# Safety Data Sheet (SDS)

## 1. PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Catalog Code Number:</th>
<th>4110-v/4110-s</th>
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</thead>
<tbody>
<tr>
<td>Product Name:</td>
<td>VIP (Human, Porcine)</td>
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<tr>
<td>Supplier's Name:</td>
<td>Peptide Institute, Inc.</td>
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<tr>
<td>Address:</td>
<td>7-2-9 Saito-Asagi, Ibaraki-Shi, Osaka 567-0085, Japan</td>
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<td>Phone Number:</td>
<td>81-72-643-4411</td>
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<tr>
<td>Fax Number:</td>
<td>81-72-643-4422</td>
</tr>
<tr>
<td>Creation Date:</td>
<td>October 29, 2014</td>
</tr>
<tr>
<td>Revised:</td>
<td>November 14, 2018 (ver.2)</td>
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</tbody>
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## 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:** VIP (Human, Porcine)

**Synonym:** Vasoactive Intestinal Peptide (Human, Porcine) (Bovine, Rat, Canine)

**Structure:**

His-Ser-Asp-Ala-Val-Phe-Thr-Asp-Asn-Tyr-Thr-Arg-Leu-Arg-Lys-Gln-Met-Ala-Val-Lys-Lys-Tyr-Leu-Asn-Ser-Ile-Leu-Asn-NH₂

**Molecular Formula:** C¹₄₇H₂₃₈N₄₄O₄₂S (M.W. 3325.8)

**CAS Registry Number:** 40077-57-4

**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:**

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:**

SDS No. 4110 VIP (Human, Porcine)
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 H₂O

### 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.

### 15. REGULATORY INFORMATION

Not applicable.

SDS No. 4110 VIP (Human, Porcine)
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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