

# Safety Data Sheet



Product Name: SUMO Protease

Version: 1.0

Revision Date: 01/06/2020

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## Section 1: Identification of the substance and of the company/undertaking

### Identification of the substance

Product name: SUMO Protease

Product codes (SKU):

03-1001

03-1005

03-1010

03-1050

03-1100

### Company/Undertaking Identification

TriAltus Bioscience

1500 1<sup>st</sup> Ave N

Box 92

Birmingham, AL 35203

1-205-453-8242

**For research use only. Not for diagnostic or therapeutic use.**

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## Section 2: Hazards Identification

### 2.1 Classification of the substance or mixture

#### Signal Word

None

#### Hazard Pictograms

None

#### Environmental Hazards

No information available.

#### Hazard Statements

H315 – Causes skin irritation

H319 – Causes serious eye irritation

H335 – May cause respiratory irritation

#### Precautionary Statements

### Prevention

- P202 – Do not handle until all safety precautions have been read and understood
- P210 – Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P264 – Wash hands thoroughly after handling
- P270 – Do not eat, drink or smoke when using this product
- P280 – Wear protective gloves/protective clothing/eye protection/face protection
- P281 – Use personal protective equipment as required

### Response

- P308 + P313 – If exposed or concerned: Get medical advice/attention
- P302 + P352 – If on skin: wash with soap and water
- P362 + P364 – Take off all contaminated clothing and wash it before reuse
- P332 + P313 – If skin irritation occurs, get medical advice/attention
- P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337 + P313 – If eye irritation persists, get medical advice/attention

### Storage

- P403 + P235 – Store in a well-ventilated place. Keep cool.

### Disposal

- P501 – Dispose of contents/container to an approved waste disposal plant

## 2.3 Other Hazards

The chemical, physical, and toxicological properties of SUMO Protease has not yet been thoroughly investigated. TriAltus recommends treating these products with care that is due to unknown chemicals.

### Principle Routes of Exposure/Potential Health Effects

|                   |  |
|-------------------|--|
| <b>Eyes</b>       | May cause eye irritation with susceptible persons                              |
| <b>Skin</b>       | May cause skin irritation in susceptible persons                               |
| <b>Inhalation</b> | May cause irritation of respiratory tract                                      |
| <b>Ingestion</b>  | Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea |

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## Section 3: Composition/Information on Ingredients

### 3.1 Chemical characterization: Mixtures

| Component       | CAS-No    | EINECS-No. | %    | Classification   |
|-----------------|-----------|------------|------|------------------|
| Tris Chloride   | 1185-53-1 | 214-684-5  | 0.23 | H315; H319; H335 |
| Sodium Chloride | 7647-14-5 | 231-598-3  | 1.2  |                  |
| Glycerol        | 56-81-5   | 200-289-5  | 50   | H315; H319; H335 |

Handle all chemicals with caution.

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## Section 4: First Aid Measures

#### **4.1 Description of first aid measures**

- Inhalation:** Provide fresh air. If feeling unwell, consult a physician.
- Skin Contact:** Wash off immediately with plenty of soap and water. If skin irritation occurs, consult a physician.
- Eye Contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
- Ingestion:** Rinse mouth and drink water if conscious. Never give anything by mouth to an unconscious person.

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

Irritations

#### **4.3 Indications of any immediate medical attention and special treatment needed**

No relevant information available.

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### **Section 5: Firefighting Measures**

#### **5.1 Extinguishing media**

- Suitable extinguishing media:** Water spray. Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical.
- Unsuitable extinguishing media:** No information available.

#### **5.2 Special hazards arising from the substance or mixture**

The chemical, physical, and toxicological properties of the SUMO Protease have not yet been thoroughly investigated. TriAltus recommends treating these products with care that is due to unknown chemicals.

#### **5.3 Advice for fire-fighters**

Standard procedure for chemical fires.

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### **Section 6: Accidental Release Measures**

#### **6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Always wear recommended Personal Protective Equipment. Use personal protection equipment. Avoid dust formation. Avoid breathing vapors, mist, gas, or dust. See Section 8 for more detail.

#### **6.2 Environmental Precautions**

Do not let product enter drains.

#### **6.3 Methods and material for containment and cleaning up**

Soak up with inert absorbent material.

#### **6.4 Reference to other sections**

See Section 8 for more information.

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### **Section 7: Handling and Storage**

### 7.1 Precautions for safe handling

Use personal protective equipment as required. Keep containers, equipment, and workplace clean.

### 7.2 Conditions for safe storage, including any incompatibilities

|   |  |
|---|--|
| <b>Storage rooms and containers:</b>        | No special requirements.   |
| <b>Incompatible substances or mixtures:</b> | Keep away from food and drink.                                     |
| <b>Consideration of other advice:</b>       | Keep containers tightly closed in a dry and well-ventilated place. |
| <b>Recommended storage temperature:</b>     | -80°C  |

### 7.3 Specific end use(s)

Use as laboratory reagent. Scientific research and development.

