# Peptide Institute, Inc.

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

# Safety Data Sheet (SDS)

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Catalog Code Number: 4060-v Product Name: β-Endorphin (Human) 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 Creation Date: April 10, 1996 Revised: September 13, 2023 (ver. 5)

#### 2. HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

GHS classification Not a hazardous substance

Other hazards: No data available

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture: Single Substance

Common Chemical Name, Common Name or Substance Name: β-Endorphin (Human)

**Synonym:** β-Lipotropin (Human, 61-91)

Structure: Tyr-Gly-Gly-Phe-Met-Thr-Ser-Glu-Lys-Ser-

Gln-Thr-Pro-Leu-Val-Thr-Leu-Phe-Lys-Asn-Ala-Ile-Ile-Lys-Asn-Ala-Tyr-Lys-Gly-

Glu

**Molecular Formula:** C<sub>158</sub>H<sub>251</sub>N<sub>39</sub>O<sub>46</sub>S (M.W. 3465.0)

CAS Registry Number: 61214-51-5

**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.

**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.

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#### 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
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

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

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**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: Not applicable.

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 (June, 2019)
- 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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