

## MATERIAL SAFETY DATA SHEET

### **SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

# Availa® Plus

Livestock nutritional feed additive

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

CHEMTREC PHONE:

800-424-9300

INFO PHONE:

952-944-2736

### **SECTION 2: HAZARDS IDENTIFICATION**

EMERGENCY OVERVIEW: Avoid exposure to all workplace chemicals. Obtain manufacturer's instructions before use. In case of accident

or if you feel unwell, seek medical advice immediately and show the product label where possible.

**ROUTES OF ENTRY:** 

Ingestion, inhalation.

#### POTENTIAL HEALTH EFFECTS

EYES:

May irritate eyes.

SKIN:

May irritate skin.

INGESTION:

May irritate mucous membranes.

INHALATION:

Irritation of nose, mouth, and throat may occur.

ACUTE HEALTH HAZARDS: None

**CHRONIC HEALTH HAZARDS:** 

Breathing high levels of trace metals can cause irritation of your nose and throat and aggravate athsma. Ingesting high levels of copper can cause nausea, vomiting, and diarrhea. Very-high doses of copper can cause damage to your liver and kidneys. Inhaling or ingesting high levels of manganese can affect behavior and cause deterioration of motor skills. Ingesting high levels of zinc can cause stomach cramps, nausea, and vomiting. Very high doses of zinc can cause anemia and affect cholesterol levels. Very high doses of cobalt can cause damage to your liver and kidneys.

Very high doses of iodine can produce hyperthyroidism.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

Respiratory problems, existing dermatitis

CARCINOGENICITY:

The International Agency for Research on Cancer (IARC) has determined that cobalt and cobalt compounds are possibly carcinogenic to humans.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

	SARA 313				
INGREDIENT	CAS NO.	% WT	REPORTABLE	<b>OSHA PEL-TWA</b>	<b>ACGIH TLV-TWS</b>
Copper amino acid complex	None	1.0% (as Cu)	Yes	Cu dust 1.0 mg/m <sup>3</sup>	1.0 mg/m <sup>3</sup>
Zinc amino acid complex	None	6 % (as Zn)	Yes	Zn dust 10.0 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>
Manganese amino acid complex	None'	2% (as Mn)	Yes	Mn Cmpds 5 mg/m <sup>3</sup>	0.2 mg/m <sup>3</sup>
Cobalt glucoheptonate	None	0.1% (as Co)	Yes	Co dust 0.2 mg/m <sup>3</sup>	0.2 mg/m <sup>3</sup>
Limestone (primarily calcium carbonate)	1317-65-3	16-18%%	No	15 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>
Potassium Iodine	7789-80-2	<0.13% (as I)	No	None	None

# **MATERIAL SAFETY DATA SHEET**

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **EXPOSURE GUIDELINES:**

Source	Substance	PEL
Occupational Safety & Health Administration	Nuisance dust (total)	15.0 mg/m <sup>3</sup> (TWA)
Occupational Safety & Health Administration	Nuisance dust (respirable fraction)	5.0 mg/m <sup>3</sup> (TWA)
Occupational Safety & Health Administration	Zinc dust	10.0 mg/m <sup>3</sup> (TWA)
Occupational Safety & Health Administration	Zinc dust (respirable fraction)	5.0 mg/m <sup>3</sup> (TWA)
Occupational Safety & Health Administration	Limestone (dust)	15.0 mg/m <sup>3</sup> (TWA)
Occupational Safety & Health Administration	Limestone (respirable fraction)	5.0 mg/m <sup>3</sup> (TWA)
Occupational Safety & Health Administration	Manganese compounds	5.0 mg/m <sup>3</sup> (TWA)
Occupational Safety & Health Administration	Iodine	1.0 mg/m <sup>3</sup> (TWA)
Occupational Safety & Health Administration	Copper dust	1.0 mg/m <sup>3</sup> (TWA)
Occupational Safety & Health Administration	Cobalt dust	0.2 mg/m <sup>3</sup> (TWA)

**ENGINEERING CONTROLS:** 

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

RESPIRATORY PROTECTION:

Breathing apparatus is needed only when aerosol is formed. Use a mask suitable for aerosol. Proper handling to minimize aerosol is required. Do not smoke when handling this product.

**EYE PROTECTION:** 

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

ODOR:

Sweet, organic

PHYSICAL STATE:

Solid

pH:

NA

**MELTING POINT:** 

>200 °C

SPECIFIC GRAVITY (H2O = 1):

0.70 at 20°C

**SOLUBILITY IN WATER:** 

Active product is water soluble; Carrier is insoluble

PERCENT SOLIDS BY WEIGHT:

100%

PERCENT VOLATILE:

0%

**VOLATILE ORGANIC COMPOUNDS (VOC):** 

0%

### **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 of solid residue may release irritating gases, such as

metal oxides, or toxic gases, such as carbon monoxide.

HAZARDOUS POLYMERIZATION:

None

# **MATERIAL SAFETY DATA SHEET**

U.S. FEDERAL REGULATIONS

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

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

Not EHS

CERCLA hazardous substance.

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

302 EXTREMELY HAZARDOUS SUBSTANCE TPQ:

304 EXTREMELY HAZARDOUS SUBSTANCE RQ: Not EHS

311/312 HAZARD CATEGORIES: Chronic: Yes Acute: No

Fire: No Pressure: No Reactivity: 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 RQ is assigned, although the class is a

CERCLA hazardous substance.

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

302 EXTREMELY HAZARDOUS SUBSTANCE TPQ:

Not EHS

Not EHS

311/312 HAZARD CATEGORIES:

304 EXTREMELY HAZARDOUS SUBSTANCE RQ:

Acute: No

Chronic: Yes

Fire: No Pressure: No Reactivity: No

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

**CLEAN AIR ACT AMENDMENTS Section 112:** 

Not listed as Hazardous Air Pollutant in Section 112 of the CAAA.

**U.S. FEDERAL REGULATIONS** 

TSCA (TOXIC SUBSTANCE CONTROL ACT) listed: Cobalt and cobalt compounds

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):

No RQ is assigned, although the class is a

CERCLA hazardous substance.

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

302 EXTREMELY HAZARDOUS SUBSTANCE TPQ:

Not EHS

304 EXTREMELY HAZARDOUS SUBSTANCE RQ: 311/312 HAZARD CATEGORIES:

Not EHS

Chronic: Yes

Fire: No Pressure: No Reactivity: No

313 REPORTABLE INGREDIENTS:

Acute: Yes

Cobalt compounds N096 > 0.1% by weight

**CLEAN AIR ACT AMENDMENTS Section 112:** 

Cobalt may be subject to regulation if emitted to the air.

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:

DO NOT FEED TO SHEEP OR RELATED SPECIES

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

Pesticide Network Database

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.