

# MATERIAL SAFETY DATA SHEET

FIRST CHOICE® COPPER COUNT N

Page 1 of 4

Issue Date: 02/01

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

### Chemical Product

FIRST CHOICE® COPPER COUNT-N

Common Name:

Chemical Description:

Copper ammonium complex.

TSCA/CAS No.:

23087-46-9

### Manufactured For

Western Farm Service, Inc.

P. O. Box 1168

Fresno, CA 93715

(559) 438-6133

### Emergency Phone Numbers

Emergency Telephone:

CHEMTREC (24-Hour Response): (800) 424-9300

EPA National Response Center:

(800) 424-8802

## SECTION 2. HAZARDOUS INGREDIENTS

<u>CHEMICAL</u>	<u>CAS NO.</u>	<u>%</u>	<u>TLV OR PEL</u>	<u>RQ (lbs)</u>
Copper ammonium complex	7733-02-0	28.0	N.A.*	N.P.*

\*N.A. - Not Available.

N.P. - Not Pertinent.

## SECTION 3. EMERGENCY/HAZARDS OVERVIEW

Dark blue liquid with sweet odor. Extreme heat may cause product to decompose, producing toxic fumes of ammonia. Not D.O.T. regulated.

HEALTH: 1      REACTIVITY: 0      FLAMMABILITY: 0      ENVIRONMENT: 1

(0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme)

## SECTION 4. FIRST AID

- Eyes: Flush immediately with water for at least 15 minutes. Call a physician if eye irritation persists.
- Skin: Wash thoroughly with soap and water. Remove contaminated clothing and wash before reuse. See a physician if skin becomes irritated.
- Ingestion: If conscious and alert, drink water or milk to dilute, then induce vomiting. Call a physician or Poison Control Center immediately.
- Inhalation: Move to fresh air. If breathing becomes difficult, call a physician.

**SECTION 5. FIRE AND EXPLOSION HAZARDS**

Flash Point:	Not available.
Test Method:	Not available.
LEL Flammable Limits:	Not available.
UEL Flammable Limits:	Not available.
Autoignition Temperature:	Not available.
Flammability Classification:	Not available.
Known Hazardous Products of Combustion:	Not known.
Properties that Initiate/Contribute to Intensity of Fire:	None.
Potential For Dust Explosion:	None.
Reactions that Release Flammable Gases or Vapors:	Not known.
Potential For Release of Flammable Vapors:	None.
Unusual Fire & Explosion Hazards:	When heated to decomposition, this product will emit toxic fumes containing ammonia.
Extinguishing Media:	Dry chemical, CO <sub>2</sub> , halon, foam, water.
Special Firefighting Procedures:	Wear positive pressure, self-contained breathing apparatus and goggles. Avoid smoke inhalation. Contain any liquid runoff.

**SECTION 6. SPILLS AND LEAKS**

Containment:	Prevent product spillage from entering drinking water supplies or streams.
Clean Up:	Collect liquid or absorb onto absorbent material and package for disposal.
Evacuation:	Not necessary.

**SECTION 7. STORAGE AND HANDLING**

Storage:	Store in plastic or stainless steel container in a cool, well-ventilated, dry place at temperatures above 40°F. Do not store in contact with aluminum or copper. Do not store near food or feeds. Do not stack pallets more than two (2) high.
Transfer Equipment:	Transfer product using chemical-resistant plastic or stainless steel tanks, pumps, valves, etc.
Work/Hygienic Practices:	Keep out of reach of children. Avoid contact with eyes, skin and clothing. Avoid inhalation of spray mists. Wash thoroughly with water after handling.

**SECTION 8. PERSONAL PROTECTIVE EQUIPMENT**

Eyes:	Chemical dust/splash goggles or full-face shield to prevent eye contact. As a general rule, do not wear contact lenses when handling.
Skin:	Impervious gloves and clothes.
Respiratory:	Not normally needed. If use generates an aerosol mist or respiratory irritation, use NIOSH-approved dust/mist respirator (such as 3M #8710).
Ventilation:	Recommended but no TLV established.

**SECTION 9. PHYSICAL AND CHEMICAL DATA**

Appearance:	Dark blue liquid.
Odor:	Mild vinegar odor.
pH:	Not available.
Vapor Pressure:	Not applicable.
Vapor Density (Air=1):	Not applicable.
Boiling Point:	>100°C (>212°F)
Freezing Point:	Not available.
Water Solubility:	When diluted with water, this product forms a sub-micron gel of hydrated cupric hydroxide.
Density:	9.67 lbs./gal.
Evaporation Rate:	Same as water.
Viscosity:	Not available.
% Volatile:	Not available.
Octanol/Water Partition Coefficient:	Not available.
Saturated Vapor Concentration:	Not available.

**SECTION 10. STABILITY AND REACTIVITY**

Stability:	Stable.
Conditions To Avoid:	Extreme heat and contact with incompatible chemicals.
Incompatibility:	Many copper compounds form highly unstable acetylides. Copper compounds are also reactive with hydrazine. This solution will also be incompatible with water-reactive materials.
Hazardous Decomposition Products:	Extreme heat may cause toxic fumes of ammonia.
Hazardous Polymerization:	Will not occur.

**SECTION 11. POTENTIAL HEALTH EFFECTS**

<u>Acute Effects:</u>	
Eyes:	Eye contact can lead to conjunctivitis (irritation of the membranes of the eye lids), ulceration, and cloudiness of cornea.
Skin:	Mild irritant. May cause redness and/or cracked skin.
Ingestion:	May cause salivation, nausea, vomiting, gastric pain, hemorrhage and diarrhea.
Inhalation:	May cause congestion of the nasal mucous membranes and, on occasion, ulceration with perforation of the nasal septum.
<u>Subchronic Effects:</u>	None known.
<u>Chronic Effects:</u>	Prolonged contact with skin may lead to dermatitis. Chronic inhalation may lead to ulceration and perforation of the nasal septum. Chronic exposures may cause a problem with individuals with Wilson's disease. Wilson's disease is a potentially fatal condition in which an individual's body stores an excessive amount of copper.

**SECTION 12. ECOLOGICAL INFORMATION**

Algal/Lemna Growth Inhibition:	Toxic.
Toxicity to Fish and Invertebrates:	Toxic.
Toxicity to Plants:	Not known.
Toxicity in Birds:	Not known.

**SECTION 13. DISPOSAL**

Do not contaminate lakes, streams, ponds, estuaries, oceans or other waters by discharge of waste effluents or equipment washwaters. Dispose of waste effluents according to state and local regulations. Also, chemical additions or other alterations of this product may invalidate any disposal information in this MSDS. Therefore, consult local waste regulators for proper disposal. Do not discharge.

**SECTION 14. TRANSPORTATION**

D.O.T.:	Not D.O.T. Regulated.
Other Shipping Description:	Fertilizing Compounds (Manufactured), Liquid. (NMFC Item 68140 Sub 6, LTL Class 70)

**SECTION 15. REGULATORY INFORMATION**

<u>CERCLA</u> :	None.
<u>SARA TITLE III, Section 313 Toxic Chemicals</u> :	Copper compounds (28.0).

**SECTION 16. OTHER**

All information appearing in this document was based on data provided by third party sources and was compiled to comply with the Federal Hazard Communication Standard and the California Hazardous Substances Information and Training Act. The information is believed to be accurate as of the preparation date, but is not warranted as being the final authority in the use of this product. This information does not purport to be legal or medical advice.