

**SAFETY DATA SHEET**

According to 1907/2006/EC, Article 31

Revision number: 3

Revision date: 06/19/2024

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifiers**

**Product name:** 1H-Benzotriazol-1-yloxytripyrrolidinophosphonium Hexafluorophosphate [Coupling Reagent for Peptide]  
**Product code:** B1774

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

**Identified uses:** Reagents.

**1.3 Details of the supplier of the safety data sheet****Supplier:**

TCI EUROPE N.V.  
Boerenveldseweg 6  
Haven 1063  
B-2070 Zwijndrecht  
Telephone: +32(0)3 735 07 00  
E-mail: sales-eu@tcichemicals.com

**1.4 Emergency telephone number:** +32(0)70 245 245

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture**

<b>Acute toxicity (Oral)</b>	Category 4
<b>Skin sensitization</b>	Category 1
<b>Specific target organ toxicity - Repeated exposure [Category 2]</b>	Organs
<b>Acute aquatic hazard</b>	Category 1
<b>Long-term aquatic hazard</b>	Category 1

**2.2 Label elements****Pictograms or hazard symbols****Signal word**

Warning

**Hazard statements**

H302-Harmful if swallowed.  
H317-May cause an allergic skin reaction.  
H373-May cause damage to organs through prolonged or repeated exposure.  
H400-Very toxic to aquatic life.

**Precautionary statements**

H410-Very toxic to aquatic life with long lasting effects.  
P260-Do not breathe dust/fume/gas/mist/vapours/spray.  
P270-Do not eat, drink or smoke when using this product.  
P264-Wash hands and face thoroughly after handling.  
P280-Wear protective gloves.  
P302+P352+P333+P313+P362+P364-IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Take off contaminated clothing. And wash it before reuse.  
P314-Get medical advice or attention if you feel unwell.  
Dust explosion possible if in powder or granular form, mixed with air.

**2.3 Other hazards****Results of PBT and vPvB assessment**

**PBT:** Not applicable  
**vPvB:** Not applicable

### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

<b>Components:</b>	1H-Benzotriazol-1-yloxytripyrrolidinophosphonium Hexafluorophosphate [Coupling Reagent for Peptide]
<b>Percent:</b>	>98.0%(HPLC)
<b>CAS RN:</b>	128625-52-5
<b>Chemical Formula:</b>	C <sub>18</sub> H <sub>28</sub> F <sub>6</sub> N <sub>6</sub> OP <sub>2</sub>

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

<b>Inhalation:</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
<b>Skin contact:</b>	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
<b>Eye contact:</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
<b>Ingestion:</b>	Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.
<b>Protection of first-aiders:</b>	A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

#### 4.2 Most important symptoms and effects, both acute and delayed

No data available

#### 4.3 Indication of any immediate medical attention and special treatment needed

No data available

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

**Suitable extinguishing media:** Dry chemical, foam, water spray, carbon dioxide.

#### 5.2 Special hazards arising from the substance or mixture

Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume. Carbon monoxide, Carbon dioxide, Nitrogen oxides (NOx), Hydrogen fluoride, Phosphorus oxides

#### 5.3 Advice for firefighters

Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so. When extinguishing fire, be sure to wear personal protective equipment

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc

#### 6.2 Environmental precautions

Be careful not to let it flow into rivers, etc., since adverse effects on the environment are concerned

#### 6.3 Methods and materials for containment and cleaning up

Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

#### 6.4 Reference to other sections

For disposal see section 13.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent dispersion of dust. Wash hands and face thoroughly after handling. Use a local exhaust if dust or aerosol will be generated. Avoid contact with skin, eyes and clothing.

#### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store in a refrigerator. Store under inert gas. Protect from moisture. Store away from incompatible materials such as oxidizing agents. Heat-sensitive, Light-sensitive, Moisture-sensitive

#### 7.3 Specific end use(s)

No further relevant information available.

