According to Regulation (EC) No. 1272/2008 Language: English

Safety Data Sheet

Revision: 1.07 Modified: 2022-02-08

1: Identification of substance / mixture

1. Product Identifier Substance

Product Name 1H-Benzotriazol-1-yloxytripyrrolidinophosphonium hexafluorophosphate

Product Code IL-PYB
CAS Number 128625-52-5
Other Names PyBOP

IUPAC

MFCD Number MFCD00077411 EC/EINECS 603-290-2

REACH Number Index-No

2. Relevant identified uses of the substance or mixture and uses advised against

Research and Development

3. Details of the supplier of the safety data sheet

ISOMERLAB D.O.O. TRZASKA CESTA 297A

SI-1000 LJUBLJANA

SLOVENIA



Fax: Email:

Telephone:

4. Emergency telephone number

112

2. Hazards Identification

1. Classification of the substance or mixture

H302	cute Tox. 4	Acute Tox. 4	
H317	skin Sens. 1	Skin Sens. 1	
H410	quatic Chronic	Aquatic Chronic 1	

+38640764332

2. Label elements

Signal Word Warning





Hazard Statements

H302	Harmful if swallowed.	
H317	May cause an allergic skin reaction.	
H410	Very toxic to aquatic life with long lasting effects.	

Precautionary Phrases

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.	
P272	Contaminated work clothing should not be allowed out of the workplace.	
P273	Avoid release to the environment.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.	
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.	
P363	Wash contaminated clothing before reuse.	

3. Other Hazards

Additional precautionary phrases are located throughout the safety data sheet

3. Composition / Information on Ingredients

1. Substances

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Hazards **Product Name** Concentration 1H-Benzotriazol-1-yloxytripyrrolidinophosphonium hexafluorophosphate CAS Number: 128625-52-5 H302, H317, H410 Acute Tox. 4, Aquatic Chronic 1, <=100% EC/EINECS: 603-290-2 Skin Sens. 1

4. First Aid Measures

1. Description of first aid measures

P302 + P352: IF ON SKIN: Wash with plenty of soap and water. Skin Contact

P333 + P313: If skin irritation or rash occurs: Get medical advice/attention.

Eye Contact Rinse opened eye for several minutes under running water.

Wash out mouth with water. Ingestion

Inhalation Move to fresh air in case of accidental inhalation of vapours.

2. Most important symptoms and effects

There may be irritation and redness.

3. Indication of any immediate medical attention

No additional measures required

5. Firefighting measures

1. Extinguishing Media

Suitable Carbon dioxide.

> Alcohol or polymer foam. Dry chemical powder.

Unsuitable no data

2. Special Hazards arising from the substance or mixture

In combustion toxic fumes may form.

3. Advice for Fire Fighters

Wear protective clothing to prevent contact with skin and eyes.

Wear self-contained breathing apparatus.

6. Accidental Release Measures

1. Personal Precautions

Do not attempt to take action without suitable protective clothing – see section 8 of SDS.

2. Environmental Precautions

Do not discharge into drains or rivers.

Contain the spillage using bunding.

3. Methods & Materials

Mix with sand or vermiculite.

Transfer to a suitable container.

4. Preventing the occurrence of secondary hazards.

No Special Measures Required

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7. Handling and Storage

1. Personal Precautions

Ensure there is sufficient ventilation of the area. Safe Handling

P273: Avoid release to the environment.

Protection against P272: Contaminated work clothing should not be allowed out of the workplace.

explosions and fires P363: Wash contaminated clothing before reuse.

2. Conditions for safe storage, including any incompatibilities

Managing Storage Risks Store in cool, well ventilated area.

Keep container tightly closed.

Storage Controls No special requirements

Maintaining Integrity Keep in tightly closed container in cool area away from direct sunlight or heat sources.

Other advice no further information available

3. Specific End Uses

The end use(s) have not been fully determined. The substance is supplied for Research and Development purposes by professionals only.

8. Exposure Controls/Personal Protection

1. Control Parameters

No Data Available

2. Exposure Controls

General protective and hygiene measures

P280: Wear protective gloves/protective clothing/eye protection/face protection.

