

# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:  
Regulation (EC) No. 1907/2006 as amended by Regulation (EU) No. 2020/878, and Regulation  
(EC) No. 1272/2008

Revision date February 28<sup>th</sup>, 2024 Version 1

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Catalog # 0101 01

Product name: RibonEx RNase Inhibitor

Pure substance/mixture Mixture

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use: Research Use Only

Uses advised against No information available

### 1.3. Details of the supplier of the safety data sheet

TargetEx Ltd  
31/2 Madách Imre str.  
Dunakeszi H-2120 Hungary

For further information, please contact  
Company Phone Number +36303529529  
E-mail address [lorincz@targetex.com](mailto:lorincz@targetex.com)

1.4 Emergency phone number +36303529529

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## **SECTION 2: Hazards identification**

### **2.1. Classification of the substance or mixture**

#### **Regulation (EC) No 1272/2008**

Not hazardous according to regulation (EC) 1272/2008 [CLP]

### **2.2. Label elements**

Not hazardous according to regulation (EC) 1272/2008 [CLP]

#### **Hazard statements**

Classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

EUH210 - Safety data sheet available on request

**Unknown aquatic toxicity** Contains 0 % of components with unknown hazards to the aquatic environment.

### **2.3. Other hazards**

No information available or not applicable

**Endocrine Disruptor Information** This product does not contain any known or suspected endocrine disruptors.

## **SECTION 3: Composition/information on ingredients**

### **3.1 Substances**

Not applicable

### **3.2 Mixtures**

The product contains no substances which at their given concentration, are considered to be hazardous to health

**Full text of H- and EUH-phrases: see section 16**

#### **Acute Toxicity Estimate**

No information available

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No.1907/2006 (REACH), Article 59)

We recommend handling all chemicals with caution.

## **SECTION 4: First aid measures**

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

**Inhalation** Remove to fresh air.

**Eye contact** Thoroughly rinse with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

**Skin contact** Thoroughly wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.

**Ingestion** Thoroughly rinse mouth.

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

**Symptoms** No information available.

**Effects of Exposure** No information available.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

**Suitable Extinguishing Media** Water spray. Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Large Fire** CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

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

**Specific hazards arising from the chemical**

No information available.

### **5.3. Advice for firefighters**

**Special protective equipment and precautions for fire-fighters**

Perform standard procedure for firefighters

Use personal protection equipment.

## **SECTION 6: Accidental release measures**

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

**Personal precautions** Ensure adequate ventilation.

**For emergency responders** Use personal protection recommended in Section 8.

### **6.2. Environmental precautions**

**Environmental precautions** No special environmental precautions are required. See Section 12 for additional Ecological Information.

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

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Soak up with inert absorbent material. Take up mechanically, placing in appropriate containers for disposal.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

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

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

**Advice on safe handling** Use protective equipment as required. Ensure adequate ventilation.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practices.

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

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place.

**Storage class (TRGS 510)** Storage class 10.

### **7.3. Specific end use(s)**

**Risk management methods [RMM]** The information required is contained in this Safety Data Sheet.

## **SECTION 8: Exposure controls/personal protection**

### **8.1. Control parameters**

**Exposure Limits** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

### **Biological occupational exposure limits**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

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Chemical name	oral	dermal	inhalation
Glycerol 56-81-5	-	-	56 mg/m <sup>3</sup> [5] [6]
Hepes 7365-45-9	-	3.33 mg/kg bw/day [4] [6]	23.5 mg/m <sup>3</sup> [4] [6]
Sodium Chloride 7647-14-5	-	126.65 mg/kg bw/day [4] [6] 126.65 mg/kg bw/day [4] [7]	443.28 mg/m <sup>3</sup> [4] [6] 443.28 mg/m <sup>3</sup> [4] [7]

**Notes****[4]** Systemic health effects.**[5]** Local health effects.**[6]** Long term.**[7]** Short term.**Derived No Effect Level (DNEL) - General Public**

Chemical name	oral	dermal	inhalation
Glycerol 56-81-5	229 mg/kg bw/day [4] [6]	-	33 mg/m <sup>3</sup> [5] [6]
Hepes 7365-45-9	1.67 mg/kg bw/day [4] [6]	-	5.8 mg/m <sup>3</sup> [4] [6]
Sodium Chloride 7647-14-5	126.65 mg/kg bw/day [4] [6] 126.65 mg/kg bw/day [4] [7]	126.65 mg/kg bw/day [4] [6] 126.65 mg/kg bw/day [4] [7]	443.28 mg/m <sup>3</sup> [4] [6] 443.28 mg/m <sup>3</sup> [4] [7]

