

Material Safety Data Sheet

May be used to comply with
OSHA's Hazard Communication Standard.
29 CFR 1910.1200. Standard must be
consulted for specific requirements.



IDENTITY OF SUBSTANCE (As Used on Label and List) AVAILA 4	<i>Note: Blank spaces are not permitted, if any item is not applicable, or no information is available, the space must be marked to indicate that.</i>
CHEMICAL NAME Zinc/Copper/Manganese Amino Acid Complexes plus Cobalt Glucoheptonate	

Section I

Manufacturer's Name Zinpro Corporation	Emergency Telephone Number Chemtrec 800 424-9300
Address (Number, Street, City, State, and ZIP Code) 6500 City West Parkway, Suite 300	Telephone Number for Information 612 944-2736
Eden Prairie, MN 55344	Date Prepared February 1996
	Signature of Preparer (optional)

Section II — Hazardous Ingredients/Identity Information

IS THIS PRODUCT HAZARDOUS IN THIS CONCENTRATION UNDER 29 CFR PART 1910.1200? YES NO

IF YES, CHECK HEALTH HAZARD — CARCINOGEN HIGHLY TOXIC SENSITIZER TARGET ORGAN EFFECT
 CORROSIVE IRRITANT TOXIC

OR, CHECK PHYSICAL HAZARD — COMBUSTIBLE LIQUID COMPRESSED GAS EXPLOSIVE
 FLAMMABLE ORGANIC PEROXIDE OXIDIZER
 PYROPHORIC UNSTABLE (REACTIVE) OR WATER-REACTIVE

Hazardous Components (Specific Chemical Identity: Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
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This product contains the following chemicals, which may be subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40 CFR 372:

Component	CAS #
Zinc Oxide	1314-13-2
Cupric Oxide	1317-38-0
Manganous Oxide	1317-35-7
Cobalt Chloride	7440-48-4

Section III — Physical/Chemical Characteristics

Boiling Point Not Applicable	Specific Gravity (H ₂ O = 1) 0.75
Vapor Pressure (mm Hg) Not Applicable	Melting Point Decomposes above 500° F
Vapor Density (Air = 1) Not Applicable	Evaporation Rate (Butyl Acetate = 1) Not Applicable
Solubility in Water Not Soluble	
Appearance and Odor Brown Granular	

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used) Not Applicable	Flammable Limits Not Applicable	LEL N.A.	UEL N.A.
Extinguishing Media Water, Foam, CO ₂ , or Dry Chemical.			
Special Fire Fighting Procedures None Known.			
Unusual Fire and Explosion Hazards None Known.			

Section V — Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	X	

Incompatibility (Materials to Avoid)
Not Applicable

Hazardous Decomposition or Byproducts
Not Applicable

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	

Section VI — Health Hazard Data Based on specific concentration as sold

Route(s) of Entry: Inhalation? May Cause Skin? Contact May Ingestion? Of large amounts
 Irritation. Cause Irritation. may be harmful.

Health Hazards (Acute and Chronic)
None

Carcinogenicity: NTP? IARC Monographs? OSHA Regulated?
 No No No

Signs and Symptoms of Exposure
Prolonged contact with eyes or skin may cause irritation. Prolonged inhalation may cause respiratory irritation.

Medical Conditions
Generally Aggravated by Exposure Respiratory problems.

Emergency and First Aid Procedures
Wash eyes or skin with water. If necessary, seek medical attention.

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled
Recover uncontaminated material for use. Vacuum or sweep remaining material, keeping dust to a minimum.

Waste Disposal Method
Dispose of unreclaimable material in RCRA approved waste facility.

Precautions to Be Taken in Handling and Storage
Use face mask to avoid prolonged inhalation. Avoid prolonged skin contact. Store in dry place. Keep containers closed when not in use.

Other Precautions

Section VIII — Control Measures Specify whether one or more controls are necessary (alone or in combinations)

Respiratory Protection (Specify Type)

Face Mask

Is respiratory protection necessary unnecessary if ventilation identified below is used?
Possibly necessary with prolonged contact.

Ventilation	Local Exhaust X	Special
	Mechanical (General)	Other

Protective Gloves Yes (Specify type) For prolonged contact. Eye Protection Yes (Specify type) For prolonged
 No (rubber gloves) (goggles) No contact in dusty conditions

Other Protective Clothing or Equipment
Not Applicable Hygienic Practices Good personal hygiene reduces possibility of skin irritation. Wash with soap and water after contact.

Is protective clothing necessary unnecessary if other control measures are used?