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**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1 PRODUCT IDENTIFIER**

Trade name: **Biotoools High RNase Inhibitor (40U/µl)**

Product Number: 20.049

Chemical Name: Not Applicable

**1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST.**

**Relevant identified uses:** For research use only. Not for use in diagnostic procedures.

**Uses advised against:** Not for consumer use

**1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET.**

**Manufacturer / Supplier**

Company: Biotoools, B & M Labs, S.A.

Valle de Tobalina – 52 – Nave 39

28021 Madrid

SPAIN

Tel: +34 91 710 00 74

Fax: +34 91 505 31 18

**1.4 EMERGENCY NUMBER**

Please contact Biotoools distributor in your country. Spain only: 91 562 04 20

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**2. HAZARDS IDENTIFICATION**

**2.1 CLASSIFICATION OF THE MIXTURE**

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

**2.2 LABEL ELEMENTS**

**Label elements**

**Hazard pictograms**

None

**Signal Word**

None

**Hazard Statements**

Not Applicable

**EU Specific Hazard Statements**

Not Applicable

**Precautionary Statements**

**Prevention**

Not Applicable

**Response**

Not Applicable

**Storage**

Not Applicable

**Disposal**

Not Applicable

**2.3 OTHER HAZARDS**

None known

**3.COMPOSITION OF THE PRODUCT/INFORMATION ON INGREDIENTS****3.1 SUBSTANCE**

Not applicable

**3.2 MIXTURE**

Chemical characterisation: Solutions in buffer. Volume of each product package: 28µl

Active ingredients:

CAS-No	EC no	Name	Contents	Danger <sup>1</sup>	Risks
56-81-5	200-289-5	Glycerol	40-70%	None	None

\*) A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

**4. FIRST AID MEASURES****4.1 DESCRIPTION OF FIRST AID MEASURES****Skin contact**

Wash skin with water and soap and rinse thoroughly. Remove contaminated clothing and shoes.

**Eye contact**

Rinse out with plenty of water. Check for and remove any contact lenses.

**Ingestion**

Make victim drink water. Call a doctor if feeling unwell.

**Inhalation**

After inhalation remove to fresh air.

**4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED**

No information available

**4.3 INDICATION OF ANY IMMEDIATE ATTENTION AND SPECIAL TREATMENT NEEDED**

No information available

**5. FIRE FIGHTING MEASURES****5.1 EXTINGUISHING MEDIA****Suitable extinguishing media**Water, Foam, Carbon dioxide (CO<sub>2</sub>), Dry powder.

**Unsuitable extinguishing media**

For this mixture no limitations of extinguishing agents are given.

**5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE**

Nature of decomposition products not known.

**5.3 ADVICE FOR FIREFIGHTERS**

**Special protective equipment for firefighters**

Standard procedure for chemical fires.

**Further information**

Ensure adequate ventilation

Always wear recommended Personal Protective Equipment

Use personal protection equipment

See section 8 for more information

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**6. ACCIDENTAL RELEASE MEASURES**

**6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**

**Advice for non-emergency personnel:**

Do not breathe vapours, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

**Advice for emergency responders:**

Protective equipment see section 8.

**6.2 ENVIRONMENTAL PRECAUTIONS**

No special environmental precautions required.

**6.3 METHODS AND MATERIALS 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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**7. HANDLING AND STORAGE**

**7.1 PRECAUTIONS FOR SAFE HANDLING**

**Hygiene measures**

Use personal protective equipment as required. No special handling advices are necessary.

**7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES**

**Storage conditions:**

Keep in a dry, cool and well-ventilated place. Keep in properly labelled containers.

**7.3 SPECIFIC END USE(S)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

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**8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

**8.1 CONTROL PARAMETERS**

Ingredients with workplace control parameters

## 8.2 EXPOSURE CONTROLS

### Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

### Individual protection measures

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

#### *Eye/face protection*

Tightly fitting safety goggles

Use equipment for eye protection tested and approved under appropriate government standards

#### *Hand protection*

full contact:

Glove material: butyl-rubber

Glove thickness: 0,7 mm

Break through time: > 480 min

splash contact:

Glove material:butyl-rubber

Glove thickness:0,7 mm

Break through time:> 480 min

#### *Other protective equipment*

protective clothing

#### *Respiratory protection*

required when vapours/aerosols are generated.

