyes for a minimum of 15 minutes with water.  
EFFECTS OF OVEREXPOSURE: Can irritate skin, eyes and mucous membranes. Can cause diarrhea, nausea, headache, sweating, shock, jaundice, convulsions or coma. Chronic overexposure can cause damage to kidney, liver and spleen. Preexisting medical conditions involving the above symptoms may be aggravated by exposure to this product.  
FIRST AID: In all cases, get prompt medical attention. If ingested, give several glasses of water. Do not induce vomiting. For skin exposure, remove contaminated clothing and wash with soap and water. For eye exposure, irrigate eyes

with water for a minimum of 15 minutes. If inhaled, remove victim to fresh air, and administer CPR if necessary.

### IX. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Use NIOSH/MSHA - approved respirator for pesticides for exposures up to 10 times the PEL/TLV. Positive pressure self-contained breathing apparatus should be used for confined space entry and exposures above 10 times the PEL/TLV.  
PERSONAL PROTECTIVE EQUIPMENT: Neoprene or nitrile gloves, rubber or neoprene boots, long-sleeved coveralls, safety goggles or glasses with side shields and brow protection and hat. For manufacture, formulation and application operations recommend a shower at the end of the work shift.  
VENTILATION: Local exhaust ventilation is recommended for formulation and manufacture. General ventilation sufficient for intended use.

### X. SPECIAL PRECAUTIONS

Keep out of the reach of children. Read and follow all label instructions.

### XI. REGULATORY DATA

SARA HAZARD CLASS:  Acute  Chronic  Flammable  
 Pressure  Reactive  None

SARA 313:  Yes  No Chemical: Copper Compounds

SARA 302:  Yes  No Chemical:

TPQ:

CERCLA:  Yes  No Chemical: Copper Sulfate

RQ: 10\*

RCRA:  Yes  No

NFPA HAZARD RATING:

Health: [2]

Fire: [1]

Reactivity: [0]

Special: [ ]

HMS CODES:

Health: [2]

Fire: [1]

Reactivity: [0]

NFPA HAZARD RATING SCALE:

0 = Minimal 3 = Serious

1 = Slight 4 = Severe

2 = Moderate

HMS HAZARD RATING SCALE:

0 = Minimal 3 = Serious

1 = Slight 4 = Severe

2 = Moderate

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\*Technical Material NE - Not Established NA - Not Applicable

**24 Hour Emergency Phone Number**  
**CHEMTREC: (800) 424-9300**

