

LIQUID COPPER FUNGICIDE MATERIAL SAFETY DATA SHEET

Manufacturer's Name & Address

Southern Agricultural Insecticides, Inc.
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I. PRODUCT IDENTIFICATION

Product Name: SA-50 BRAND LIQUID COPPER FUNGICIDE EPA Reg. No.1812-377-829
Synonyms: Citcop 4E, Tenn.- Cop 4E
Use: Copper Fungicide for use on plants
HAZARD CLASSIFICATION: (0-minimal, 1-slight, 2-moderate, 3-serious, 4-severe)
NFPA: HEALTH-2, FIRE-3, REACTIVITY-0
HMIS: HEALTH-2, FIRE-3, REACTIVITY-0

II. HAZARDOUS INGREDIENTS

% by wt	CAS#	ACGIH (TLV)	OSHA (TWA)
Copper salts of fatty and rosin acids (contains 4% Copper as metallic)	48% 61789-22-8	1 mg/m3 *	1 mg/m3 *
Xylene Range Aromatic petroleum solvent	42% 1330-20-7	435 mg/m3	435 mg/m3

*As copper dusts or mists (CAS# 7440-50-8)

Components not precisely identified are proprietary or not hazardous

III. PHYSICAL PROPERTIES

Boiling Point: 200-212°F Specific Gravity: 0.974
Vapor Density: Not determined. Vapor Pressure: Not determined
Solubility In Water: Emulsifies in water (wide range) pH: (1% soln) Neutral
Appearance/Odor: Dark green liquid, petroleum solvent odor.
Melting Point: Still liquid down to -67o F

IV. FIRE AND EXPLOSION DATA

Flash Point: 94-96° F closed cup; 149° F Penske-Martin. Tag open cup
Flammable Limits: Not determined. Autoignition Temperature: Not determined.
Extinguishing Media: CO₂, sand, dry chemical or other media used for petroleum fires. Water emulsifies product making clean up difficult. Product is slick and sticky. Water spray to cool unbroken containers.
Unusual Fire & Explosion Hazards: No unusual fire or explosion hazards known other than product is flammable. Heat may cause drums to rupture.
Fire Fighting Equipment: Wear protective clothing and self contained breathing apparatus.
Hazardous Combustion Products: Not available

V. FIRST AID

EYE CONTACT: Hold eyelids open and flush with water, until no evidence of chemical remains (at least 15-20 minutes). Get professional medical attention immediately.
SKIN CONTACT: Remove contaminated clothing and shoes. Wash with plenty of soap and water (15-20 minutes) until no evidence of chemical remains. Get professional medical attention immediately.
INHALATION: Remove victim from area. If not breathing, give artificial respiration, preferably, mouth to mouth. Get professional medical attention immediately.
INGESTION: Do not induce vomiting. Get professional medical attention immediately.
NOTE TO PHYSICIAN: Product contains aromatic petroleum solvent; treat accordingly.

VI. POTENTIAL HEALTH EFFECTS

EMERGENCY OVERVIEW: Product is flammable. It is also irritating to eyes and skin and is a skin sensitizer.
Inhalation May cause irritation of the mucous membranes. Exposure to copper fumes may result in metallic taste, nausea, vomiting, and metal fume fever, aching muscles, dry throat and headache.
Eye irritation: May be irritating to eyes, but is reversible.
Skin irritation: Slight skin irritant Excessive exposure, especially if prolonged, may produce skin irritation. Repeated exposure may cause allergic contact dermatitis.
Ingestion: May result in irritation of the gastrointestinal tract, nausea, vomiting, salivation, gastric pain, hemorrhagic gastritis, diarrhea, capillary damage, liver and kidney damage, and central nervous system stimulation, followed by depression.
Jaundice, pain in the liver, and hemolytic anemia have been reported following acute human poisonings.

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VI. Toxicological Information

ACUTE: Inhalation: Exposure to 206.7 mg/L caused no adverse effects.
Eye irritation Eye irritation scores: 0 at 48 and 72 hours
Skin irritation Skin irritant and sensitizer. Primary skin irritation index: 2.50.
Skin absorption Not determined.
Ingestion Oral LD50 between 1000 and 2000 mg/kg (rats)

CHRONIC: Product is not listed by NTP, IARC, nor Registry of Toxic Effects of Chemical Substances as a carcinogen or potential carcinogen.
Special Health Effects: None known

VII. ECOLOGICAL INFORMATION

Test Type: Aquatic EC50: : Species: Pinfish Value 4.9 ppm @24 hours, 1.8 ppm @ 48 hours

VIII. Reactivity & STABILITY

Stability: Stable under normal conditions Material is flammable
Conditions to Avoid: Excessive heat Incompatible Materials: None known.
Hazardous Decomposition Products: None known or expected. On combustion
Copper, Carbon Dioxide, and Water would form.
Hazardous Polymerization: Will not occur.

IX. SPILL OR LEAK MEASURES

Steps To Be Taken If Spilled: Wear protective clothing. Dike and cover spilled material with sweeping compound, dirt or lime.
Sweep up solidified material and place in an appropriate chemical waste container.

X. Special Protection

Respiratory Protection: Only necessary if exposure limits would be exceeded. Avoid breathing vapors.
Ventilation: No special requirements necessary. Product should remain in original container until used.
Gloves: Not known to be necessary. Should be worn with repeated or prolonged contact.
Eye Protection: Chemical goggles, face shield or safety glasses with side shields.
Other Protective Equipment: Clean, body covering, clothing. Product easily stains clothing but may be removed with mineral spirits prior to dry cleaning.

XI. STORAGE & HANDLING

Handling Precautions: Avoid container damage. Do not put leaking containers into storage, Store above 32°F.
Store as a flammable pesticide, in a clean dry area. Keep out of reach of children.

XII. TRANSPORT INFORMATION:

Product is not packaged in packages greater than 1 gallon.
Proper shipping name for domestic motor freight transportation; Consumer Commodity
Hazard class: ORM-D Freight classification; Fungicides NOI, O/T Poison NMFC 102120 ,

XIII REGULATORY INFORMATION

OSHA: This product is considered hazardous under the OSHA Hazardous Communication Standard (29 CFR 1910.1200)
TSCA: CERCLA: All product components are on the TSCA Chemical Inventory. Releases of a component of this material (metallic copper) to air, land, or water are reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304.
RCRA When a decision is made to discard this material as supplied, it meets RCRA's characteristic definition of ignitability, corrosivity, or reactivity, and is listed in 40CFR 261.33.
SARA TITLE III 311/312 Hazard Categories: This product is a hazardous chemical under 29 CFR 1910.1200 and is categorized as an acute health hazard and flammable.. 313 Reportable Ingredients: This product contains a percentage of metallic copper (CAS #7440-50-8) and xylene which are listed in section 313 above de minimis concentrations.

This information relates solely to the this specific material. It does not include combinations with other materials. This information is given without warranty or representation. Information is based on data we believe to be correct as of the date hereof. This information is furnished solely for your consideration, investigation, and verification. Before using any product READ THE LABEL. Last revised: 2/96 This revision 8/97

