

## Safety Data Sheet (SDS)

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Catalog Code Number:** 1022  
**Product Name:** HOBt  
**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 16, 2008  
**Revised:** August 30, 2018 (ver.4)

### 2. HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

#### GHS classification

##### PHYSICAL HAZARDS

EXPLOSIVES Division 1.3

##### HEALTH HAZARDS

ACUTE TOXICITY: ORAL Not classified

##### Pictograms



Signal word Danger

##### Hazard statements

Explosive; fire, blast or projection hazard

##### Precautionary statements

##### Prevention

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Ground/bond container and receiving equipment.

Do not subject to grinding/shock/friction.

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

##### Response

In case of fire: cool with a lot of water/ Extinguish with a foam extinguishing agent.

In case of fire: Evacuate area.

Explosion risk in case of fire.

DO NOT fight fire when fire reaches explosives.

##### Storage

Store in a cool place / a well-ventilated place.

Store away from other substances.

##### 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:** 1-Hydroxybenzotriazole

**Molecular Formula:** C<sub>6</sub>H<sub>5</sub>N<sub>3</sub>O (M.W. 135.12)

# Peptide Institute, Inc.

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

**CAS Registry Number:** 2592-95-2

**EINECS No.:** 219-989-7

**UN No. & Hazard Class:** UN0508, Class 1.3C

## 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, Foam extinguishing agent

**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:**

Remove the nearby ignition source, absorb by absorbent, sweep and remove. After completely removing contaminants, ventilate and clean contaminated areas.

## 7. HANDLING AND STORAGE

**Handling**

**Technical measures:** Remove ignition source and prevent generation and accumulation of static electricity.

**Precautions:** Avoid heat, shock and friction.

Be careful not to spill it when taking it in or out of the container.

Wash hands, face etc. and gargle thoroughly immediately after handling.

Avoid inhalation of dust and contact with eyes, skin, clothing.

**Safety Handling Precautions:** When handling, wear appropriate protective equipment and perform local ventilation.

**Storage:** Keep container tightly closed. Store in a cool dry place. Recommended Storage: Room temperature

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering controls:** Use local ventilation. Install emergency eyes cleansing facility and shower near the handling place.

**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 or slightly reddish white crystals or crystalline powder

**Reactivity in Water:** No reactivity

**Solubility:** Easily dissolved in hot water, soluble in MeOH or DMF

**Melting point:** 156 - 161 °C

## 10. STABILITY AND REACTIVITY

**Stability:** It is stable under ordinary storage and handling conditions, and no dangerous decomposition or polymerization occurs.

Risk of explosion by contact with metal.

When it is heated to 180 °C or higher, it decomposes rapidly while generating heat.

It explode if it gives a strong shock.

**Reactivity:** Japanese regulations

Fire Service Act: Category V, Hydrazine derivatives Dangerous grade 1 Type-1 Self-reactive substance

**Hazardous decomposition products:** When burning it generates toxic gases (NO<sub>x</sub>, CO, etc.).

## 11. TOXICOLOGICAL INFORMATION

**Toxicity:** LD<sub>50</sub> (*p.o.* mouse): 7,000 mg/kg      GHS classification Not classified

LDLo (*p.o.* rat): 5,000 mg/kg

**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

When incinerating, incinerate it little by little in an incinerator equipped with a scrubber.

Observe all federal, state and local environmental regulations.

## 14. TRANSPORT INFORMATION

**UN number and UN classification:**

UN number: UN0508

UN classification: Class 1.3C

Proper shipping name: 1-HYDROXYBENZOTRIAZOLE, ANHYDROUS, dry or wetted with less than 20% water, by mass

## 15. REGULATORY INFORMATION

**Japanese regulations**

Fire Service Act: Category V, Hydrazine derivatives Dangerous grade 1 Type-1 Self-reactive substance

Civil Aeronautics Law: No loading (Enforcement Regulation Article 194 · Notification Appended Table 1, Classification Category 1.3C)

Ship Safety Act: Explosives (Dangerous Rule Notification Appendix Table 1, Classification Category 1.3C)

Act on Port Regulations: Explosives (Enforcement Regulation Article 12 · Notification 547 Appended Table)

Caution: The chemical, physical and toxicological properties of this product have not been thoroughly investigated.

# Peptide Institute, Inc.

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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-Labeling and Safety Data Sheet (SDS)
3. NITE: National Institute of Technology and Evaluation (JAPAN) web site
4. The Chemical Daily Co., Ltd.: Chemical products of 16112 (2012)

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