



Availa Mn 80

SECTION 1: IDENTIFICATION

1.1. Product identifier	
Trade name	Availa Mn 80
1.2. Relevant identified uses of the substance or mixture and uses advised against	
Relevant identified uses of the substance or mixture	Nutritional feed ingredient
Uses advised against	None known.
1.3. Details of the supplier of the safety data sheet	
Company and address	ZINPRO 10400 Viking Drive, Suite 240 MN 55344 Eden Prairie USA Tel: + 01 952-983-4000 www.zinpro.com
E-mail	zinpro@zinpro.com
SDS date	12/15/2022
SDS Version	1.0
1.4. Emergency telephone number	Contact the poison control at 1-800-222-1222 (24/7) or use the webPOISONCONTROL® (triage.webpoisoncontrol.org) to get specific guidance for your case See also section 4 "First aid measures".

SECTION 2: HAZARD(S) IDENTIFICATION

OSHA/HCS status	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)
Classification of the substance or mixture	STOT RE 2; H373, May cause damage to organs through prolonged or repeated exposure.
2.2. Label elements	
Hazard pictogram(s)	
Signal word	Warning
Hazard statement(s)	May cause damage to organs through prolonged or repeated exposure. (H373)
Safety statement(s)	
General	-
Prevention	Do not breathe dust. (P260)
Response	Get medical advice/attention if you feel unwell. (P314)
Storage	-
Disposal	Dispose of contents/container in accordance with local regulation . (P501)
Additional labelling	Not applicable.
2.3. Other hazards	
Additional warnings	This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances	Not applicable. This product is a mixture.
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3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
Manganese amino acid complex (as manganese)	CAS No.:	5-10%	STOT RE 2, H373	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

None known.

SECTION 4: FIRST-AID MEASURES

4.1. Description of first aid measures

General information

If breathing is irregular, drowsiness, loss of consciousness or cramps: Call 911 and give immediate treatment (first aid).

Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

Eye contact

If skin irritation occurs: Get medical advice/attention.

Upon irritation of the eye: Remove contact lenses and open eyes widely. Flush eyes with water or saline water (20-30°C) for at least 5 minutes. Seek medical assistance and continue flushing during transport.

Ingestion

Provide plenty of water for the person to drink and stay with him/her. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.

Burns

Not applicable.

4.2. Most important symptoms and effects, both acute and delayed

None known.

4.3. Indication of any immediate medical attention and special treatment needed

None known.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the Poison Help Line on 1-800-222-1222 (24/7) in order to obtain further advice.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.



6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

6.3. Methods and material for containment and cleaning up

Minor spills are collected with a cloth. Collection and disposal of the material shall be done with minimum creation of dust. Sweep and collect. Shall be contained in suitable and tightly closed disposal containers. Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.
See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid direct contact with the product.
Smoking, drinking and consumption of food is not allowed in the work area.
See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
Powder trickling out onto the floor or onto other containers must be prevented.

Recommended storage material

Storage temperature

Incompatible materials

Keep only in original packaging.
Dry, cool and well ventilated. Shelf life: 3 years

Strong acids
Keep only in original packaging.
Strong oxidizing agents

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Manganese amino acid complex (as manganese)
Short term exposure limit (STEL) (NIOSH REL) (mg/m³): 3
Long term exposure limit (OSHA Table Z-1) (mg/m³): (Ceiling limit) 5
Long term exposure limit (ACGIH TLV) (mg/m³): 0.02 (resp.) / 0.1 (Inhalable) / (for elemental and inorganic compounds)
Long term exposure limit (NIOSH REL) (mg/m³): 1
Part 1910 - Occupational Safety and Health Standards (29 CFR 1910.1000 TABLE Z-1 - Limits for Air Contaminants)

8.2. Exposure controls

General recommendations

Exposure scenarios

Exposure limits

Appropriate technical measures

Hygiene measures

Compliance with the given occupational exposure limits values should be controlled on a regular basis.
Smoking, drinking and consumption of food is not allowed in the work area.
There are no exposure scenarios implemented for this product.
Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.
Airborne gas and dust concentrations must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure emergency eyewash and showers are clearly marked.
In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.



Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work.

8.3. Individual protection measures, such as personal protective equipment

Generally

Use only protective equipment with a recognized certification mark, e.g. the UL mark.

Respiratory Equipment

Type	Class	Colour	Standards
No special when used as intended.			

Skin protection

No specific requirements.

Hand protection

No specific requirements.

Eye protection

Type	Standards
No special when used as intended.	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	Granulate
Colour	Brown
Odour	Sweet
Odour threshold (ppm)	Testing not relevant or not possible due to the nature of the product.
pH	Testing not relevant or not possible due to the nature of the product.
Density (g/cm ³)	No data available
Relative density	No data available
Viscosity	Does not apply to solids.
Phase changes	
Melting point (°F)	-
Melting point (°C)	200
Boiling point (°F)	No data available
Vapour pressure	Testing not relevant or not possible due to the nature of the product.
Vapour density	Does not apply to solids.
Decomposition temperature (°F)	Testing not relevant or not possible due to the nature of the product.

