Safety Data Sheet



1. Identification of Substance / Mixture

Product Identifier

CAS

Product Name O-(Benzotriazol-1-yl)-N,N,N',N'-tetramethyluronium hexafluorophosphate

94790-37-1

HBTU [Benzotriazol-1-yloxy(dimethylamino)methylene]-dimethyl-ammonium hexafluorophosphate **Other Names**

[(1H-Benzotriazol-1-yl)oxy](dimethylamino)-N,N-dimethylmethaniminium hexafluorophosphate 1-

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

009019 **Product Code**

MFCD00075445 MDL

619-076-7 **EINECS**

REACH Registration Number

Research and Development **Relevant Uses** No uses advised against.

Supplier Details

Uses Advised Against

Fluorochem Limited Company

Unit 14, Graphite Way, Hadfield. SK13 1QH. UK **Address**

+44(0)1457 860111 Telephone sds@fluorochem.co.uk **Email**

+44(0)1457 860111 (08:00 - 17:30) **Emergency Telephone**

2. Hazards Identification

Skin Irrit. 2 Classification

Skin Sens. 1 Eye Irrit. 2A STOT SE 3

Signal Word Warning

Pictograms

H315 Causes skin irritation. Hazards

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H335 May cause respiratory irritation.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray. **Precautions**

P264 Wash hands thoroughly after handling. P271 Use only outdoors or in a well-ventilated area.

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

P280 Wear face protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. P312 Call a POISON CENTER/doctor if you feel unwell.

P321 Specific treatment.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Other Classification Hazards

3. Composition of Ingredients

SUBSTANCE

Name CAS **Einecs** Composition Hazards 94790-37-1 <= 100%

O-(Benzotriazol-1-yl)-N,N,N',N'tetramethyluronium hexafluorophosphate

619-076-7

H315 Skin Irrit. 2 H317 Skin Sens. 1 H319 Eye Irrit. 2A H335 STOT SE 3

Eye contact Where Diphoterine is not available, rinse eyes with copious amounts of water for at least 20 minutes.

Ingestion Where Diphoterine is not available, rinse mouth with copious amounts of water. Seek urgent medical advice.

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. If victim begins to feel

unwell, seek urgent medical advice.

Skin Contact Where Diphoterine is not available, rinse skin with copious amounts of water for at least 20 minutes.

General Advice No additional advice.

Most Important Symptoms and

Effects

No known symptoms or effects.

Immediate First Aid Measures No additional first aid measures required.

5. Fire Fighting Measures

Unsuitable Fire Extinguishing Media No known unsuitable media.

Special Hazards Thermal decomposition can lead to release of irritating gases and vapours.

Advice for Fire Fighters As in any fire, wear self-contained breathing apparatus and full protective gear.

6. Accidental Release Measures

Personal Precautions Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure

adequate ventilation. Keep personnel away from spill/leak.

Environmental PrecautionsDo not let product enter drains or waterways. Avoid discharge into the environment.

Containment - Methods and Spill Response should only be carried out by trained or qualified personnel.

Materials

For personal protection see section 8. For disposal see section 13.

7. Handling and Storage

Personal Precautions

Referenced SDS Sections

Safe Handling

Wear appropriate personal protective equipment. Use only under a chemical fume hood ensuring adequate

Where possible, use anti static and spark proof equipment when handling.

ventilation, especially if dust, aerosol or fumes will be generated. Avoid contact with skin, eyes and clothing. For

precautions see section 2.2.

Protection Against Explosion and Fire

General Occupational Hygiene

rire

Handle in accordance with good industrial hygiene and safety practice. Wash hands before and after use. Do not

eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use.

Conditions for Safe Storage and Incompatabilities

Managing Storage Risks Keep container tightly closed and upright. Store in a cool, dry and well-ventilated place.

Storage Controls No special requirements

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

Other Advice No other specific advice available.

Specific End Use(s)

No specific end uses are advised. The products supplied are for research purposes only.

