



PERFORMANCE MINERALS*

SAFETY DATA SHEET

SDS DATE: 05/20/2015

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Availa® Zn 120

Zinc-amino acid complex – Livestock nutritional feed additive

Zinpro Corporation
10400 Viking Drive, Suite 240
Eden Prairie, MN 55344-7265

GENERAL INFO PHONE: ZINPRO 952-944-2736

EMERGENCY PHONE (Spill, Leak, Fire, Exposure, or Accident): CHEMTREC 1-800-424-9300 (US and Canada)
1-703-527-3887 (collect calls accepted)
Reference CCN 725293

SECTION 2: HAZARDS IDENTIFICATION

Classification: Not Classified

Labeling: Not Required

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS NO.	% WT	EPCRA 313
Zinc amino acid complex	None	12% (as Zn)	Yes

SECTION 4: FIRST AID MEASURES

Avoid contact with all workplace chemicals.

- SKIN:** After contact with skin, wash immediately with plenty of soap and water. Remove contaminated clothing and wash before reuse. If irritation develops, get medical attention.
- EYES:** Wash eyes with copious amounts of water. Consult a physician.
- INGESTION:** Wash mouth and throat repeatedly without swallowing. Do not induce vomiting without medical advice. Consult a physician if you feel unwell.
- INHALATION:** Move to fresh air. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical attention. If breathing has stopped, provide artificial respiration.

SECTION 5: FIRE-FIGHTING MEASURES

- SUITABLE EXTINGUISHING MEDIA:** Dry chemical, CO₂, water spray, or foam as appropriate for surrounding materials.
- COMBUSTION PRODUCTS:** Burning may produce irritant fumes such as metal oxides, or toxic gases such as carbon monoxide.
- FIRE FIGHTING PROCEDURES:** Self-contained breathing apparatus in enclosed areas. Do not inhale combustion gases. Do not flush into storm drains.
- UNUSUAL FIRE AND EXPLOSION HAZARDS:** All granular materials have the potential to create a fire hazard if dust is generated during handling.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- PERSONAL PRECAUTIONS:** Use personal protective equipment including gloves and safety glasses or face shield when handling this product. When handling, do not eat, drink, or smoke.
- ENVIRONMENTAL PRECAUTIONS:** Prevent product from entering drains.
- METHODS FOR CLEANING:** Carefully sweep up and recover uncontaminated material for re-use. Scoop remaining waste into suitable, labeled container for disposal.

SECTION 7: HANDLING AND STORAGE

- HANDLING AND STORAGE:** Use only in an area provided with adequate ventilation. Use personal protective equipment when handling this product. Remove and wash contaminated clothing before re-use. Store in tightly closed container at room temperature in a dry location.
- OTHER PRECAUTIONS:** ALWAYS minimize the generation of dust when handling. This product contains metal compounds. Do not mix with acids or oxidizers except under controlled conditions.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Potential workplace routes of exposure include inadvertent, incidental oral ingestion and inadvertent, incidental dermal contact. Inhalation is not a significant route of exposure.

EXPOSURE GUIDELINES:**U.S. Occupational Safety and Health Administration**

<u>Substance</u>	<u>Permissible Exposure Level</u>
Zinc-amino acid complex	None listed
Zinc dust	None listed
Nuisance dust (total)	15.0 mg/m ³ (TWA)
Nuisance dust (respirable fraction)	5.0 mg/m ³ (TWA)

- ENGINEERING CONTROLS:** Use only in a well-ventilated area to prevent exposure from exceeding regulatory levels.
- RESPIRATORY PROTECTION:** Protection is needed only when dust is formed. Use a mask suitable for dust. Proper handling to minimize dust is required. Do not smoke when handling this product.
- EYE PROTECTION:** Goggles or safety glasses with side-shields.
- SKIN PROTECTION:** Gloves
- WORK HYGIENIC PRACTICES:** Do not eat or drink when handling this product.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Brown, granular	PERCENT SOLIDS BY WEIGHT:	100%
ODOR:	Sweet, organic	PERCENT VOLATILE:	0%
PHYSICAL STATE:	Solid	VOLATILE ORGANIC CMPDS (VOC):	0%
pH:	NA	FLAMMABLE LIMITS IN AIR UPPER: (% BY VOLUME)	NA
MELTING POINT:	>200 °C	FLAMMABLE LIMITS IN AIR LOWER:	NA
SPECIFIC GRAVITY (H₂O=1):	0.620 at 20°C	FLASH POINT:	>200 °C
SOLUBILITY IN WATER:	Active product is water soluble Carrier is insoluble	AUTOIGNITION TEMPERATURE:	>200 °C

SECTION 10: STABILITY AND REACTIVITY

STABILITY:	This product is stable under recommended storage conditions and in normal use.		
CONDITIONS TO AVOID (STABILITY):	Avoid generation of dust while handling. As with all dusts, particularly those containing metals, finely divided airborne material may explode or burn when exposed to source of ignition.		
INCOMPATIBILITY (MATERIAL TO AVOID):	Organic and metallic compounds are incompatible with acids and strong oxidizers. Potentially violent reactions may occur on mixing with these materials.		
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:	Thermal decomposition may release irritating gases, such as metal oxides, or toxic gases, such as carbon monoxide.		
HAZARDOUS POLYMERIZATION:	None		

SECTION 11: TOXICOLOGICAL INFORMATION

Essential trace minerals are not a health hazard at low concentrations. This product contains one or more nutritionally-significant metals in organic complexes. The ingredients of this mixture have been evaluated in accordance with the Health Hazard criteria of the Globally Harmonized System of Classification and Labeling of Chemicals. The following information pertains to the individual mineral components of this product, but note that the product, as supplied contains no free metals.