## SECTION 8: Exposure controls/personal protection

<b>8.1 Control parameters</b>	No data available
<b>8.2 Exposure controls</b>	Install a closed system or local exhaust as possible so that workers should not be exposed directly. Also install safety shower and eye bath.
<b>Respiratory protection:</b>	Dust respirator. Follow local and national regulations.
<b>Hand protection:</b>	Protective gloves.
<b>Eye protection:</b>	Safety glasses. A face-shield, if the situation requires.
<b>Skin and body protection:</b>	Protective clothing. Protective boots, if the situation requires.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Physical state (20°C):</b>	Solid
<b>Form:</b>	Crystal - Powder
<b>Colour:</b>	White - Slightly pale yellow
<b>Odour:</b>	No data available
<b>pH:</b>	No data available
<b>Melting point/freezing point:</b>	No data available
<b>Boiling point/range:</b>	No data available
<b>Flash point:</b>	No data available
<b>Evaporation rate(Butyl Acetate=1):</b>	No data available
<b>Flammability(solid, gas):</b>	No data available
<b>Flammability or explosive limits:</b>	
<b>Lower:</b>	No data available
<b>Upper:</b>	No data available
<b>Vapour pressure:</b>	No data available.
<b>Vapour density:</b>	No data available
<b>Relative density:</b>	No data available
<b>Solubility(ies):</b>	
<b>[Water]</b>	No data available
<b>[Other solvents]</b>	No data available
<b>Partition coefficient:</b>	No data available
<b>n-octanol/water:</b>	
<b>Autoignition temperature:</b>	No data available
<b>Decomposition temperature:</b>	No data available
<b>Dynamic Viscosity:</b>	No data available
<b>Kinematic viscosity:</b>	No data available

<b>9.2 Other safety information</b>	No data available
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## SECTION 10: Stability and reactivity

<b>10.1 Reactivity</b>	No data available
<b>10.2 Chemical stability</b>	Stable under proper conditions.
<b>10.3 Possibility of hazardous reactions</b>	No special reactivity has been reported.
<b>10.4 Conditions to avoid</b>	No data available
<b>10.5 Incompatible materials</b>	Oxidizing agents
<b>10.6 Hazardous decomposition products</b>	Carbon monoxide, Carbon dioxide, Nitrogen oxides (NOx), Hydrogen fluoride, Phosphorus oxides

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute Toxicity:	No data available
Skin corrosion/irritation:	No data available
Serious eye damage/irritation:	No data available
Respiratory or skin sensitization:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	
IARC =	No data available
NTP =	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

## SECTION 12: Ecological information

### 12.1 Toxicity

Fish:	No data available
Crustacea:	No data available
Algae:	No data available

12.2 Persistence and degradability No data available

12.3 Bioaccumulative potential No data available

### 12.4 Mobility in soil

Log Pow:	No data available
Soil adsorption (Koc):	No data available
Henry's Law (PaM <sup>3</sup> /mol):	No data available

### 12.5 Results of PBT and vPvB assessment

PBT:	Not applicable
vPvB:	Not applicable

12.6 Other adverse effects No data available

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

**SECTION 14: Transport information**

14.1 UN number	3077
14.2 UN proper shipping name	
ADR/RID	Environmentally hazardous substance, solid, n.o.s
IMDG/IMO	Environmentally hazardous substance, solid, n.o.s
ICAO/IATA	Environmentally hazardous substance, solid, n.o.s
14.3 Transport hazard class(es)	
ADR/RID	9: Miscellaneous dangerous goods
IMDG/IMO	9: Miscellaneous dangerous goods
ICAO/IATA	9: Miscellaneous dangerous goods
14.4 Packaging group	
ADR/RID	III
IMDG/IMO	III
ICAO/IATA	III
14.5 Environmental hazards	
Marine pollutant	Y
14.6 Special precautions for user	No data available

**SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	
Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No.1907/2006	Not listed
15.2 Chemical safety assessment	A chemical safety assessment has not been carried out.

**SECTION 16: Other information**

Prepared by:	TCI EUROPE N.V.
Issue date:	06/19/2024

This SDS was prepared sincerely on the basis of the information we could obtain, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.

**End of Safety Data Sheet**