**Notes****[4]** Systemic health effects.**[5]** Local health effects.**[6]** Long term.**[7]** Short term.**Predicted No Effect Concentration (PNEC)**

Chemical name	Freshwater	Freshwater (Intermittent release)	Marine water	Marine water (Intermittent release)	Air
Glycerol 56-81-5	0.885 mg/L	8.85 mg/L	0.0885 mg/L	-	-
Sodium Chloride 7647-14-5	5 mg/L	-	-	-	-

Chemical name	Freshwater sediment	Marine sediment	Sewage sediment	Soil	Food chain
Glycerol 56-81-5	3.3 mg/kg sediment dw	0.33 mg/kg sediment dw	1000 mg/L	0.141 mg/kg soil dw	-

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Sodium Chloride 7647-14-5	-	-	500 mg/L	4.86 mg/kg soil dw	-
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## 8.2. Exposure controls

**Engineering controls** No information available.

### Individual protection measures, such as personal protective equipment

Always use personal protective equipment as required

**Eye/face protection** No special protective equipment required.

**Skin and body protection** No special protective equipment required.

**Respiratory protection** No protective equipment is needed under normal use conditions. Ventilation and evacuation may be required If exposure limits are exceeded or irritation is experienced.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls** No information available

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**Physical state** Liquid

**Appearance** Colorless

**Color** No information available

**Odor** Mild.

**Odor threshold** No information available

#### Property Values Remarks • Method

**Melting point / freezing point** No data available. None known

**Initial boiling point and boiling range** No data available None known

**Flammability (solid, gas)** No data available None known

**Flammability Limit in Air** None known

**Flash point** No data available None known

**Autoignition temperature** 392.78 °C

**Decomposition temperature °C** No data available °F No data available

**Evaporation rate** No data available

**Viscosity** No data available

**Solubility** No data available

**Partition coefficient:n-octanol/water** No data available

**Vapour Pressure** No data available

**Specific gravity** No data available

**Relative density** No data available

**Vapour density** No data available

**Explosive properties** No data available

**Oxidising properties** No data available

**Particle characteristics** No data available

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**9.2. Other information****9.2.1. Information with regard to physical hazard classes**

Not applicable

**9.2.2. Other safety characteristics**

No information available

**SECTION 10: Stability and reactivity****10.1. Reactivity****Reactivity** No information available.**10.2. Chemical stability****Stability** Stable under normal conditions.**Explosion data****Sensitivity to mechanical impact** None.**Sensitivity to static discharge** None.**10.3. Possibility of hazardous reactions****Possibility of hazardous reactions** None under normal processing.**10.4. Conditions to avoid****Conditions to avoid** None has been reported.**10.5. Incompatible materials****Incompatible materials** None has been reported.**10.6. Hazardous decomposition products****Hazardous decomposition products** None known**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Glycerol	= 12600 mg/kg Oral	> 10 g/kg(Rabbit)	>2.75mg/L(Rat)

**Information on likely routes of exposure****Product Information****Inhalation** Specific test data for the substance or mixture is not available.**Eye contact** Specific test data for the substance or mixture is not available.**Skin contact** Specific test data for the substance or mixture is not available.**Ingestion** Specific test data for the substance or mixture is not available.**Symptoms related to the physical, chemical and toxicological characteristics****Symptoms** No information available.**Acute toxicity** There is no evidence indicating acute toxicity**Numerical measures of toxicity****The following values are calculated based on chapter 3.1 of the GHS document****ATEmix (oral)** 25,200.00 mg/kg**ATEmix (dermal)** 20,000.00 mg/kg**ATEmix (inhalation-gas)** 99,999.00 ppm

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**ATEmix (inhalation-vapor)** 99,999.00 mg/l**ATEmix (inhalation-dust/mist)** 99,999.00 mg/l**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Skin corrosion/irritation** No information available.**Serious eye damage/eye irritation** No information available.**Respiratory or skin sensitization** No information available.**Germ cell mutagenicity** No information available.**Carcinogenicity** No information available.**Reproductive toxicity** No information available.**STOT - single exposure** No information available.**STOT - repeated exposure** No information available.**Aspiration hazard** No information available.**11.2. Information on other hazards****11.2.1. Endocrine disrupting properties****Endocrine disrupting properties** No information available.**11.2.2. Other information****Other adverse effects** No information available.**SECTION 12: Ecological information****12.1. Toxicity**