8. Exposure Controls / Personal Protection

Control Parameters

Country Info Long Short Short Ceiling Ceiling Other Remarks Long Unit (mam3) Term Term Term Term (ppm) (mgm3) (mgm3) (maga) (mag)

Engineering MeasuresUse only under a chemical fume hood ensuring adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are

close to the workstation location.

Face Protection Wear tightly fitting safety goggles which adhere to European standard EN 166. Ensure eye bath is to hand.

Hand Proection Handle with impermeable gloves. Inspect gloves before use. Gloves must satisfy the specifications of EU

Directive 89/686/EEC and the standard EN374 derived from it. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use

in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Skin ProtectionWear appropriate protective clothing ensuring all skin is covered. Wear safety shoes that meet at least S1 standards. The type of protective equipment must be selected according to the concentration and amount of

standards. The type of protective equipment must be selected according to the concentration and amount of

the dangerous substance at the specific workplace.

Respiratory Protection Product should be handled in a fume cupboard with adequate extraction. No respiratory equipment is needed

under normal use conditions.

Hygiene Protection Ensure hair or skin particles cannot enter the chemical container.

Avoid discharge into the environment, see section 6.2.

9. Physical and Chemical Properties

Solid State

No data available. **Appearance** No data available. Odour No data available. Odour Threshold

4.1

No data available. **Melting Point / Freezing Point** No data available. **Initial Boiling Point** No data available. **Boiling Range** No data available. Flash Point No data available. **Evaporation Rate** No data available. Flammability No data available. **Upper / Lower Flammability or**

Explosion Limits

No data available. Vapour Pressure No data available. Vapour Density No data available. **Relative Density** No data available. Solubility No data available. **Partion Coefficient** No data available. **Auto Ignition Temperature**

>200°C **Decomposition Temperature**

No data available. Viscosity No data available. **Explosive Properties** No data available. **Oxidising Properties**

No additional information available Other information

10. Stability and Reactivity

No known reactivity, based on information available. Reactivity

Stable under recommended storage conditions. Stability

None under normal storage conditions. **Possibility of Hazardous Reactions** Excess heat. Exposure to moisture. **Conditions To Avoid**

Strong oxidising agents. **Incompatible Materials**

In combustion emits toxic fumes of carbon dioxide / carbon monoxide. **Hazardous Decomposition Products**

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

Oral LD50, Rabbit, >2000mg/kg **Acute Toxicity**

No Toxicology data available for this product. **Skin Corrosion / Irritation** No Toxicology data available for this product. Serious Eye Damage / Irritation No Toxicology data available for this product. **Respiratory or Skin Sensitisation** No Toxicology data available for this product. **Germ Cell Mutagenicity** No Toxicology data available for this product. Carcinogencity No Toxicology data available for this product. **Reproductive Toxicity** No Toxicology data available for this product. **STOT-single Exposure** No Toxicology data available for this product. STOT-repeated Exposure No Toxicology data available for this product. **Aspiration Hazard** No Toxicology data available for this product. **Additional Toxicology Information**

12. Ecological Information

No Ecological data available for this product. Toxicity

No Ecological data available for this product. Persistence and Degradability

Bio-Accumulative PotentialNo Ecological data available for this product.Mobility in SoilNo Ecological data available for this product.Results of PBT and vPvB assessmentNo Ecological data available for this product.Endocrine Disrupting PropertiesNo Ecological data available for this product.

13. Disposal Considerations

Other Adverse Effects

Disposal Operations Ensure product is disposed of by licensed waste carriers.

Disposal of PackagingEnsure INNER PACKAGING is disposed of by licensed waste carriers. Some OUTER PACKAGING MAY be

No Ecological data available for this product.

recyclable if not contaminated.

14. Transport Information

This product is classified as non-hazardous for transport.

15. Regulatory Information

Regulatory Information As far as Fluorochem is aware, there are no further regulations controlling this product.

Chemical Safety Assessment No Chemical Safety Assessment available for this product.

16. Other Information

Information Not Covered in Other Sections

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

Revision

Date Modified 05/01/2023

DisclaimerThe 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

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. This SDS adheres to Regulation (EC) No 1907/2006.