

# Availa Cu 100

### **SECTION 1: IDENTIFICATION**

1.1. Product identifier

Trade name Availa Cu 100

Product no. Availa Cu 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

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

**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

E-mail

This material is considered hazardous by the OSHA Hazard Communication

Standard (29 CFR 1910.1200)

Classification of the substance or mixture

Skin Irrit. 2; H315, Causes skin irritation.

Eye Irrit. 2; H319, Causes serious eye irritation.

2.2. Label elements

Hazard pictogram(s)



Signal word Warning

**Hazard statement(s)** Causes skin irritation. (H315)

Causes serious eye irritation. (H319)

Safety statement(s)

General -

**Prevention** Wash hands thoroughly after handling. (P264)

Wear eye protection/protective gloves/protective clothing. (P280)

**Response** If eye irritation persists: Get medical advice/attention. (P337+P313)

Storage -Disposal -

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**

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#### 3.1. Substances

Not applicable. This product is a mixture.

#### 3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
Copper amino acid complex (as copper)	CAS No.:	10-15%	Acute Tox. 3, H301 (ATE: 244.00 mg/kg)	

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 fi	rst aid	measures
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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** IF ON SKIN: Wash with plenty of water and soap.

Remove contaminated clothing and shoes. Ensure to wash exposed skin thoroughly with water and soap. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

Eye contact Upon irritation of the eye: Remove contact lenses. Flush eyes immediately with

plenty of water or isotonic water (20-30°C) for at least 5 minutes and continue until irritation stops. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. 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

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

If eye irritation persists: Get medical advice/attention.
Bring this safety data sheet or the label from this product.

Information to medics

**SECTION 5: FIRE-FIGHTING MEASURES** 

### 5.1. Extinguishing media

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

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.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Carbon oxides (CO / CO2)

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Some metal oxides

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

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

Keep only in original packaging.

Storage temperature

Dry, cool and well ventilated

**Incompatible materials** 

Strong acids

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

Copper amino acid complex (as copper)

Long term exposure limit (OSHA Table Z-1) (mg/m³): 0,1 (Fume (as Cu))

Long term exposure limit (ACGIH TLV) (mg/m³): 0.2 (Fume (as Cu)) / 1 (Dusts and

mists (as Cu))

Long term exposure limit (NIOSH REL) (mg/m³): 0.1 (Fume (as Cu)) / 1(Dusts and

Part 1910 - Óccupational Safety and Health Standards (29 CFR 1910.1000 TABLE

Z-1 - Limits for Air Contaminants)

8.2. Exposure controls

Compliance with the given occupational exposure limits values should be

controlled on a regular basis.

General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

**Exposure scenarios** 

There are no exposure scenarios implemented for this product.

**Exposure limits** 

Professional users are subjected to the legally set maximum concentrations for

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occupational exposure. See occupational hygiene limit values above.

Standards

**Appropriate technical measures** 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.

**Hygiene measures** Take off contaminated clothing and wash it before reuse.

Measures to avoid environmental

exposure No specific requirements.

8.3. Individual protection measures, such as personal protective equipment

Type/Category

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

**Respiratory Equipment** 

Work situation	Туре	Class	Colour	Standards	
In case of inadequate	Combination filter A2P2	Class 2	Brown/White	EN14387	

ventilation



Dedicated work clothing should be worn.



#### **Hand protection**

Recommended

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Cotton/Latex	-	> 240	EN374-2, EN374-3, EN388	



Standards Type Safety glasses with side EN166 shields.



### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

9.1. Information on basic physical and chemical properties

**Physical state** Granulate Colour Deep brown Odour Sweet

Odour threshold (ppm) Testing not relevant or not possible due to the nature of the product. рΗ Testing not relevant or not possible due to the nature of the product. Density (g/cm³) Testing not relevant or not possible due to the nature of the product.

Viscosity Does not apply to solids.

**Phase changes** 

Melting point (°F) Not applicable - risk of decomposition

Boiling point (°F) Does not apply to solids.

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)

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**Decomposition temperature (°C)** 260

Data on fire and explosion hazards

Flash point (°F) Not applicable - flash point > 200°C

**Ignition (°F)** Testing not relevant or not possible due to the nature of the product.

Auto flammability (°F) Not applicable - flash point > 200°C

**Explosion limits (% v/v)**Does not apply to solids.

Solubility

**Solubility in water** Active substance is water soluble. Carrier is insoluble.

**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.

### **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

None known.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Strong acids

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/irritationCauses skin irritation.Serious eye damage/irritationCauses serious eye irritation.

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 Based on available data, the classification criteria are not met. **Aspiration hazard** Based on available data, the classification criteria are not met.

Long term effects

Irritation effects: This product contains substances, which may cause irritation

upon exposure to skip, ever or lungs. Exposure may result in an increased

upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

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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)

Specific labelling

None of the components are listed

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	UN3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	Class: 9 Labels: 9 Classification code: M7	III	No	Limited quantities: 5 kg Tunnel restriction code: (-) See below for additional information.
IMDG	UN3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	Class: 9 Labels: 9 Classification code: M7	III	No	Limited quantities: 5 kg EmS: F-A S-F See below for additional information.
IATA	UN3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	Class: 9 Labels: 9 Classification code: M7	III	No	See below for additional information.



<sup>\*\*</sup> Environmental hazards

#### Additional information

These substances when carried in single or combination packaging's containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of ADR/IMDG/IATA provided the packaging's meet the general provisions of 4.1.1.1, 4.1.1.2, 4.1.1.4 - 4.1.1.8 (ADR, IMDG) / 5.0.2.4.1, 5.0.2.6.1.1, 5.0.2.8 (IATA).

ADR / See Table A, Section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.

IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

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This product is within scope of the regulations of transport of dangerous goods.

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 Copper amino acid complex (as copper) is listed in the non-confidential portion

Clean Air Act Copper amino acid complex (as copper) 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 Copper amino acid complex (as copper) is listed

CERCLA Copper amino acid complex (as copper) is regulated with a Reportable Quantity

(RQ) of: 5000 pounds

**State regulations** 

California / Prop. 65 None of the components are listed

Massachusetts / Right To Know Act Copper amino acid complex (as copper) is listed

New Jersey / Right To Know Act Copper amino acid complex (as copper) / Substance number: 0528

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New York / Right To Know Act Copper amino acid complex (as copper) is listed

Copper amino acid complex (as copper) is regulated with a Reportable Quantity

(RQ) of: 5000\* pounds

Copper amino acid complex (as copper) is regulated with a Treshold Reporting

Quantity (TRQ) of: 100 pounds

Pennsylvania / Right To Know Act Copper amino acid complex (as copper) is listed

Copper amino acid complex (as copper) is hazardous to the environment (E)

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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

H301, Toxic if swallowed.

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

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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

vivb very reconstruction very bloaceanidative

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

#### **Additional information**

### The safety data sheet is validated by

#### Other