7-2-9 Saito-Asagi, Ibaraki-Shi, Osaka 567-0085, Japan

## Safety Data Sheet (SDS)

## 1. PRODUCT AND COMPANY IDENTIFICATION

Catalog Code Number: 3421-v Product Name: 4-[D10]Leu-M1 Supplier's Name: Peptide Institute, Inc. Address: 7-2-9 Saito-Asagi, Ibaraki-Shi, Osaka 567-0085, Japan Phone Number: 81-72-643-4411 Fax Number: 81-72-643-4422 Recommended uses: Reagent Restrictions on use: Seek expert judgment as necessary. Creation Date: January 27, 2020 Revised: May 13, 2024 (ver.2)

## 2. HAZARDS IDENTIFICATION

#### **Classification of the substance or mixture**

GHS classification Not a hazardous substance

**Other hazards:** The chemical, physical and toxicological properties of this product have not been thoroughly investigated. Exercise due care.

## **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Single Substance or Mixture: Single Substance Common Chemical Name, Common Name or Substance Name: 4-[D10]Leu-M1 **Synonym:** [[<sup>2</sup>H<sub>10</sub>]Leu<sup>B6,B11,B15,B17</sup>]-M1 (Trifluoroacetate form) Structure: A-chain: Gly-Ile-Val-Glu-Gln-Cys-Cys-Thr-Ser-Ile-Cys-Ser-Leu-Tyr-Gln-Leu-Glu-Asn-Tyr-Cys-Gly B-chain: Phe-Val-Asn-Gln-His-[<sup>2</sup>H<sub>10</sub>]Leu-Cys-Gly-Ser-His-[<sup>2</sup>H<sub>10</sub>]Leu-Val-Glu-Ala-[<sup>2</sup>H<sub>10</sub>]Leu-Tyr-[<sup>2</sup>H<sub>10</sub>]Leu-Val-Cys-Gly-Glu-Arg-Gly-Phe-Phe-Tyr-Thr-Pro-Lys-Thr (Disulfide bonds between Cys<sup>A6</sup>-Cys<sup>A11</sup>, Cys<sup>A7</sup>-Cys<sup>B7</sup>, Cys<sup>A20</sup>-Cys<sup>B19</sup>) Molecular Formula: C<sub>255</sub>H<sub>340</sub>D<sub>40</sub>N<sub>64</sub>O<sub>76</sub>S<sub>6</sub> (M.W. 5790.8) Product Description: Stable Isotope-Labeled Insulin Glargine Metabolite M1 CAS Registry Number: -**EINECS No.:** -UN No. & Hazard Class: This material is not classified as hazardous goods. **4. FIRST AID MEASURES Inhalation:** If inhaled, remove person to fresh air and keep comfortable for breathing. Wash your mouth and nasal cavity

thoroughly with clean water and get medical attention. **Skin contact:** In case of skin contact, wash with plenty of water. Call a doctor, if you feel unwell. **Eye contact:** In case of contact with eyes, wash with plenty of water. Call a doctor, if you feel unwell. **Ingestion:** If swallowed, rinse mouth. Call a doctor, if you feel unwell.

## **5. FIRE FIGHTING MEASURES**

**Suitable Extinguishing media:** Water spray, carbon dioxide, dry chemical powder, or appropriate form. **Unsuitable Extinguishing media:** Nothing special.

**Special extinguishing method:** Complies with fire extinguishing method in normal fire.

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#### Specific hazards arising from the chemical product:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

### 6. ACCIDENTAL RELEASE MEASURES

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

Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves.

### **Environmental precautions:**

To be careful not discharged to the environment without being properly handled waste water contaminated.

#### Methods and materials for contaminant and methods and materials for cleaning up:

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust.

## 7. HANDLING AND STORAGE

#### Handling:

Technical measures: No data available

**Precautions for safe handling:** Avoid inhalation. Avoid contact with eyes, skin and clothing.

#### Storage:

Condition for safe storage: Keep container tightly closed. Store in a cool dry place.

**Recommended storage temperature:** -20 °C.

Container and packaging materials for safe handling: No data available

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls: No data available

**Exposure limits:** No data available

#### Concentration standard values under Japanese Safety and Health Act: No data available

#### Personal protective equipment:

Wear appropriate respirator, chemical-resistant gloves, safety goggles, other protective clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid (amorphous powder) Color: White **Odor:** No data available Melting point/freezing point: No data available Boiling point or initial boiling point and boiling range: No data available Flammability: No data available Lower and upper explosion limit/flammability limit: No data available Flash point: No data available Auto-ignition temperature: No data available Decomposition temperature: No data available pH: No data available Kinematic viscosity: No data available Solubility: Soluble in H<sub>2</sub>O *n*-Octanol/water partition coefficient: No data available Vapor pressure: No data available Density and/or relative density: No data available Relative vapor density: No data available Particle characteristics: No data available

## **10. STABILITY AND REACTIVITY**

Reactivity: No data available

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Chemical stability: No data available Possibility of hazardous reactions: No data available Conditions to avoid: No data available Incompatible materials: No data available Hazardous decomposition products: No data available

## 11. TOXICOLOGICAL INFORMATION

Acute toxicity: No data available Skin irritation/corrosion: No data available Serious eye damage/ irritation: No data available Respiratory or skin sensitization: No data available Reproductive 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

## **12. ECOLOGICAL INFORMATION**

Ecotoxicity: No data available Persistence and degradability: No data available Bioaccumulative potential: No data available Mobility in soil: No data available Hazards to ozone layer: No data available

## **13. DISPOSAL CONSIDERATIONS**

Information on the safe and environmentally sound disposal or recycling of chemicals and contaminated containers and packaging:

Obey local/national regulations.

## **14. TRANSPORT INFORMATION**

**UN number and UN classification:** This material is not classified as hazardous goods. **Regulatory information if there are Japanese regulations:** Not applicable.

#### **15. REGULATORY INFORMATION**

Names of applicable Japanese laws and information on regulation based on those laws:

Export Trade Control Order Appended Table 1 and Ministerial Ordinance that establishes cargo or technology pursuant to the provision of the Appended Table of Foreign Exchange Order Article 1-3 (Corresponding to deuterium compound). Caution: The chemical, physical and toxicological properties of this product have not been thoroughly investigated. Exercise due care.

## **16. OTHER INFORMATION**

**Disclaimer:** NOT FOR USE IN HUMANS. For R&D use only. Not for drug, household or other uses. **Reference:** 

1. JCIA: Japan Chemical Industry Association GHS support Guidelines (September, 2023)

2. JIS Z 7253:2019 Hazard communication of chemicals based on GHS-Labelling and Safety Data Sheet (SDS)

3. NITE: National Institute of Technology and Evaluation (JAPAN) web site

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