

# LL-37 (HUMAN) TRIFLUOROACETATE SALT SAFETY DATA SHEET

Date of Issue 2017-04-20 Revision No. A/

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

#### 1.1 Product identifier

Product Identifier LL-37 (human) trifluoroacetate salt

Product Number L046

CAS Number [597562-32-8]
EC Number No Data Available

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

Recommended Use Natural product antimicrobial research.

Restrictions of Use Not for human or animal use

# 1.3 Details of the supplier of the safety data sheet

Distributor Name TOKU-E Company

Distributor Address 715 W Orchard Dr. Suite 3

Bellingham, WA 98225

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 (International) +1 (352) 353-3500 Emergency Phone Number (US Only) 1 (800) 535-5053

#### **SECTION 2: HAZARDS IDENTIFICATION**

#### 2.1 Classification of the substance or mixture

GHS Classification Not classified. Toxicology information unavailable.

(Please refer to Section 16 for regulatory

information)

#### 2.2 Label elements, including precautionary statements

**GHS Label Elements:** 

Signal Word None
Hazard Statements None
Precautionary Statements None

# 2.3 Other hazards which do not result in classification

Hazards not otherwise classified (HNOC) by GHS

No Data Available

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

#### 3.1 Substances

Formula  $C_{205}H_{340}N_{60}O_{53}$ 

Molecular Weight 4493.32
CAS Number [597562-32-8]
EC Number No Data Available
Hazardous Ingredients No Data Available

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

#### 4.1 Description of first-aid measures

General Advice 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 and immediately call local

emergency telephone number.

In Case of Skin Contact Wash skin thoroughly with soap and water.

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.

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

Specific Treatment Please see Section 2 and Section 11.

# 4.3 Indication of immediate medical attention and special treatment needed, if necessary

No Data Available

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

### 5.1 Extinguishing media

Suitable Extinguishing Media Water spray, alcohol-resistant foam, dry chemical,

carbon dioxide

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

Hazardous Combustion Products Formed under fire conditions: carbon and nitrogen

oxides, carbon monoxide,

hydrogen peroxide

#### 5.3 Advice for firefighters

Special Protective Equipment for

**Firefighters** 

Wear self-contained breathing apparatus

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

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

General Evacuate personnel to a safe location. Use

appropriate personal protective equipment while in contact with product. Avoid dust formation. Ensure

adequate ventilation.

Personal Precautions Prevent contamination of skin, eyes and clothing with

appropriate protective equipment (Section 8). Wear

respiratory protection.

**6.2 Environmental precautions** 

General Recover waste, if possible, and place in suitable

closed container for licensed disposal. Prevent

spillage - do not let product enter drains.

#### 6.3 Methods and materials for containment and cleaning up

The recommended course of action is to treat any incident that involves the spill/release of a chemical substance as if it were hazardous in nature until the appropriate personnel have been consulted. Wear personal protective equipment as necessary. If accessible, use a spill kit. For powder spills, avoid

generating dust during cleanup.

**6.4 Reference to other sections** Refer to section 8 for exposure control.

Refer to section 13 for disposal information.

#### **SECTION 7: HANDLING AND STORAGE**

**7.1 Precautions for safe handling** Wear appropriate protective clothing/gear to prevent

contact with skin and eyes. Provide exhaust

ventilation or respiratory protection in areas where

dust is formed.

7.2 Conditions for safe storage, including any incompatibilities

Store in a tightly closed container. Protect from

humidity.

Recommended storage temperature: -20°C

Incompatibilities No Data Available

**7.3 Specific end use(s)** Refer to section 1.2

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

#### 8.1 Control parameters

Contains no substance/substances with occupational exposure limit values

OSHA Permissible Exposure Limits

No Data Available

No Data Available

No Data Available

ACGIH Threshold Limit Values

No Data Available

### 8.2 Exposure controls

PPE: Respiratory protection Where risk assessment shows air-purifying

respirators are appropriate, use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. It

protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as

NIOSH (US) or CEN (EU)

PPE: Hand 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, and

wash and dry hands

PPE: Eye Protection Use a face shield and safety glasses. Use equipment

for eye protection tested and approved under appropriate government standards such as NIOSH

(US) or EN 166 (EU)