Wash hands during breaks and at the end of handling the material

Immediately remove any contaminated clothing

Ensure there is sufficient ventilation of the area. Engineering measures

Eye / Face Protection Safety Glasses with side-shields.

Hand protection Protective gloves.

P261: Avoid breathing dust/fume/gas/mist/vapours/spray. Respiratory protection

Use breathing protection with high concentrations

Skin protection Handle with gloves.

Gloves must be inspected prior to use.

Use proper glove removal technique to avoid skin contact with this product.

Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory

Wash and dry hands. Protective clothing.

Other personal protection

advice

no data

9. Physical and Chemical Properties

1. Physical and Chemical Properties

Appearance	Solid
Odour	No Data Available
Odour threshold	No Data Available
PH	No Data Available
Melting point / Freezing point	<=160°C
Initial boiling point and boiling range	No Data Available
Flash point	No Data Available

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Evaporation rate	No Data Available
Flammability(solid,gas)	No Data Available
Upper/lower flammability or explosive limits	No Data Available
Vapour pressure	No Data Available
Vapour density	No Data Available
Relative density	1.438
Solubility(ies):	No Data Available
Partition coefficient: n-octanol/water	No Data Available
Auto-ignition temperature	No Data Available
Decomposition temperature	150°C
Viscosity	No Data Available
Explosive properties	No Data Available
Oxidising properties	No Data Available

2. Other Information

No additional information available

10. Stability and Reactivity

1. Reactivity

no unusual reactivity

2. Stability

Stable under normal conditions.

3. Possibility of Hazardous Reactions

no hazardous reactions known

4.Conditions to Avoid

no specific conditions to avoid

5. Incompatible Materials

Oxidising agents.

6. Hazardous Decomposition Products

In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

In combustion emits toxic fumes of nitrogen oxides.

In combustion emits toxic fumes of hydrogen fluoride.

In combustion emits toxic fumes of phosphorus oxides.

11. Toxicology information

1. Information

Acute Toxicity no data

Skin corrosion/irritation irritant for skin and mucous membranes

Serious eye

Damage/irritation

irritant effect

Respiratory or skin sensitisation

May cause an allergic skin reaction

Germ Cell mutagenicity

not known

Carcinogenicity

not known

Reproductive toxicity

not known

STOT-single exposure

not known

STOT-repeated exposure

not known

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Aspiration hazard

not known

2. Additional

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

No classification data on carcinogenic properties of this material is available from the EPA, IARC,NTP,OSHA or ACGIH

12. Ecological Information

1. Toxicity

not known

2. Persistence and degradability

not known

3. Bio-Accumulative Potential

not known

4. Mobility and Soil

not known

5. Results of PBT & vPvB assessment

not known

6. Other adverse effects

Water hazard class 2 (self assessment); hazardous for water. Very toxic to aquatic life with long lasting effects.

13. Disposal Considerations

1. Waste Treatment Methods

Disposal Operations

Disposal of Packaging Disposal must be made according to official regulations.

14. Transport Information

Air (ICAO)

Not classified as hazardous for transport

Road (ADR)

Not classified as hazardous for transport

Sea (IMDG)

Not classified as hazardous for transport

15. Safety, health, environmental and national regulations

1. Safety, health, environmental and national regulations:

product is not subject to any additional regulations or provisions

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2. Safety Assessment

No Chemical Safety Assessment

16. Other Information

1. Other Information:

ADR: Accord Europeen sur le transport des merchandises Dangereuses par Route(European Agreement concerning the International Carriage of Dangerous Goods by road)

RID:Reglement International concernant le transport des merchandises dangereuses par chemin de fer (Regulations concerning the International transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the International Air Transport Association

ICAO:International Civil Aviation Organization ICAO-TI: Technical Instructions by the ICAO

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service

3. Disclaimer

The product listed is for research and development purposes only and not for human or animal use. As such, in most cases, the toxicological, ecological and physicochemical properties have not been fully determined and the product should be treated with respect and always handled under suitable conditions by appropriately qualified personnel. The responsible party shall use this datasheet only in conjunction with other sources of information gathered by them, and should make an independent judgement of suitability, to ensure proper use and protect the health and safety of employees. This information is furnished without warranty and any use of the product not in conformance with this material safety data sheet, or in combination with any other product or process, is the responsibility of the user.