



MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION/DESCRIPTION OF THE MATERIAL AND OF THE COMPANY/ UNDERTAKING

Product Name: (S)-2-(2-oxopyrrolidin-1-yl)butanamide

Product Code: RLP-007

Lot No.: 210823-00701

Description: Reference substance in determining as **Levetiracetam**

Company: Reflabpharm LLC
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2. HAZARDS IDENTIFICATION

Main Hazards: Not known

PEL (Permissible Exposure Limit): Not known

TLV (Threshold Level Value): Not known

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS No.: [102767-28-2]

Molecular Formula: $C_8H_{14}N_2O_2$

Molecular Weight: 170.21g/mol



4. FIRST AID MEASURES

	SYMPTOMS	FIRST-AID MEASURES
Skin Contact	Not known	As a precautionary measure, wash the skin with plenty of water
Eye Contact	Not known	As a precautionary measure, flush your eyes with plenty of water
Ingestion	Not known	Wash out mouth with water and seek medical advice
Inhalation	Not known	Remove from exposure, rest, and keep warm. Seek medical advice

5. FIRE-FIGHTING MEASURES

Extinguishing media: Carbon dioxide, dry chemical powder, or an appropriate foam

Fire and Explosion Hazards: Not known

Protection of fire-fighters: Wear self-contained breathing apparatus and protective clothing

6. ACCIDENTAL RELEASE MEASURES

Personal safety: Mark out contaminated areas with signs and prevent unauthorized access. Evacuate and ventilate the area. Wear self-contained breathing devices, rubber boots, etc.

Environment safety: Do not discharge into drains and rivers. Contain the spillage with sand or earth.

Clean-up procedures: Sweep/absorb spillage in a suitable material. Transfer to a closable, labeled salvage container for disposal by an appropriate method. Ventilate the area and wash the spillage site after pick-up.

7. HANDLING AND STORAGE

Handling requirements: Avoid direct contact. Ensure enough ventilation in the area. Do not handle it in a confined space. Avoid the formation and spread of dust in the air.

Storage conditions: Store in the original airtight container in a cool dark place



Suitable packaging: Keep in original packaging

8. CONTROL MEASURES

- Engineering measures:** Ensure there is enough ventilation in the area
- Respiratory protection:** Respiratory protective device with particle filter. Self-contained breathing devices must be available in emergency.
- Hand protection:** Protective gloves
- Eye protection:** Safety glasses with side shields. Ensure eye bath is near-by
- Skin-protection:** Protective clothing
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9. PHYSICAL AND CHEMICAL CHARACTERISTICS

- Physical Appearance:** White powder
- Solubility:** Soluble in a Methanol
- Melting point:** 110.4-112.9 °C
- Flashpoint:** no data available
- Ignition temperature:** no data available
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10. STABILITY AND REACTIVITY

- Stability:** Stable under colder and dark storage conditions
- Conditions to avoid:** Heat & Light
- Materials to avoid:** Not known
- Hazardous decomposition/byproducts:** Not known
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11. TOXICOLOGICAL INFORMATION

Acute toxicity:	no data available
Irritation and corrosion:	no data available
Sensitization:	no data available
Chronic exposure:	no data available
Potential Health Effects	
Inhalation:	May be harmful if inhaled. May cause respiratory tract irritation
Skin:	May be harmful if absorbed through the skin. May cause skin irritation
Eyes:	May cause eye irritation
Ingestion:	May be harmful if swallowed

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability):	no data available
Ecotoxicity effects:	no data available
Further information on ecology:	no data available

13. DISPOSAL CONSIDERATIONS

Product:	Observe all federal, state, and local environmental regulations
Contaminated packaging:	Dispose of as unused product

14. TRANSPORT INFORMATION



ADR/RID: Not dangerous goods

IMD/IMO: Not dangerous goods

IATA/ICAO: Not dangerous goods

15.

REGULATORY INFORMATION

Hazard symbols: Not known

Risk phrases: Not known

Safety phrases: Keep out of the reach of children; Do not breathe; Avoid contact with skin and eyes; Avoid release to the environment

Note: The regulatory information given above only indicates principal regulations specifically applicable to the material described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions that complete these regulations. All applicable regional, national, and international regulations and/or provisions shall be referred.

16.

OTHER INFORMATION

Other Information: While the information herein is believed to be reliable, it is furnished without warranty of any kind. It shall be used only as a guide. We assume no liabilities from the use of this product and information contained herein.

Legal disclaimer: The information in this safety data sheet has been prepared with due care and is true and accurate to the best of our knowledge. The user must determine the suitability of the information for its particular purpose, ensure compliance with existing laws and regulations, and be aware that additional safety considerations may arise when using, handling, and/or storing the material. The information in this safety data sheet does not purport to be all-inclusive or guarantee as to the properties of the material supplied and should be used only as a guide. **Reflabpharm LLC** makes no warranties or representations as to the accuracy and completeness of the information contained herein, shall not be held responsible for the suitability of this information for the user's intended purposes or the consequences of such use, and shall not be liable for any damage or loss, how so ever arising, direct or otherwise.
