7-2-9 Saito-Asagi, Ibaraki-Shi, Osaka 567-0085, Japan

# Safety Data Sheet (SDS)

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Catalog Code Number: 1046 Product Name: HBTU

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:** December 8, 2015 **Revised:** September 4, 2024 (ver.3)

#### 2. HAZARDS IDENTIFICATION

Category 2

### Classification of the substance or mixture

#### **GHS** classification

HEALTH HAZARDS

SKIN CORROSION/IRRITATION Category 2

SERIOUS EYE DAMAGE/ EYE IRRITATION

RESPIRATORY SENSITIZATION Category 1

SKIN SENSITIZATION Category 1

SPECIFIC TARGET ORGAN TOXI CITY (SINGLE EXPOSURE) Category 3 (Respiratory tract irritancy)

Pictograms or hazard symbols



Signal word Danger

Hazard statements

Causes skin irritation

May cause an allergic skin reaction

Causes serious eye irritation

May cause allergy or asthma symptoms or breathing difficulties if inhaled

May cause respiratory irritation

#### Precautionary statements

# Prevention

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wash skin thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection.

Wear respiratory protection.

# Response

IF ON SKIN: Wash with plenty of soap and water.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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Call a doctor if you feel unwell.

If skin irritation occurs: Get medical advice/attention.

If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

If experiencing respiratory symptoms: Call a doctor.

Take off contaminated clothing and wash it before reuse.

Storage

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Disposal

Dispose of contents/container to an approved waste disposal plant.

Other hazards: No data available

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture: Single Substance

Common Chemical Name, Common Name or Substance Name:

1-[Bis(dimethylamino)methylene]-1*H*-benzotriazolium 3-oxide hexafluorophosphate

**Molecular Formula:** C<sub>11</sub>H<sub>16</sub>N<sub>5</sub>O • PF<sub>6</sub> (M.W. 234.28 • 144.96)

CAS Registry Number: 94790-37-1

**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:

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:** 

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**Condition for safe storage:** Keep container tightly closed. Store in a cool dry place.

Recommended storage temperature: 2-10 °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:** White to pale yellow **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 10% DMF or CH<sub>3</sub>CN

*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: GHS classification Category 2 Serious eye damage/irritation: GHS classification Category 2 Respiratory or skin sensitization: GHS classification Category 1

Reproductive cell mutagenicity: No data available

Carcinogenicity: No data available Reproductive toxicity: No data available

**STOT-single exposure:** GHS classification Category 3 respiratory tract irritation

STOT-repeated exposure: No data available

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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.

- 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
- 4. CAS SciFinder<sup>n</sup>

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