

# SAFETY DATA SHEET

SDS DATE: 05/20/2015

SECTION 1: IDENTIFICATION

Availa® Sow

Amino acid complexes of zinc, manganese, & copper Livestock nutritional feed ingredient

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: HAZARD(S) IDENTIFICATION

Classification:

Not Classified

Labeling:

**Not Required** 

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS				
INGREDIENT	CAS NO.	% WT	EPCRA 313	
Copper amino acid complex	None	1.34% (as Cu)	Yes	
Zinc amino acid complex	None	6.67% (as Zn)	Yes	
Manganese amino acid complex	None	2.67% (as Mn)	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.

SAFETY DATA SHEET SDS DATE: 05/20/15

SECTION 5: FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Dry chemical, CO<sub>2</sub>, water spray, or foam as appropriate for surrounding materials.

COMBUSTION PRODUCTS: Burning may produce irritant furnes 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 greate 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 centains 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

# Substance Permissible Exposure Level

Copper-amino acid complex
Copper dust
Complex

ENGINEERING CONTROLS: Use only in a well-ventilated area to prevent exposure from exceeding regulatory levels.

RESPIRATORY PROTECTION: Protection is needed only when cust 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.

SAFETY DATA SHEET SDS DATE: 05/20/15

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Gray 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: NA

(% BY VOLUME) LOWER: NA MELTING POINT: >200 °C

FLASH POINT: >200 °C

SPECIFIC GRAVITY (H2O = 1): 0.608 at 20°C

AUTOIGNITION TEMPERATURE: >200 °C

SOLUBILITY IN WATER: Active product is water soluble;

Carrier is insoluble

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, finally divided airborne material may explode or burn when exposed to a source of

ignition.

INCOMPATIBILITY (MATERIALS TO AVOID): Organic and metallic compounds are incompatible with acids and strong exidizers.

Potentially violent reactions may occur on mixing with these materials.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Thermal decomposition may release irritating gases, such as metal exides, or

toxic gases, such as carbon monoxide.

taxio years, addit de delicon inchesion

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 portains 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<sub>50</sub> (oral) = 6.110 mg/kg

Acute toxicity data for metal constituents, LD<sub>50</sub> (oral, rat): Copper ~244 mg/kg

Manganese 9000 mg/kg Znc 630 mg/kg

Sub acute/Chronic Effects associated with mineral components:

Skin Sensitizer: Not Classified Cardinogenicity: Not Classified Mutagen: Not Classified Skin Irritant: Not Classified Eye Irritant: Not Classified

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: Astrima or other respiratory problems, existing derinatitis

SDS DATE: 05/20/15 SAFETY DATA SHEET

## SECTION 12: ECOLOGICAL INFORMATION

This product contains copper, zinc, and manganese. These are metals that occur naturally throughout the environment, in rocks, soil, and water and are essential elements in plants and animals. Inorganic compounds containing these metals have seen utilized commercially as fungicides, algaecides, microbiocides, and wood preservatives, illustrating that targeted ecological effects of such materials do occur. There is no data regarding the actual eco-poxicity of the metal-amine 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 as defined by 40 DFR 260 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

Minoral-amino acid complexes are not specifically regulated under any of the listed programs. The metallic components as tree metals or metal compounds are regulated as follows:

## U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT) listed: Cooper and copper compounds

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): particles <0.004 in diameter RO 5000 lb

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

302 EXTREMELY HAZARDOUS SUBSTANCE TPO:

304 EXTREMELY HAZARDOUS SUBSTANCE RQ: Not EHS

311/312 HAZARD CATEGORIES: Acute: No - Chronic: Yes Fire; No. Pressure: No. Reactivity: No.

313 REPORTABLE INGREDIENTS: Copper compounds N100 >1.0% by weight

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

## ILS FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT) listed: Manganese and compounds

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): No RO is assigned, although the class is a

ÇERCLA hazardous substance.

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

302 EXTREMELY HAZARDOUS SUBSTANCE TPQ: 304 EXTREMELY HAZARDOUS SUBSTANCE RQ:

Not E=8

Not FHS

Not EHS

311/312 HAZARD CATEGORIES: Acute: No

Chronic: Yes

Fire: No Pressure: No Reactly ty: No

313 REPORTABLE INGREDIENTS: Manganese compounds N450 >1.0% by weight

CLEAN AIR ACT AMENDMENTS Section 112: Manganese may be subject to regulation if emitted to the air.

## U.S. FEDERAL REGULATIONS

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

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): No RO is assigned, although the class is a

CERCLA hazardous substance.

## EPORA (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: Chronic: No. Fire: No. Pressure: No. Acute: No. Reactivity: No

313 REPORTABLE INGREDIENTS: Zinc cmpds N987 >1.0% by weight; Zinc as fume or dust, >1% 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.

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

Refer to Australian Hazardous Substance Information System (HSIS)

SDS DATE: 05/20/15 SAFETY DATA SHEET

SECTION 16: OTHER INFORMATION

DO NOT FEED TO SHEEP OR RELATED SPECIES OTHER INFORMATION:

NFPA HAZARD CLASSIFICATION

FLAMMABILITY: 1 REACTIVITY: **HEALTH:** 0

HMIS HAZARD CLASSIFICATION

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

## 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 (CSHA) 29 CFR 1910.1000 U.S. Dept of Transportation (DOT) 49 CFR 172.101

The information expressed in this occurrent 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. DISCLAIMER: