

# RELEBACTAM SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 GENERIC EU SDS - NO COUNTRY SPECIFIC OEL DATA

> Date of Issue: 2022-07-19 Revision Number: A/0

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Identifier : Relebactam Product Number : R055

CAS Number : [1174018-99-5] EC Number : [Not available]

REACH Registration Number : A registration number is not available for this substance as the substance or

its uses are exempted from registration, the annual tonnage does not require a registration, or the registration is envisaged for a later registration deadline.

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

Identified Uses : For research use only - restricted to professional users.

Uses Advised Against : Not for human or animal use

1.3 Details of the supplier of the safety data sheet

Company : TOKU-E Company

4112 Bakerview Spur Bellingham, WA 98226

Phone Number : (360) 734-1789 E-mail Address : info@toku-e.com

Safety Data Sheet Issued by : TOKU-E Company (USA)

1.4 Emergency telephone number

Emergency Phone Number (Internat.) : +1 (352) 353-3500 (INFOTRAC, 24-Hour Number) Emergency Phone Number (US Only) : 1 (800) 535-5053 (INFOTRAC, 24-Hour Number)

## **SECTION 2: HAZARDS IDENTIFICATION**

#### 2.1 Classification of the substance or mixture

# Classification according to Regulation (EC) No. 1272/2008

Acute toxicity, Oral (Category 4), H302 Acute aquatic toxicity (Category 1), H400 Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this section, see Section 16.

## 2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008

Hazard Pictogram(s):



Signal Word: No data available

Hazard Statement(s)

H302 Harmful if swallowed

H410 Very toxic to aquatic life with long lasting effects

## Precautionary Statement(s)

P264 Wash hands/skin thoroughly after handling.

P270 Do not eat, drink, or smoke when using this product.

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician IF you feel unwell

P330 Rinse mouth

P273 Avoid release to the environment.

P391 Collect spillage.

P501 Dispose of contents/container in accordance with governmental regulation

### **Supplemental Hazard Information**

No data available

#### 2.3 Other hazards

None

### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

#### 3.1 Substances

Synonym(s) : Sulfuric acid, mono[(1R,2S,5R)-7-oxo-2-[(4-piperidinylamino)carbonyl]-1,6- diazabicyclo[3.2.1]

oct-6-yl] ester

 $\begin{array}{lll} \mbox{Formula} & : & C_{12} H_{20} N_{100} O_6 S \\ \mbox{Molecular weight} & : & 348.38 \ g/mol \end{array}$ 

Hazardous ingredients according to Regulation (EC) No. 1272/2008

Component	Classification	Concentration			
Relebactam					
CAS Number [1174018-99-5]	Acute Tox Oral 4 H302 Aquat. Tox Acute 1 H400	≤ 100%			
EC Number [Not available]	Aquat. Tox Chron. 1 H410				

For the full text of the H-Statements mentioned in this section, see Section 16.

### **SECTION 4: FIRST-AID MEASURES**

### 4.1 Description of first-aid measures

### **General information**

Consult a doctor/physician if exposed - additional medical care may be required. Show this safety data sheet to the medical provider.

#### If inhaled

If inhaled, move to fresh air. If not breathing, give artificial respiration. Consult a physician.

# In case of skin contact

Wash skin thoroughly with soap and water. Remove any contaminated clothing. Consult a physician.

## In case of eye contact

Flush eye with water. After initial flush, remove any contact lenses and continue flushing for at least 15 minutes.

#### If swallowed

Rinse mouth with water. Immediately call a doctor, physician, or poison control center. Never give anything by mouth to an unconscious person.

## Self-protection of the first aider

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent the spread of

#### 4.2 Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

No data available

### **SECTION 5: FIRE-FIGHTING MEASURES**

## 5.1 Extinguishing media

#### Suitable extinguishing media

Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### Unsuitable extinguishing media

No data available

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

#### **Hazardous Combustion Products**

During combustion, may emit irritant fumes

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus if necessary.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

Consult the safety measures listed in Section 7 and 8. Use personal protective equipment. Avoid breathing dust, vapors, mist or gas. Avoid direct contact with spilled substances. Ensure adequate ventilation.

Avoid dust formation.

For personal protection see Section 8.

### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## 6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel.

## 6.4 Reference to other sections

Refer to section 8 for exposure control and personal protection. Refer to section 13 for disposal information.

# **SECTION 7: HANDLING AND STORAGE**

# 7.1 Precautions for safe handling

Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Avoid contact with skin and eyes.

## 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Protect from humidity.

Recommended storage temperature: 2-8 °C

### Incompatibilities:

Strong oxidizing agents

## 7.3 Specific end use(s)

Refer to section 1.2

# **SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION**

# 8.1 Control parameters

## Components with workplace control parameters:

No OEL data available

## 8.2 Exposure controls

## Appropriate engineering controls:

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling this product.