Recommended Filter type: Filter A-(P2)

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

### Environmental exposure controls

No special environmental precautions required.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

**Form:** Liquid

**Colour:** Colorless

**Odour:** Odorless

**Boiling point:** no data available.

**Flash point:** no data available

**Explosive properties:** no data available

**Vapor pressure:** no data available

**pH:** Mixture has not been tested

### 9.2 OTHER DATA

No information available

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## 10. STABILITY AND REACTIVITY

### 10.1 REACTIVITY

No data available

### 10.2 CHEMICAL STABILITY

Stable under normal handling and storage conditions

### 10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No data available

**10.4 CONDITIONS TO AVOID**

No data available

**10.5 INCOMPATIBLE MATERIALS**

Strong oxidizing agents

**10.6 HAZARDOUS DECOMPOSITION PRODUCTS**

In the event of fire: See section 5.

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**11. TOXICOLOGICAL INFORMATION**

**11.1 INFORMATION ON TOXICOLOGICAL EFFECTS**

**Glycerol**

*Acute toxicity*

LD50 Oral - Rat - 27.200 mg/kg

Remarks: (ECHA)

LD50 Dermal - Rabbit - > 10.000 mg/kg

Remarks: (External MSDS)

*Skin corrosion/irritation*

Skin - Rabbit

Result: No skin irritation - 24 h

Remarks: (ECHA)

*Serious eye damage/eye irritation*

Eyes - Rabbit

Result: No eye irritation

Remarks: (ECHA)

*Respiratory or skin sensitization*

No data available

*Germ cell mutagenicity*

No data available

*Carcinogenicity*

No data available

*Reproductive toxicity*

No data available

*Specific target organ toxicity - single exposure*

No data available

*Specific target organ toxicity - repeated exposure*

No data available

*Aspiration hazard*

No data available

**11.2 FURTHER INFORMATION**

No data available.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Handle in accordance with good industrial hygiene and safety practice

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## 12. ECOLOGICAL INFORMATION

### 12.1 TOXICITY

#### Glycerol

##### *Toxicity to fish*

static test LC50 - Oncorhynchus mykiss (rainbow trout) - 54.000

mg/l - 96 h

Remarks: (ECHA)

### 12.2 PERSISTENCE AND DEGRADABILITY

No data available

### 12.3 BIOACCUMULATIVE POTENTIAL

No data available

### 12.4 MOBILITY IN SOIL

No information available.

### 12.5 RESULTS OF PBT AND vPvB ASSESSMENT

Substance(s) in the mixture do(es) not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII, or a PBT/vPvB assessment was not Conducted.

### 12.6 OTHER ADVERSE EFFECTS

No information available.

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## 13. DISPOSAL CONSIDERATIONS

Controlled disposal in waste system. Product disposal (leftovers or residues resulting from normal use) does not pose any serious hazards in the adequate proportion.

The product and packaging should be disposed of in accordance with the instructions of the local authorities.

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## 14. TRANSPORT INFORMATION

### 14.1 UN number

ADR/RID: - IMDG: - IATA: -

### 14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

### 14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

### 14.4 Packaging group

ADR/RID: - IMDG: - IATA: -

### 14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

### 14.6 Special precautions for user

#### Further information

Not classified as dangerous in the meaning of transport regulations.

## 15. REGULATORY INFORMATION

### 15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

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

### 15.2 CHEMICAL SAFETY ASSESMENT

For this product a chemical safety assessment was not carried out.

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## 16. OTHER INFORMATION

### Training advice

Provide adequate information, instruction and training for operators.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge, and is applicable to the product with regards to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Biotools, B & M Labs, S.A. shall not be held liable for any damage resulting from handling or from contact with the above product.

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