

Reviewed on 08/05/2013

## 1 Identification

· Product identifier

· Trade name: HATU

N,N,N',N'-Tetramethyl-O-(7-azabenzotriazol-1-yl)uronium

hexafluorophosphate

· Article number: 4553

· CAS Number: 148893-10-1

· Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

- · Application of the substance / the preparation Chemical for research, development, manufacturing and analysis
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Biosolve B.V.

Leenderweg 78, 5555 CE Valkenswaard, the Netherlands.

Tel: +31-(0)40-2071300 Fax:+31-(0)40-2048537

Email: info@biosolve-chemicals.com

Biosolve Chimie

20 Rue Roger Husson, 57260 Dieuze, France Tel: +33 3 878 675 80/81/82/83/84/85 Email: info@biosolvechimie.com

Bio-Lab Ltd.

POB 34038, Jerusalem 91340, Israel

Tel: + 972 -2- 584 1111 Fax: + 972 -2- 584 1110

Email: info@biolab-chemicals.com

- · Information department: Product safety department
- · Emergency telephone number: During normal opening times: +972 2 584 1111

## 2 Hazard(s) identification

· Classification of the substance or mixture



GHS08 Health hazard

May cause allergy or asthma symptoms or breathing difficulties if inhaled.



H317 May cause an allergic skin reaction.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC



**Irritant** 

May cause sensitisation by inhalation and skin contact.

· Information concerning particular hazards for human and environment: Not applicable.

(Contd. on page 2)



Reviewed on 08/05/2013

Trade name: HATU

N,N,N',N'-Tetramethyl-O-(7-azabenzotriazol-1-yl)uronium

hexafluorophosphate

(Contd. of page 1)

- · Label elements
- · Labelling according to EU guidelines:

The product has been classified and marked in accordance with directives on hazardous materials.

· Code letter and hazard designation of product:



Harmful

· Risk phrases:

May cause sensitisation by inhalation and skin contact.

· Safety phrases:

Do not breathe dust.

Wear suitable protective clothing and gloves.

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 0Fire = 0Reactivity = 0

· HMIS-ratings (scale 0 - 4)



\*0 Health = \*0Fire = 0

- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · **vPvB**: Not applicable.

# 3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description

148893-10-1 HATU

N,N,N',N'-Tetramethyl-O-(7-azabenzotriazol-1-yl)uronium

hexafluorophosphate

· Identification number(s) Not available

## 4 First-aid measures

- · Description of first aid measures
- · After inhalation:

Supply fresh air and to be sure call for a doctor.

*In case of unconsciousness place patient stably in side position for transportation.* 

· After skin contact: Immediately wash with water and soap and rinse thoroughly.

(Contd. on page 3)



Reviewed on 08/05/2013

Trade name: HATU

N,N,N',N'-Tetramethyl-O-(7-azabenzotriazol-1-yl)uronium

hexafluorophosphate

(Contd. of page 2)

· After eye contact: Rinse opened eye for several minutes under running water.

· After swallowing: If symptoms persist consult doctor.

- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

## 5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.

## 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions: No special measures required.
- · Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to item 13.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 Handling and storage

· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of dust.

- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:

Tightly closed and away from sources of ignition and heat.

Recommended storage temperature: 2 - 8 °C

- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Recommended storage temperature 2 8 °C
- · Specific end use(s) No further relevant information available.

## 8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace: Not required.
- · Additional information: The lists that were valid during the creation were used as basis.

(Contd. on page 4)



Reviewed on 08/05/2013

Trade name: HATU

N,N,N',N'-Tetramethyl-O-(7-azabenzotriazol-1-yl)uronium

hexafluorophosphate

(Contd. of page 3)

- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:



#### Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection: Not required.

# 9 Physical and chemical properties

. Intoumation	AN HACIA	nhugiani	anda	40141001	nuanautiac
<ul> <li>Information</li> </ul>	on pasic	musicui	unu ci	иетисии	monerues

· General Information

· Appearance:

Form: Solid material

*Color:* White to off-white soild

• Odor: Odorless • Odour threshold: Not determined.

· pH-value: Not applicable.

· Change in condition

*Melting point/Melting range:* 183 - 190 °C (361 - 374 °F)

Boiling point/Boiling range: Undetermined.

· Flash point: Not applicable.

· Flammability (solid, gaseous): Product is not flammable.

· Ignition temperature:

**Decomposition temperature:** Not determined.

· Auto igniting: Not determined.

• **Danger of explosion:** Product does not present an explosion hazard.

(Contd. on page 5)



Reviewed on 08/05/2013

Trade name: HATU

Explosion limits: Lower:

Upper:

N,N,N',N'-Tetramethyl-O-(7-azabenzotriazol-1-yl)uronium

Not determined.

Not determined.

hexafluorophosphate

(Contd. of page 4)

Vapor pressure: Not applicable.
Density: Not determined.
Relative density Not determined.
Vapour density Not applicable.
Evaporation rate Not applicable.

· Solubility in / Miscibility with

Water: No data available

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

**Dynamic:** Not applicable. **Kinematic:** Not applicable.

• Other information No further relevant information available.

# 10 Stability and reactivity

- · Reactivity
- · Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

# 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: No irritating effect.
- · Sensitization:

Sensitization possible through inhalation. Sensitization possible through skin contact.

- · Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) Substance is not listed.
- · NTP (National Toxicology Program) Substance is not listed.

## 12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.

(Contd. on page 6)



Reviewed on 08/05/2013

Trade name: HATU

N,N,N',N'-Tetramethyl-O-(7-azabenzotriazol-1-yl)uronium

hexafluorophosphate

(Contd. of page 5)

- · Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

# 13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

4 Transport information	
· UN-Number · DOT, ADR, ADN, IMDG, IATA	Void
· UN proper shipping name · DOT, ADR, ADN, IMDG, IATA	Void
· Transport hazard class(es)	
· DOT, ADR, ADN, IMDG, IATA · Class	Void
· Packing group · DOT, ADR, IMDG, IATA	Void
· Environmental hazards: · Marine pollutant:	No
· Special precautions for user	Not applicable.
· Transport in bulk according to Annex MARPOL73/78 and the IBC Code	<b>II of</b> Not applicable.
· UN "Model Regulation":	-

# 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Sara
- · Section 355 (extremely hazardous substances): Substance is not listed.
- · Section 313 (Specific toxic chemical listings): Substance is not listed.
- · TSCA (Toxic Substances Control Act): Substance is not listed.
- · Proposition 65
- · Chemicals known to cause cancer: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.

(Contd. on page 7)



Reviewed on 08/05/2013

Trade name: HATU

N,N,N',N'-Tetramethyl-O-(7-azabenzotriazol-1-yl)uronium

hexafluorophosphate

(Contd. of page 6)

- · Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is not listed.
- Carcinogenic categories
- · EPA (Environmental Protection Agency) Substance is not listed.
- · TLV (Threshold Limit Value established by ACGIH) Substance is not listed.
- · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.
- · Product related hazard informations:

The product has been classified and marked in accordance with directives on hazardous materials.

· Hazard symbols:



Harmful

· Risk phrases:

May cause sensitisation by inhalation and skin contact.

· Safety phrases:

Do not breathe dust.

Wear suitable protective clothing and gloves.

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

· Chemical safety assessment: A Chemical Safety Assessment has been carried out.

# 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · **Department issuing MSDS:** Product safety department
- · Contact: Product safety department
- · Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)