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## Section 8: Exposure controls/personal protection

### 8.1 Exposure controls

|  |  |
|--|--|
| <b>Personal Protective Equipment</b>   | The usual precautions for handling chemicals should be observed. Avoid contact with eyes and skin. Wash hands before breaks and after work.                    |
| <b>Respiratory protection</b>          | In case of insufficient ventilation, use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). |
| <b>Hand protection</b>                 | Wear suitable gloves.  |
| <b>Eye protection</b>                  | Use safety goggles with side protection.   |
| <b>Skin and Body protection</b>        | Wear suitable protective clothing.   |
| <b>Hygiene measures</b>                | Handle in accordance with good industrial hygiene and safety practice.   |
| <b>Environmental Exposure Controls</b> | No environmental precautions required.   |

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## Section 9: Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

|                          |                   |
|--------------------------|-------------------|
| <b>Form:</b>             | Liquid            |
| <b>Appearance:</b>       | Clear             |
| <b>Odor:</b>             | Odorless          |
| <b>Melting point:</b>    | No data available |
| <b>Freezing point:</b>   | No data available |
| <b>Flash point:</b>      | No data available |
| <b>Evaporation rate:</b> | No data available |

|                                      |                   |
|--------------------------------------|-------------------|
| <b>Upper/lower explosive limits:</b> | No data available |
| <b>Vapor pressure:</b>               | No data available |
| <b>Vapor density:</b>                | No data available |
| <b>Relative density:</b>             | No data available |
| <b>Water solubility:</b>             | No data available |
| <b>Viscosity:</b>                    | No data available |
| <b>Explosive properties:</b>         | No data available |
| <b>Oxidizing properties:</b>         | No data available |

## 9.2 Other safety information

No further relevant information available.

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## Section 10: Stability and Reactivity

### 10.1 Reactivity

No known.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reaction has not been reported.

### 10.4 Conditions to avoid

Avoid close proximity to sources of ignition.

### 10.5 Incompatible Materials

No data available.

### 10.6 Hazardous Decomposition Products

No data available.

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## Section 11: Toxicological Information

### 11.1 Information of toxicological effects

#### Acute Toxicity

##### **Product Information**

No acute toxicity information is available for this product

##### **Toxicologically Synergistic Products**

No information available

#### Irritation

Tris (0.23%) may cause irritation to skin and eyes, but the concentration not sufficient for classification.

#### Respiratory or skin sensitization

No component is classified as a respiratory or skin sensitizer.

### **STOT – Single exposure**

Tris (0.23%) may cause respiratory irritation, but the concentration does not warrant classification of the mixture.

### **STOT – Repeated exposure**

The concentrations do not warrant classification of the mixture.

### **Principal Routes of Exposure/Potential Health Effects**

|                              |  |
|------------------------------|--|
| <b>Eyes</b>                  | May cause eye irritation with susceptible persons. |
| <b>Skin</b>                  | May cause skin irritation in susceptible persons.  |
| <b>Inhalation</b>            | May cause irritation of respiratory tract.         |
| <b>Ingestion</b>             | No information available.                          |
| <b>Carcinogenic effects</b>  | No information available.                          |
| <b>Mutagenic effects</b>     | No information available.                          |
| <b>Reproductive Toxicity</b> | No information available.                          |
| <b>Aspiration Hazard</b>     | No information available.                          |
| <b>Developmental Effects</b> | No information available.                          |
| <b>Teratogenicity</b>        | No information available.                          |

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## **Section 12: Ecological Information**

### **12.1 Toxicity**

No relevant information available.

### **12.2 Persistence and Degradability**

No relevant information available.

### **12.3 Bioaccumulative Potential**

No relevant information available.

### **12.4 Mobility in Soil**

No relevant information available.

### **12.5 Results of PBT- and vPvB-assessment**

No relevant information available.

### **12.6 Other Adverse Effects**

No relevant information available.

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## **Section 13: Disposal Considerations**

### **13.1 Waste Treatment Methods**

#### **Recommendation for product:**

The disposal is regionally differently regulated, therefore dispose of in accordance with local regulations.

**Contaminated packaging:**  
Dispose of as unused product.

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## **Section 14: Transport Information**

### **IATA**

|  |                                    |
|--|------------------------------------|
| <b>14.1 UN number</b>  | Not applicable.                    |
| <b>14.2 UN proper shipping name</b>  | Not applicable.                    |
| <b>14.3 Transport hazard class(es)</b>   | Not applicable.                    |
| <b>14.4 Packing group</b>  | Not applicable.                    |
| <b>14.5 Environmental hazards</b>  | Not applicable.                    |
| <b>14.6 Special precautions for user</b>   | No relevant information available. |
| <b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b> | No relevant information available. |

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## **Section 15: Regulatory Information**

### **15.1 Safety, health, and environmental regulation specific for the substance or mixture**

#### **National regulations:**

No relevant information available.

### **15.2 Chemical Safety Assessment**

No Chemical Safety Assessment has been carried out for this substance/mixture.

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## **Section 16: Other Information**

The above information is based on our present-day knowledge. The information should not be taken as being all inclusive and is meant to be used only as a guide. It does not represent a legally valid contractual relationship. All materials and mixtures may present unknown hazards and should be used with caution.

**End of SDS**