





### SECTION 5: Firefighting measures

#### SECTION 5: Fire-fighting measures

##### 5.1 Suitable extinguishing media

- Use extinguishing measures appropriate to surrounding fire (water spray, dry chemical, foam, carbon dioxide).

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

- No data available. Combustion may produce carbon oxides, nitrogen oxides, and other irritating/toxic fumes.

##### 5.3 Advice for firefighters

- Wear self-contained breathing apparatus and full protective gear.
- Use water spray to cool unopened containers exposed to heat.

##### 5.4 Further information

- Not available.

### SECTION 6: Accidental release measures

#### SECTION 6: Accidental release measures

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

- Avoid breathing dust/aerosols. Avoid contact with skin and eyes.
- Use appropriate personal protective equipment (see Section 8).
- Ensure adequate ventilation.

##### 6.2 Environmental precautions

- Avoid release to the environment. Prevent entry into drains, surface water, or soil.

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

- Avoid generating dust.
- Collect spilled material using suitable methods (e.g., damp wipe or HEPA-filtered vacuum) and place in a suitable, labeled container for disposal.
- Clean contaminated area.

##### 6.4 Reference to other sections

- See Sections 8 and 13.

### SECTION-7: Handling and storage

#### SECTION 7: Handling and storage

##### 7.1 Precautions for safe handling

- Handle in accordance with good industrial hygiene and safety practice.
- Avoid formation of dust/aerosols.
- Avoid contact with skin, eyes, and clothing.
- Do not eat, drink, or smoke when using this product. Wash hands after handling.

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

- Store tightly closed in original container.
- Store in a cool, dry, well-ventilated place.
- Protect from moisture.

- Incompatibilities: Not available.

### 7.3 Specific end use(s)

- API / laboratory and research use. Not for food, drug, or household use unless specifically authorized.

## SECTION 8: Exposure controls / personal protection

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

- Occupational exposure limits: Not available.
- Biological limit values: Not available.

#### 8.2 Exposure controls

- Engineering controls: Use adequate general ventilation. Where dust/aerosol may be generated, use local exhaust ventilation.
- Personal protective equipment (PPE):
- Eye/face protection: Safety glasses with side shields or chemical splash goggles.
- Skin protection: Protective gloves. Protective clothing as appropriate.
- Respiratory protection: If ventilation is inadequate or dust/aerosols are generated, use a suitable particulate respirator per applicable standards.
- Hygiene measures: Wash hands and exposed skin after handling. Remove contaminated clothing and wash before reuse.
- Environmental exposure controls: Avoid release to the environment.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Test	Result
Appearance	No data available
IR spectrum	No data available
pH	No data available
Solubility	No data available

Property	Value
a) Physical State	No data available
b) Color	No data available
c) Odor	No data available
d) pH	No data available
e) Vapour Pressure	No data available

Property	Value
f) Viscosity	No data available
g) Initial Boiling Point and boiling range	No data available
h) Melting Point / Freezing Point	No data available
i) Auto Ignition Temperature	No data available
j) Flash Point	No data available
k) Explosion Limit, Lower	No data available
l) Explosion Limit, Upper	No data available
m) Decomposition Temperature	No data available
n) Loss on Drying	No data available
o) Relative Density	No data available
p) Solubility (in DMSO)	No data available
q) Oxidizing Properties	No data available

## SECTION 10: Stability and reactivity

### 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

- Avoid excessive heat. Avoid moisture. Avoid dust generation.

#### 10.5 Incompatible materials

- Not available.

#### 10.6 Hazardous decomposition products

- No data available. Thermal decomposition may produce carbon oxides and nitrogen oxides.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

- Acute toxicity: In large clinical trials, serum enzyme elevations were no more common with lixisenatide therapy than with placebo or comparator agents. In pooled safety analyses of more than 5000 patients, ALT elevations above 3 times the upper limit of normal occurred in 0.6% of both lixisenatide and placebo groups and no instances of treatment related clinically apparent liver injury were reported. Since licensure, there have been no published case

reports of hepatotoxicity due to lixisenatide and the product label does not list liver injury as an adverse event. Thus, liver injury due to lixisenatide, as with other GLP-1 analogues, must be rare, if it occurs at all. Likelihood score: E (unlikely cause of clinically apparent liver injury).

- 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 data available.
- Reproductive toxicity: No data available.
- STOT-single exposure: No data available.
- STOT-repeated exposure: No data available.
- Aspiration hazard: No data available.

Likely routes of exposure

- No data available.

Symptoms related to the physical, chemical and toxicological characteristics

- Not available.

## SECTION 12: Ecological information

SECTION 12: Ecological information

12.1 Toxicity

- Not available.

12.2 Persistence and degradability

- Not available.

12.3 Bioaccumulative potential

- Not available.

12.4 Mobility in soil

- Not available.

12.5 Results of PBT and vPvB assessment

- Not available.

12.6 Endocrine disrupting properties

- Not available.

12.7 Other adverse effects

- Not available.

## SECTION 13: Disposal considerations

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Dispose of contents/container in accordance with local/regional/national/international regulations.
- Do not discharge to drains.
- Recommended disposal method: Incineration or disposal via a licensed chemical waste contractor, as appropriate.

- Contaminated packaging: Dispose of as unused product unless adequately cleaned.

### SECTION 14: Transport information

#### SECTION 14: Transport information

- UN number: Not available.
- UN proper shipping name: Not available.
- Transport hazard class(es): Not available.
- Packing group: Not available.
- Environmental hazards: Not available.
- Special precautions for user: Not available.
- Transport in bulk according to IMO instruments: Not available.

Note: Transport classification may vary by mode and jurisdiction; confirm with carrier and applicable regulations.

### SECTION 15: Regulatory information

#### SECTION 15: Regulatory information

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

- Not available.

##### 15.2 Chemical safety assessment

- Not available.

### SECTION 16: Other information

#### SECTION 16: Other information

- Product name: Lixisenatide
- Catalog No.: CS-L-00133
- CAS No.: 320367-13-3
- Molecular weight: 4858.49
- Supplier: Clearsynth Labs Ltd., Mumbai, India
- Emergency phone: +91-22-245045900

#### Disclaimer

- The information provided is believed to be accurate based on available data; however, it is provided without warranty. Users must determine suitability for their particular application and comply with all applicable laws and regulations.
- Not for use as a finished pharmaceutical product.

### DISCLAIMER

This MSDS is system-generated. Please verify and confirm all data, statements, and values with the Support Team before use or distribution.