Data on fire and explosion hazards

Flash point (°F)	Does not apply to solids.
Flash point (°C)	200
Ignition (°F)	Testing not relevant or not possible due to the nature of the product.
Auto flammability (°F)	Testing not relevant or not possible due to the nature of the product.
Explosion limits (% v/v)	Does not apply to solids.

Solubility

Solubility in water	Soluble
n-octanol/water coefficient	Testing not relevant or not possible due to the nature of the product.

9.2. Other information

Solubility in fat (g/L)	Testing not relevant or not possible due to the nature of the product.
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SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions



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- 10.4. Conditions to avoid None known.
- 10.5. Incompatible materials None known.
Strong acids
Keep only in original packaging.
Strong oxidizing agents
- 10.6. Hazardous decomposition products The product is not degraded when used as specified in section 1.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity	Based on available data, the classification criteria are not met.
Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/irritation	Based on available data, the classification criteria are not met.
Respiratory sensitisation	Based on available data, the classification criteria are not met.
Skin sensitisation	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
STOT-single exposure	Based on available data, the classification criteria are not met.
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	Based on available data, the classification criteria are not met.
Long term effects	None known.
Other information	None known.

SECTION 12: ECOLOGICAL INFORMATION

- 12.1. Toxicity No data available.
- 12.2. Persistence and degradability No data available.
- 12.3. Bioaccumulative potential No data available.
- 12.4. Mobility in soil No data available.
- 12.5. Results of PBT and vPvB assessment This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.
- 12.6. Other adverse effects None known.

SECTION 13: DISPOSAL CONSIDERATIONS

RCRA Hazardous waste ("P" and "U" list) (40 CFR 261)

None of the components are listed

Specific labelling

Not applicable.

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: TRANSPORT INFORMATION

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information
DOT	-	-	-	-	-	-
IMDG	-	-	-	-	-	-



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14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information
IATA	-	-	-	-	-

* Packing group
 ** Environmental hazards

Additional information

Not dangerous goods according to ADR, IATA and IMDG.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available.

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.2. U.S. Federal regulations

TSCA

Manganese amino acid complex (as manganese) is listed in the non-confidential portion

Clean Air Act

Manganese amino acid complex (as manganese) is regulated as a hazardous air pollutant (HAPS)

EPCRA Section 302

None of the components are listed

EPCRA Section 304

None of the components are listed

EPCRA section 313

Manganese amino acid complex (as manganese) is listed

CERCLA

None of the components are listed

State regulations

California / Prop. 65

None of the components are listed

Massachusetts / Right To Know Act

Manganese amino acid complex (as manganese) is listed

New Jersey / Right To Know Act

Manganese amino acid complex (as manganese) / Substance number: 1155
 Manganese amino acid complex (as manganese) is on the Special Health Hazard Substance List

New York / Right To Know Act

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 Manganese amino acid complex (as manganese) is listed
 Manganese amino acid complex (as manganese) is regulated with a Threshold Reporting Quantity (TRQ) of: 10 pounds

Pennsylvania / Right To Know Act

—
 Manganese amino acid complex (as manganese) is listed
 Manganese amino acid complex (as manganese) is hazardous to the environment (E)

15.4. Restrictions for application

Restricted to professional users.

15.5. Demands for specific education

No specific requirements.

15.6. Additional information

Not applicable.

15.7. Chemical safety assessment

No

15.8. Sources

OSHA Hazard Communication Standard (29 CFR 1910.1200)

SECTION 16: OTHER INFORMATION

Full text of H-phrases as mentioned in section 3

H373, May cause damage to organs through prolonged or repeated exposure.

The full text of identified uses as mentioned in section 1

None known.

Abbreviations and acronyms

ACGIH = American Conference of Governmental Industrial Hygienists

ADN = European Provisions concerning the International Carriage of Dangerous



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Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
CERCLA = Comprehensive Environmental Response Compensation and Liability Act
EINECS = European Inventory of Existing Commercial chemical Substances
EPCRA = Emergency Planning and Community Right-To-Know Act
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
HCIS = Hazardous Chemical Information System
IARC = International Agency for Research on Cancer
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
NFPA = National Fire Protection Association
NIOSH = National Institute for Occupational Safety and Health
OECD = Organisation for Economic Co-operation and Development
OSHA = Occupational Safety and Health Administration
PBT = Persistent, Bioaccumulative and Toxic
RCRA = Resource Conservation and Recovery Act
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SARA = Superfund Amendments and Reauthorization Act
SCL = A specific concentration limit.
STEL = Short-term exposure limits
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TSCA = The Toxic Substances Control Act
TWA = Time weighted average
UN = United Nations
UVBC = Unknown or variable composition, complex reaction products or of biological materials
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

Additional information

The safety data sheet is validated by

Other

The classification of the mixture in regard of health hazards are in accordance with the calculation methods given by HCS (29 CFR 1910.1200).

Amy Reid

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: US-en