PPE: Skin and Body Protection Handle with gloves. Wear protective clothing. Choose

body protection according to the amount and concentration of the dangerous substance at the work place. When deemed needed according to the concentration and amount of this product, use a

complete body suit

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

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

**Appearance** Powder Odor No Data Available Odor Threshold No Data Available Hq No Data Available 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 Flammability/Explosion Limit No Data Available Lower Flammability/Explosion Limit No Data Available Vapor Pressure No Data Available Vapor Density No Data Available Relative Density No Data Available Water Solubility No Data Available Solubility in Other Solvents No Data Available Partition Coefficient: n-octanol/water No Data Available **Auto-Ignition Temperature** No Data Available **Decomposition Temperature** No Data Available Viscosity

Explosive Properties

Oxidizing Properties

Optical Rotation

Absorbance (290nm, 5% in H<sub>2</sub>O)

Water Content (Loss on Drying)

No Data Available

No Data Available

No Data Available

### **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 oxidizing agents

10.6 Hazardous decomposition

products

Formed under fire conditions: carbon and nitrogen

oxides, carbon monoxide,

hydrogen peroxide

# **SECTION 11. TOXICOLOGICAL INFORMATION**

# 11.1 Information on toxicological effects

Oral LD<sub>50</sub> No Data Available Inhalation LC<sub>50</sub> No Data Available Dermal LD<sub>50</sub> No Data Available Intraperitoneal LD<sub>50</sub> No Data Available Intravenous LD<sub>50</sub> No Data Available Subcutaneous LD<sub>50</sub> 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 This substance has not been identified as a potential

carcinogen within the National Toxicology Program Report on Carcinogens or within the International Agency for Research on Cancer Monograph.

No Data Available

Reproductive Toxicity

Specific Target Organ Toxicity: Single

N

Exposure (GHS)

No Data Available

Specific Target Organ Toxicity: Repeated No Data Available

Exposure (GHS)

Aspiration Hazard No Data Available

Potential Heath Effects See Section 2, Hazard(s) Identification

Signs and Symptoms of Exposure To the best of our knowledge, the chemical, physical,

and toxicological properties of this material have not

been thoroughly investigated

Synergistic Effects

No Data Available

Additional Information

No Data Available

# **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 PBT and vPvB assessment**No Data Available

**12.6 Other adverse effects**No Data Available

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

Dispose unused/spoiled product in accordance with local and federal regulations.

Sewering is not an acceptable form of waste disposal.

Product Dispose of product through a licensed disposal

company.

Contaminated Packaging Dispose of as unused product.

#### **SECTION 14: TRANSPORTATION INFORMATION**

DOT (US) Not a Dangerous Good

IMDG Not a Dangerous Good

IATA Not a Dangerous Good

#### **SECTION 15: REGULATORY INFORMATION**

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

Section 2/3: Hazards identification/labelling in accordance with OSHA 29 CFR 1910.1200

Section 2/3: Hazards identification/labelling in accordance with Regulation (EC) 1272/2008 SDS in accordance with Regulation (EC) 1907/2006

SARA 302 Components

No chemicals in this material are subject to the

reporting requirements of SARA Title III, Section 302.

SARA 313 Components

No chemicals in this material are subject to the

reporting requirements of SARA Title III, Section 313.

SARA 311/312 Hazards No chemicals in this material are subject to the

reporting requirements of SARA Title III, Section

311/312

Massachusetts Right to Know No components are subject to the Massachusetts

Right to Know Act

Pennsylvania Right to Know No components are subject to the Pennsylvania Right

to Know Act

New Jersey Right to Know No components are subject to the New Jersey Right

to Know Act

California Prop. 65 Components No

This product does not contain any chemicals known to the State of California to cause birth defects, cancer, or any other reproductive harm

EU Information SDS in accordance with Regulation (EC) 1907/2006

Identification, classification and labelling in accordance with Regulation (EC) 1272/2008

EC Number No Data Available CAS Number [597562-32-8]

Name: LL-37 (human) trifluoroacetate salt

Envisaged Registration Deadline: No Data Available

15.2 Chemical safety assessment

EU Information For this product a chemical safety assessment was

not carried out

16. OTHER INFORMATION

Revision Date: 2017-04-20

This safety data sheet represents TOKU-E Company's current understanding of the hazards associated with this product. The stated hazard information is based on existing experimental data and is not guaranteed to be all-inclusive. TOKU-E Company strives to maintain current and comprehensive safety information but recognizes that this safety data sheet may require revision as new information becomes available. TOKU-E Company shall not be held liable for damage or injury resulting from contact, handling, or storage of this product.