

MATERIAL SAFETY DATA SHEET

DESERT MICRO BLEND

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Issue Date: 04/06

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Chemical Product

DESERT MICRO BLEND

Common Name: Liquid chelate fertilizer.

Chemical Description: Aqueous solution of copper, iron, manganese and zinc chelates of citrate and ethylenediaminetetraacetate (EDTA).

TSCA/CAS No.: This product is a mixture — there is no specific CAS number.

Manufactured For

Compton Ag Services

2850 S. Peart Road

Casa Grande, AZ 85222

Emergency Phone Numbers

Emergency Telephone: DAYS: (520) 836-7477 EVES.: (520) 836-6866

EPA National Response Center: (800) 424-8802

SECTION 2. HAZARDOUS INGREDIENTS

CHEMICAL	CAS NO.	%	TLV OR PEL	RQ (lbs)
Copper sulfate pentahydrate	7758-99-8	2.00	*N.P.	N.P.
Containing copper sulfate	7758-98-7	1.28	1.0 mg/m ³ Dust/mist as copper	10 lbs.

* N.P. - Not pertinent.

SECTION 3. EMERGENCY/HAZARDS OVERVIEW

Clear, pale brown liquid with no odor. Moderate eye and skin irritant. May cause stomach cramps and/or nausea if ingested. Avoid contact with strong alkalis and/or reactive metals such as aluminum or copper. High temperatures may result in formation of nitrogen oxides. D.O.T. regulated over 74 gallons.

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 pertinent.
Test Method:	Not pertinent.
LEL Flammable Limits:	Not pertinent.
UEL Flammable Limits:	Not pertinent.
Autoignition Temperature:	Not pertinent.
Flammability Classification:	None.
Known Hazardous Products of Combustion:	None.
Properties that Initiate/Contribute to Intensity of Fire:	None.
Potential For Dust Explosion:	None.
Reactions that Release Flammable Gases or Vapors:	None.
Potential For Release of Flammable Vapors:	None.
Unusual Fire & Explosion Hazards:	None.
Extinguishing Media:	Not pertinent.
Special Firefighting Procedures:	Wear positive pressure, self-contained breathing apparatus and goggles. 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 brass. 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:	TWA TLV for copper = 1 mg/l. Provide appropriate ventilation and/or respirators to control level to below TLV.

SECTION 9. PHYSICAL AND CHEMICAL DATA

Appearance:	Clear, pale brown liquid.
Odor:	None.
pH:	1.7 - 2.1
Vapor Pressure:	Not available.
Vapor Density (Air = 1):	< 1.0
Boiling Point:	104°C (220°F)
Freezing Point:	Not available.
Water Solubility:	Soluble.
Density:	10.5 - 10.6 lbs./gal.
Evaporation Rate:	Not available.
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:	Contact with strong alkalies and/or reactive metals such as aluminum and copper.
Incompatibility:	Not available.
Hazardous Decomposition Products:	High temperatures may result in formation of nitrogen oxides.
Hazardous Polymerization:	Will not occur.

SECTION 11. POTENTIAL HEALTH EFFECTS

<u>Acute Effects:</u>	
Eyes:	Moderate irritant. May cause redness and burning.
Skin:	Moderate irritant, especially from prolonged exposure. May cause redness.
Ingestion:	May cause stomach cramps and/or nausea.
Inhalation:	None expected but inhalation of aerosol mist may cause mild irritation of nasal mucous membranes.
<u>Subchronic Effects:</u>	None known.
<u>Chronic Effects:</u>	None known.

SECTION 12. ECOLOGICAL INFORMATION

Algal/Lemna Growth Inhibition:	Not known.
Toxicity to Fish and Invertebrates:	Not known.
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. Information:	< 74 gallons	Not D.O.T. Regulated.
	≥ 74 gallons	Environmentally Hazardous Substance, Liquid, N.O.S., (Cupric Sulfate), 9, UN3082, PG III, RQ 10 lbs.

Other Shipping Description:	Fertilizing Compounds (Manufactured), Liquid. NMFC Item 68140 Sub 6, LTL Class 70
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SECTION 15. REGULATORY INFORMATION

CERCLA: Copper and iron compounds are included as priority pollutants under the Clean Water Act and, as such, fall under the CERCLA spill reporting requirements of 40 CFR 302.

SARA TITLE III, Section 313 Toxic Chemicals: Copper compounds (2.0%), manganese compounds (6.7%) and zinc compounds (8.45%).

PROPOSITION 65 (CA): WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

SECTION 16. OTHER

While the information contained herein is based on data considered accurate and was compiled to comply with the Federal Hazard Communication Standard and the California Hazardous Substances Information and Training Act, it is provided for guidance only. Monterey AgResources does not guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations; in so doing, user assumes all risk in use of the material. The information contained herein is not to be taken as a warranty or representation for which Monterey AgResources assumes legal responsibility.