# 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: 4517-v

**Product Name: AIP-III** 

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 31, 2019 **Revised:** May 14, 2025 (ver. 2)

#### 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:

AIP-III

Synonym: Autoinducing Peptide-III, AIP3
Structure: Ile-Asn-Cys-Asp-Phe-Leu-Leu
(Thioester bond between Cys<sup>3</sup>-Le

(Thioester bond between Cys³-Leu<sup>7</sup>)

(Trifluoroacetate Form)

**Molecular Formula:** C<sub>38</sub>H<sub>58</sub>N<sub>8</sub>O<sub>10</sub>S (M.W. 818.98)

**Product Description:** An Apparent Peptide Modulator of Quorum Sensing in *Staphylococcus* spp.

CAS Registry Number: 460325-19-3

**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.

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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 (powder)
Color: No data available
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 Soluble in 90% AcOH or DMSO *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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