

Safety Data Sheet



1. Identification of Substance/ Identification of Company

Product: HATU

Catalog #: CXZ025

Chemical Formula: C₁₀H₁₅F₆N₆OP

Synonyms: 2-(1H-7-Azabenzotriazol-1-yl)-1,1,3,3-tetramethyl uronium hexafluorophosphate

Relevant Identified Uses: Laboratory chemicals, manufacture of substances

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2. Hazards Identification

GHS Classification in Accordance with 29 CFR 1910 (OSHA)

Flammable Solids (Category 1): H228

Skin Irritation (Category 2), H315

Eye Irritation (Category 2A), H319

Specific Target Organ Toxicity - Single Exposure (Category 3) Respiratory System,
H335

GHS label elements

Pictogram:



Signal word: Danger

Hazard statements:

H228

Flammable solid

H315

Causes skin irritation.

H319

Causes serious eye irritation.

H335

May cause respiratory irritation

Precautionary statements:

P210

Keep away from heat/sparks/open flames/hot surfaces.
Do not smoke.

P240

Ground/bond container and receiving equipment

P241

Use explosion-proof electrical/ventilating/lighting
equipment.

P261

Avoid breathing dust.

P264

Wash skin thoroughly after handling

P271

Use only outdoors or in a well-ventilated area

P280

Wear protective gloves/eye protection/face protection

P302+P352

IF ON SKIN: Wash with plenty of soap and water

P304+P340

IF INHALED: Remove victim to fresh air and keep at rest
in a position 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 or a doctor/physician if you feel unwell.
P321	Specific treatment (see supplemental first aid instructions)
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention
P362	Take off contaminated clothing and wash before reuse.
P370+P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up
P501	Dispose of contents/container to an approved waste disposal plant.

Hazards Not Otherwise Classified (HNOC) or Not Covered by GHS: none

3. Composition/ information on ingredients

Substance/preparation: Substance

Chemical Name: 2-(1H-7-Azabenzotriazol-1-yl)-1,1,3,3-tetramethyl uranium hexafluorophosphate

Chemical Formula: C₁₀H₁₅F₆N₆OP

Molecular Weight: 380.23

CAS #: 148893-10-1

EC #: Not available

Hazardous Components

Component: 2-(1H-7-Azabenzotriazol-1-yl)-1,1,3,3-tetramethyl uronium hexafluorophosphate

Classification: Flammable solid 1; Skin Irritant 2; Eye Irritant 2A; STOT SE 3, H228; H315, H319, H335

Concentration: 90-100%

4. First Aid Measures

First Aid Measures

General Advice: Consult a physician. Show this safety data sheet to the physician in attendance. Move out of the dangerous area.

Inhalation: If inhaled, move person to fresh air. If not breathing, give artificial respiration. Consult a physician

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Skin Contact: Wash off with soap and plenty of water. Consult a physician.

Eye Contact: Rinse thoroughly with water for 15 minutes and consult a physician.

Effects and Symptoms, Both Acute and Delayed

The most important known symptoms and effects are described in the labeling (see section 2) and/or in section 11.

Indication of Immediate Medical Attention and Special Treatment Needed

No data available

5. Fire-fighting Measures

Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special Hazards Arising From the Substance or Mixture: carbon oxides, nitrogen oxides (NO_x), phosphorous oxides, hydrogen fluoride

Advice for Firefighters: Wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

Further Information: Use water spray to cool unopened containers.

6. Accidental Release Measures

Personal Precautions: Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not allow product to enter drains.

Methods and Materials for Containment and Clean Up: Pick up and arrange disposal without creating dust. Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet brushing and place in a container for disposal in accordance with local regulations (see section 13). Keep in suitable, closed containers for disposal.

Reference to Other Sections: For disposal see Section 13

7. Handling and Storage

Handling: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition. – No smoking. Take measures to prevent electrostatic charge. For precautions see Section 2.

Conditions for Safe Storage: Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: 2 - 8 °C.

Specific End Uses: Apart from the uses mentioned in Section 1, no other specific uses are stipulated.

