



# Availa Fe 100

## SECTION 1: IDENTIFICATION

### 1.1. Product identifier

Trade name Availa Fe 100  
Product no. Availa Fe 100 US/Multiple

### 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  
Restricted to professional users.  
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  
zinpro@zinpro.com  
9/13/2023  
1.0

E-mail

SDS date

SDS Version

### 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)

### 2.1. Classification of the substance or mixture

Acute Tox. 4; H302, Harmful if swallowed.  
Eye Dam. 1; H318, Causes serious eye damage.

### 2.2. Label elements

Hazard pictogram(s)



Signal word

Danger

Hazard statement(s)

Harmful if swallowed. (H302)  
Causes serious eye damage. (H318)

Precautionary statement(s)

General

-

Prevention

Wash hands and exposed skin thoroughly after handling. (P264)  
Wear eye protection. (P280)

Response

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. (P301+P312)  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)  
Immediately call a POISON CENTER/doctor. (P310)  
Rinse mouth. (P330)

Storage

-

Disposal

Dispose of contents/container in accordance with local regulation (P501)

Additional labelling

Not applicable.



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## 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.

### 3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
Iron amino acid complex ( as iron)	CAS No.:	10%	Acute Tox. 3, H301 Eye Dam. 1, H318	

Where the concentration of an ingredient is expressed as a range the exact concentration has been withheld as a trade secret.

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

### Other information

-

## 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).

#### Inhalation

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

#### Skin contact

Upon irritation: rinse with water. In the event of continued irritation, seek medical assistance.

#### Eye contact

If in eyes: Flush eyes with plenty of water or salt water (20-30 °C) for at least 30 minutes and continue until irritation stops. Remove contact lenses. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.

#### Ingestion

In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting unless this is recommended by a doctor. Hold head facing down to prevent vomit from returning to the mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

#### Burns

Not applicable.

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

The product contains substances that cause serious eye damage. Contact with these substances can cause irreversible effects on the eye / serious eye damage.

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

IF exposed or concerned:

#### Information to medics

Get immediate medical advice/attention.

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.  
Contaminated areas may be slippery.

### 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.  
Keep unauthorized persons away from the spill

### 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

Always store in containers of the same material as the original container.

#### Storage temperature

No specific requirements

#### Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing 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

No substances are listed with a permissible exposure limit (ref: 29 CFR 1910.1000 TABLE Z-1)

### 8.2. Exposure controls

#### General recommendations

Control is unnecessary if the product is used as intended.

#### Exposure scenarios

Smoking, drinking and consumption of food is not allowed in the work area.  
There are no exposure scenarios implemented for this product.

#### Exposure limits

Occupational exposure limits have not been defined for the substances in this product.

#### Appropriate technical measures



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## 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	Not applicable
Density (g/cm <sup>3</sup> )	No data available
Relative density	No data available
Kinematic viscosity	No data available
<b>Phase changes</b>	
Melting point (°F)	-
Melting point (°C)	>200
Softening point/range (waxes and pastes) (°F)	Does not apply to solids.
Boiling point (°F)	No data available
Vapour pressure	Not applicable
Vapour density	Does not apply to solids.
Decomposition temperature (°F)	Not applicable
Evaporation rate (n-butylacetate = 100)	Not applicable
<b>Data on fire and explosion hazards</b>	
Flash point (°F)	

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Flash point (°C)	Does not apply to solids.
Flammability (°F)	0
Auto-ignition temperature (°F)	No data available
Auto-ignition temperature (°C)	-
Explosion limits (% v/v)	>200
<b>Solubility</b>	Does not apply to solids.
Solubility in water	Soluble
n-octanol/water coefficient	Testing not relevant or not possible due to the nature of the product.
Solubility in fat (g/L)	Testing not relevant or not possible due to the nature of the product.
<b>9.2. Other information</b>	
Evaporation rate (n-butylacetate = 100)	Not applicable
Other physical and chemical parameters	No data available.
Oxidizing properties	No data available

## SECTION 10: STABILITY AND REACTIVITY

<b>10.1. Reactivity</b>	No data available.
<b>10.2. Chemical stability</b>	The product is stable under the conditions, noted in section 7 "Handling and storage".
<b>10.3. Possibility of hazardous reactions</b>	None known.
<b>10.4. Conditions to avoid</b>	None known.
<b>10.5. Incompatible materials</b>	Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.
<b>10.6. Hazardous decomposition products</b>	The product is not degraded when used as specified in section 1.

## SECTION 11: TOXICOLOGICAL INFORMATION

<b>11.1. Information on toxicological effects</b>	
Acute toxicity	Harmful if swallowed.
Skin corrosion/irritation	
	Product/substance: Iron amino acid complex ( as iron)
	Test method: OECD 404
	Species: Rabbit, New Zealand White, female
	Duration: No data available.
	Result: No adverse effect observed (Not irritating)
<b>Serious eye damage/irritation</b>	
	Product/substance: Iron amino acid complex ( as iron)
	Test method: OECD 405
	Species: Rabbit, New Zealand White, female
	Duration: No data available.
	Result: Adverse effect observed (Causes serious eye damage)
<b>Respiratory sensitisation</b>	Causes serious eye damage.
<b>Skin sensitisation</b>	Based on available data, the classification criteria are not met.
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.
<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met.
<b>STOT-single exposure</b>	Based on available data, the classification criteria are not met.
<b>STOT-repeated exposure</b>	Based on available data, the classification criteria are not met.



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Aspiration hazard  
Long term effects

Based on available data, the classification criteria are not met.  
Based on available data, the classification criteria are not met.  
The product contains substances that cause serious eye damage. Contact with these substances can cause irreversible effects on the eye / serious eye damage.  
None known.

Other information

## 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

### 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	-	-		-	No	See below for additional information.
IMDG	-	-		-	No	See below for additional information.
IATA	-	-		-	No	See below for additional information.

\* Packing group  
\*\* Environmental hazards

### Additional information

Not dangerous goods according to DOT, 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

None of the components are listed

Clean Air Act

None of the components are listed

EPCRA Section 302

None of the components are listed

EPCRA Section 304



EPCRA section 313	None of the components are listed
CERCLA	None of the components are listed
<b>State regulations</b>	None of the components are listed
California / Prop. 65	None of the components are listed
Massachusetts / Right To Know Act	None of the components are listed
New Jersey / Right To Know Act	None of the components are listed
New York / Right To Know Act	None of the components are listed
Pennsylvania / Right To Know Act	None of the components are listed
<b>15.4. Restrictions for application</b>	Restricted to professional users.
<b>15.5. Demands for specific education</b>	No specific requirements.
<b>15.6. Additional information</b>	Not applicable.
<b>15.7. Chemical safety assessment</b>	No
<b>15.8. Sources</b>	1993 Hazardous Substances Law OSHA Hazard Communication Standard (29 CFR 1910.1200)

## SECTION 16: OTHER INFORMATION

### Full text of H-phrases as mentioned in section 3

H301, Toxic if swallowed.  
H318, Causes serious eye damage.

### 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 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  
DOT = Department of Transportation  
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  
HNOC = Hazards Not Otherwise Classified  
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



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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 is 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