## Personal Protective Equipment (PPE):

#### Respiratory protection

Wear respiratory protection. Use type N95 (US) or type P1 (EN 143) dust masks as a backup to engineering controls. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal techniques to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the selected EN 374 derived from it.

## Eye/Face protection

Wear eye protection. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

## **Body protection**

Wear protective clothing. The type of protective equipment must be selected according to the concentration of the dangerous substance at the specific work place.

## **Environmental exposure controls**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance : Powder

Odor No data available Odor Threshold No data available No data available рΗ Melting Point/Freezing Point No data available Initial Boiling Point and Range No data available Flash Point No data available Evaporation rate No data available Flammability (solid, gas) No data available

Upper/Lower Flammability or

Explosive Limits : No data available Vapor Pressure : No data available Vapor Density : No data available Relative Density : No data available

Water Solubility : Soluble

Partition Coefficient: n-octanol/water : No data available
Auto-Ignition Temperature : No data available
Decomposition Temperature : No data available
Viscosity : No data available
Explosive Properties : No data available
Oxidizing Properties : No data available

## 9.2 Other information

No additional information relevant to safe use of the substance.

# SECTION 10: STABILITY AND REACTIVITY

## 10.1 Reactivity

No data available

## 10.2 Chemical stability

Stable under recommended storage conditions

## 10.3 Possibility of hazardous reactions

No data available

## 10.4 Conditions to avoid

No data available

## 10.5 Incompatible materials

Strong acids/alkalis, strong oxidising/reducing agents

## 10.6 Hazardous decomposition products

Under fire conditions, my decompose nand emit toxic fumes

See Section 5 for hazardous combustion products.

## **SECTION 11. TOXICOLOGICAL INFORMATION**

## 11.1 Information on toxicological effects

## **Acute Toxicity**

No data available

### Skin Corrosion/Irritation

No data available

## Serious Eye Damage/ Eye Irritation

No data available

## Respiratory or Skin Sensitization

No data available

## **Germ Cell Mutagenicity**

No data available

# Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by the International Agency for Research on Cancer Monograph.

### **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

## **Additional Information**

RTECS: No data available

Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information.

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

## **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

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

### 12.6 Other adverse effects

Toxic/harmful to aquatic life (with long lasting effects)

In the absence of complete ecological information, treat product as environmentally hazardous. Use proper storage, handling, and disposal to prevent unintentional release into the environment.

## **SECTION 13: DISPOSAL CONSIDERATIONS**

### 13.1 Waste treatment methods

#### **Product**

Offer surplus and non-recyclable products to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Avoid disposal of material in drains or sewers. Waste material must be disposed of in accordance with the Directive on Waste 2008/98/EC as well as other national and local regulations.

# **Contaminated Packaging**

Dispose of as unused product.

## **SECTION 14: TRANSPORT INFORMATION**

		ADR/RID	IMDG	IATA
14.1	UN Number	-	-	-
14.2	UN Proper Shipping Name	Not dangerous goods	Not dangerous goods	Not Dangerous Goods
14.3	Transport Hazard Class(es)	-	-	-
14.4	Packing Group	-	-	-
14.5	<b>Environmental Hazards</b>	No	Marine Pollutant: No	No

## 14.6 Special precautions for user

## **Further Information**

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

## 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

## **SECTION 15: REGULATORY INFORMATION**

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

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

### Authorizations and/or restrictions on use

Restricted to professional users.

## 15.2 Chemical safety assessment

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

## **SECTION 16: OTHER INFORMATION**

### Full text of H-Statements referred to under sections 2 and 3

H302 Harmful if swallowed

H410 Very toxic to aquatic life with long lasting effects

### Abbreviations and acronyms

ADR/RID: European Agreements Concerning the International Carriage of Dangerous Goods by Road (ADR)

and Rail (RID)

CAS No: Chemical Abstracts Service number

EC: European Commission

EC No: European Commission number EHS: Environmentally Hazardous Substance

EU: European Union

H-Statement: Hazard Statement

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association

IBC: International Bulk Chemical

IMDG: International Maritime Dangerous Goods Code

LC50: Lethal concentration, 50%

LD50: Median Lethal dose

MARPOL 73/78: International Convention for the Prevention of Pollution from Ships

NIOSH: National Institute for Occupation Safety and Health

OEL: Occupational Exposure Limit

PBT: Persistent, Bioaccumulative and Toxic

REACH: Registration, Evaluation, Authorisation and restrictions of Chemicals

RTECS: Registry of Toxic Effects of Chemical Substances

SDS: Safety Data Sheet UN: United Nations

vPvB: Very Persistent and Very Bioaccumulative

## **Further information**

Revision Date: 2022-07-19

The above information is based upon the present state of our knowledge and is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information is believed to be correct but does not purport to be all inclusive. It does not represent any guarantees of the properties of the product. TOKU-E Company shall not be held liable for damage or injury resulting from contact, handling, or storage of the above product.