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

Chemical name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Microtox data	logPow-
Glycerol	No data available	No data available	No data available	No data available	logPow-1.75

**Ecotoxicity****Unknown aquatic toxicity** Contains 0 % of components with unknown hazards to the aquatic environment.**12.2. Persistence and degradability****Persistence and degradability** No information available.**12.3. Bioaccumulative potential****Bioaccumulation****12.4. Mobility in soil****Mobility in soil** No information available.**12.5. Results of PBT and vPvB assessment****PBT and vPvB assessment** No information available.**12.6. Endocrine disrupting properties****Endocrine disrupting properties** No information available.



## 12.7. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Waste from residues/unused products or byproducts

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

## SECTION 14: Transport information

### IATA

**14.1 UN number or ID number** Not regulated

#### 14.2 Extended Proper Shipping

**Name** Not regulated

**14.3 Transport hazard class(es)** Not regulated

**14.4 Packing group** Not regulated

**14.5 Environmental hazard** Not applicable

**14.6 Special precautions for user**

**Special Provisions** None

### IMDG

**14.1 UN number or ID number** Not regulated

#### 14.2 Extended Proper Shipping

**Name** Not regulated

**14.3 Transport hazard class(es)** Not regulated

**14.4 Packing group** Not regulated

**14.5 Environmental hazard** Not applicable

**14.6 Special precautions for user**

**Special Provisions** None

**14.7 Maritime transport in bulk according to IMO instruments** No information available

### RID

**14.1 UN/ID No** Not regulated

#### 14.2 Extended Proper Shipping

**Name** Not regulated

**14.3 Transport hazard class(es)** Not regulated

**14.4 Packing group** Not regulated

**14.5 Environmental hazard** Not applicable

**14.6 Special precautions for user**

**Special Provisions** None

### ADR

**14.1 UN number or ID number** Not regulated

**14.2 UN proper shipping name** Not regulated

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**14.3 Transport hazard class(es)** Not regulated

**14.4 Packing group** Not regulated

**14.5 Environmental hazard** Not applicable

**14.6 Special precautions for user**

**Special Provisions** None

## **SECTION 15: Regulatory information**

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

#### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

#### **Authorizations and/or restrictions on use:**

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

#### **Persistent Organic Pollutants**

Not applicable

#### **Ozone-depleting substances (ODS) regulation (EC) 1005/2009**

Not applicable

#### **International Inventories**

**TSCA** Contact supplier for inventory compliance status

**DSL/NDSL** Contact supplier for inventory compliance status

**EINECS/ELINCS** Contact supplier for inventory compliance status

**ENCS** Contact supplier for inventory compliance status

**IECSC** Contact supplier for inventory compliance status

**KECL** Contact supplier for inventory compliance status

**PICCS** Contact supplier for inventory compliance status

**AIIC** Contact supplier for inventory compliance status

**NZIoC** Contact supplier for inventory compliance status

#### **Legend:**

**TSCA** United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** Japan Existing and New Chemical Substances

**IECSC** China Inventory of Existing Chemical Substances

**KECL** Korean Existing and Evaluated Chemical Substances

**PICCS** Philippines Inventory of Chemicals and Chemical Substances

**AICS** Australian Inventory of Chemical Substances

**NZIoC** New Zealand Inventory of Chemicals

### **15.2. Chemical safety assessment**

**Chemical Safety Report** No information available

## **SECTION 16: Other information**

### **Key or legend to abbreviations and acronyms used in the safety data sheet**

#### **Legend**

SVHC: Substances of Very High Concern for Authorization:

#### **Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC)

European Chemicals Agency (ECHA) (ECHA\_API)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGl(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization



**Product name:** RibonEx RNase Inhibitor

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**Emergency phone number** +36303529529

**Prepared by** TargetEx Ltd.

**Revision note** SDS is valid 3 years from revision date. Contact [info@targetex.com](mailto:info@targetex.com) for latest revision.

**Revision date** 28<sup>th</sup> February 2024

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

**Disclaimer**

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**End of Safety Data Sheet**