Acute Toxicity: (Not Classified)	Acute toxicity estimate (ATE) for this mixture: LD ₅₀ (oral) = 5,250 mg/kg
	Acute toxicity data for metal constituents, LD ₅₀ (oral, rat): Zinc 630 mg/kg

Sub acute/Chronic Effects associated with mineral components:

Skin Sensitizer:	Not Classified
Carcinogenicity:	Not Classified
Mutagen:	Not Classified
Skin Irritant:	Not Classified. Contains zinc in the mixture at a concentration >10% by weight. Skin irritation has been associated with exposure to inorganic zinc salts.
Eye Irritant:	Not Classified. Contains zinc in the mixture at a concentration >10% by weight. May cause eye irritation. Serious eye damage has been associated with exposure to inorganic zinc salts.
Reproductive Toxicity:	Not Classified
Target Organ:	Not Classified
Aspiration toxicity:	Not Classified

SYMPTOMS OF OVEREXPOSURE to trace minerals: Irritation or burning of nose, throat, or skin; stomach cramps, nausea, vomiting, diarrhea, behavior changes, deterioration of motor skills.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY OVEREXPOSURE: Asthma or other respiratory problems, existing dermatitis

SECTION 12: ECOLOGICAL INFORMATION

This product contains zinc, a metal that occurs naturally throughout the environment, in rocks, soil, and water and is an essential element in plants and animals. Inorganic zinc and zinc compounds have been utilized commercially as fungicides, algacides, microbiocides, and wood preservatives, illustrating that targeted ecological effects of such materials do occur. There is no data regarding the actual eco-toxicity of the metal-amino acid complexes in this product, which is formulated and approved for ingestion by livestock.

SECTION 13: DISPOSAL CONSIDERATIONS

This product is not a hazardous waste when disposed. As with all waste materials, it is recommended that residuals of this product and the container be disposed in a responsible manner at a licensed landfill or recycling center.

SECTION 14: TRANSPORT INFORMATION

This product is not listed or categorized as a hazardous material for transport in the U.S. at 49 CFR 172.101.

SECTION 15: REGULATORY INFORMATION

Mineral-amino acid complexes are not specifically regulated under any of the listed programs. The metallic component as a free metal or metal compound is regulated as follows:

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT) listed: Zinc and zinc compounds

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): No RQ is assigned, although the class is a CERCLA hazardous substance.

EPCRA (EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT):

302 EXTREMELY HAZARDOUS SUBSTANCE TPQ: Not EHS

304 EXTREMELY HAZARDOUS SUBSTANCE RQ: Not EHS

311/312 HAZARD CATEGORIES: Acute: No Chronic: No Fire: No Pressure: No Reactivity: No

313 REPORTABLE INGREDIENTS: Zinc cmpds N987 >1.0% by weight; Zinc as dust or fume >1.0% by weight

CLEAN AIR ACT AMENDMENTS Section 112: Not listed as Hazardous Air Pollutant in Section 112 of the CAAA.

STATE REGULATIONS: Refer to individual state agency for information.

INTERNATIONAL REGULATIONS: Refer to European Chemical Substance Information System (ESIS)
Refer to Australian Hazardous Substance Information System (HSIS)

SECTION 16: OTHER INFORMATION**OTHER INFORMATION:****NFPA HAZARD CLASSIFICATION**

HEALTH: 0 FLAMMABILITY: 1 REACTIVITY: 0

HMIS HAZARD CLASSIFICATION

HEALTH: 0 FLAMMABILITY: 1 PHYSICAL: 0 PROTECTION: 1B

PREPARATION INFORMATION:

Centers for Disease Control (CDC) Agency for Toxic Substances and Disease Registry (ATSDR)

National Fire Protection Association (NFPA)

Hazardous Materials Information System (HMIS)

U.S. EPA Chemical Emergency Preparedness and Prevention Office (CEPPO) List of Lists

U.S. EPA Substance Registry Service (TSCA)

U.S. Dept of Labor Occupational Safety & Health Administration (OSHA) 29 CFR 1910.1000

U.S. Dept of Transportation (DOT) 49 CFR 172.101

DISCLAIMER: The information expressed in this document regarding this product is believed to be reliable. However, no guarantee or warranty of any kind, express or implied, concerning the use of this product is intended.