8. Exposure Controls/Personal Protection

Control Parameters: Contains no substances with occupational exposure limit values.

Exposure Controls

Appropriate Engineering Controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday

Personal Protective Equipment

Eye/Face Protection: Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin Protection: Handle with gloves. Gloves must be inspected prior to use. 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.

Full contact Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min

Splash contact Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection: Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory Protection: For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of Environmental Exposure: Do not let product enter drains.

9. Physical and Chemical Properties

Appearance: Off-white to light brown crystals or powder

Odor: No data available

Odor Threshold: No data available

pH: No data available

Melting Point: 183-185 °C (361-365 °F) – lit.

Boiling Point and Boiling Range: No data available

Flash Point: No data available

Evaporation Rate: No data available

Flammability (solid, gas): The substance or mixture is a flammable solid with the category 1

Vapor Pressure: No data available

Vapor Density: No data available

Relative Density: No data available

Water Solubility: No data available

Partition Coefficient n-Octanol/Water: No data available

Auto-Ignition Temperature: No data available

Decomposition Temperature: No data available

Viscosity: No data available
Explosive Properties: No data available
Oxidizing Properties: No data available

10. Stability and Reactivity

Reactivity: No data available
Chemical Stability: Stable under recommended storage conditions.
Possibility of Hazardous Reactions: No data available
Conditions to Avoid: No data available
Hazardous Decomposition Products
Other Decomposition Products: No data available
In Event of Fire: See Section 5

11. Toxicological Information

Acute Toxicity: No data available
Dermal: No data available
Skin Corrosion/Irritation: No data available
Serious Eye Damage/Eye Irritation
Respiratory or Skin Sensitisation: No data available
Germ Cell Mutagenicity
Carcinogenicity:
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Reproductive Toxicity: No data available
Specific Target Organ Toxicity – Single Exposure: No data available
Inhalation – May cause respiratory irritation
Specific Target Organ Toxicity – Repeated Exposure: No data available
Aspiration Hazard: No data available
Additional Information: RTECS Not available

Salivation, nausea, abdominal pain, vomiting, fever, rapid respiration. Fluoride ion can reduce serum calcium levels possibly causing fatal hypocalcemia. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. Ecological Information

Toxicity: No data available
Persistence and Degradation: No data available
Bioaccumulative Potential: No data available
Mobility in Soil: No data available
Results of PBT and vPvB Assessment: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
Other Adverse Effects: No data available

13. Disposal Considerations

Waste Treatment Methods – Product: Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care as this material is highly flammable. Contact a licensed professional waste disposal service to dispose of this material. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated Packaging: Dispose of as unused product.

14. Transportation

DOT (US):

Not classified as dangerous in the meaning of transport regulations

IMDG:

Not classified as dangerous in the meaning of transport regulations

IATA:

Not classified as dangerous in the meaning of transport regulations

15. Regulatory Information

REACH No.: A registration number is not available for this substance as the substance or its uses are exempt from registration, the annual tonnage does not require a registration or the registration is envisioned for a later registration deadline.

SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards: Fire hazard, Acute health hazard

Massachusetts Right To Know Components:

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components:

2-(1H-7-Azabenzotriazol-1-yl)-1,1,3,3-tetramethyl uronium hexafluorophosphate
CAS-No: 148893-10-1 Revision Date:

New Jersey Right To Know Components:

2-(1H-7-Azabenzotriazol-1-yl)-1,1,3,3-tetramethyl uronium hexafluorophosphate
CAS-No. 148893-10-1 Revision Date

California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. Other Information

Full Text of H-Statements Referred to Under Sections 2 and 3.

H228 Flammable solids
H315 Causes skin irritation.

H319 Causes serious eye irritation.
H335 May cause respiratory irritation
STOT SE Specific target organ toxicity – single exposure

Hazardous Material Information System (U.S.A.)

Health	2
Fire Hazard	3
Reactivity	3
Personal Protection	

National Fire Protection Association (U.S.A.)



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