# 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: 4477-s Product Name: Phytosulfokine 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: June 11, 2014 Revised: September 14, 2023 (ver.4)

## 2. HAZARDS IDENTIFICATION

<u>Classification of the substance or mixture</u> 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: Phytosulfokine Synonym: PSK (Ammonium Form) Structure: Tyr(SO<sub>3</sub>H)-Ile-Tyr(SO<sub>3</sub>H)-Thr-Gln Molecular Formula: C<sub>33</sub>H<sub>46</sub>N<sub>6</sub>O<sub>16</sub>S<sub>2</sub> (M.W. 846.88) Product Description: Potent Mitogenic Factor in Plants CAS Registry Number: 179667-62-0 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. **Methods and materials for contaminant and methods and materials for cleaning up:** 

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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 Respiratory or skin sensitization: No data available

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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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