## 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: 4457-s Product Name: Purotoxin-1

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 24, 2015

Revised: December 21, 2021 (ver. 3)

#### 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 Name: Purotoxin-1

(Wolf Spider Geolycosa sp.)

Structure: Gly-Tyr-Cys-Ala-Glu-Lys-Gly-Ile-Arg-Cys-

Asp-Asp-Ile-His-Cys-Cys-Thr-Gly-Leu-Lys-Cys-Lys-Cys-Asn-Ala-Ser-Gly-Tyr-Asn-Cys-

Val-Cys-Arg-Lys-Lys

(Disulfide bonds between Cys<sup>3</sup>-Cys<sup>16</sup>, Cys<sup>10</sup>-Cys<sup>21</sup>, Cys<sup>15</sup>-Cys<sup>32</sup>, and Cys<sup>23</sup>-Cys<sup>30</sup>)

**Molecular Formula:** C<sub>155</sub>H<sub>248</sub>N<sub>50</sub>O<sub>48</sub>S<sub>8</sub> (M.W. 3836.5) **Product Description:** Inhibitor of P2X3 Purinoreceptors

**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

Extinguishing media: Water spray, carbon dioxide, dry chemical powder, or appropriate form.

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:** 

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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: Avoid inhalation. Avoid contact with eyes, skin and clothing.

Storage: Keep container tightly closed. Store in a cool dry place. Recommended Storage -20 °C.

#### 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

Appearance and Odor: White amorphous powder

Reactivity in Water: No reactivity

Solubility: Soluble in H<sub>2</sub>O

#### 10. STABILITY AND REACTIVITY

**Stability:** No data available **Reactivity:** 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

#### 13. DISPOSAL CONSIDERATIONS

Observe all federal, state and local environmental regulations.

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

### 14. TRANSPORT INFORMATION

UN number and UN classification: This material is not classified as hazardous goods.

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#### 15. REGULATORY INFORMATION

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, 2012)
- 2. JIS Z7253:2012 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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