# 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: 3405-v

**Product Name:** [<sup>13</sup>C<sub>18</sub>, <sup>15</sup>N<sub>3</sub>]-Hepcidin (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 Recommended uses: Reagent

**Restrictions on use:** Seek expert judgment as necessary.

Creation Date: July 30, 2014 Revised: March 19, 2024 (ver.3)

### 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: [13C18, 15N3]-Hepcidin (Human)

**Synonym:** [[<sup>13</sup>C<sub>9</sub>, <sup>15</sup>N]Phe<sup>4,9</sup>, [<sup>15</sup>N]Gly<sup>12</sup>]-Hepcidin (Human)

**Structure:** Asp-Thr-His-[<sup>13</sup>C<sub>9</sub>, <sup>15</sup>N]Phe-Pro-Ile-Cys-Ile-[<sup>13</sup>C<sub>9</sub>, <sup>15</sup>N]Phe-Cys-

Cys-[15N]Gly-Cys-Cys-His-Arg-Ser-Lys-Cys-Gly-

Met-Cys-Cys-Lys-Thr

(Reported disulfide bonds between Cys<sup>7</sup>-Cys<sup>23</sup>, Cys<sup>10</sup>-Cys<sup>13</sup>, Cys<sup>11</sup>-Cys<sup>19</sup>, and Cys<sup>14</sup>-Cys<sup>22</sup>)

**Molecular Formula:**  $C_{95}^{13}C_{18}H_{170}N_{31}^{15}N_3O_{31}S_9$  (M.W. 2810.2)

Product Description: Stable Isotope-Labeled Peptide for Mass Spectrometric Detection of Hepcidin (Human)

CAS Registry Number: -

**EINECS No.: -**

UN No. & Hazard Class: -

#### 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.

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#### 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

Chemical stability: No data available

Possibility of hazardous reactions: No data available

Conditions to avoid: No data available

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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: 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 (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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