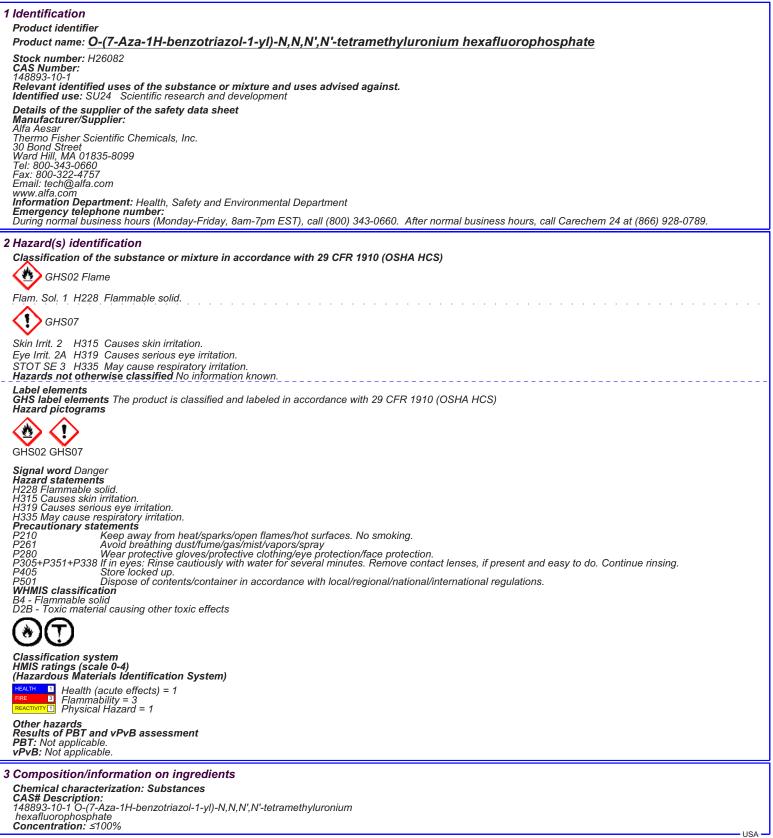




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(Contd. on page 2)

(Contd. of page 1)

Product name: O-(7-Aza-1H-benzotriazol-1-yl)-N,N,N',N'-tetramethyluronium hexafluorophosphate

	(contar of page 1)
4 First-aid measures	
Description of first aid measures After inhalation Supply free or it frequired provide estificial requiretion. Keep petient warm	
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin contact	
Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.	
After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment.	
Information for doctor Most important symptoms and effects, both acute and delayed	
Causes skin irritation. Causes serious eye irritation.	
Indication of any immediate medical attention and special treatment needed No further relevant information available.	
5 Fire-fighting measures Extinguishing media	
Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture	
If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide	
Hydrogen fluoride (HF) Nitrogen oxides (NOx) Phosphorus oxides	
Advice for firefighters	
Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	
6 Accidental release measures Personal precautions, protective equipment and emergency procedures	
Wear protective equipment. Keep unprotected persons away.	
Keep away from ignition sources Environmental precautions: Do not allow material to be released to the environment without proper governmental permits.	
Methods and material for containment and cleaning up: Ensure adequate ventilation. Prevention of secondary hazards: Keep away from ignition sources. Reference to other sections	
Reference to other sections See Section 7 for information on safe handling See Section 8 for information on personal protection equipment	
See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information. Protective Action Criteria for Chemicals	
PAC-1: Substance is not listed. PAC-2: Substance is not listed.	
PAC-3: Substance is not listed.	
7 Handling and storage	
Handling Precautions for safe handling Handle under dry protective gas.	
Keep container tightly sealed	
Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Information about protection against explosions and fires: Protect against electrostatic charges.	
Conditions for safe storage, including any incompatibilities Storage	
Requirements to be met by storerooms and receptacles: Store in a cool location. Information about storage in one common storage facility:	
Store away from water/moisture.	
Store away from oxidizing agents. Further information about storage conditions: Store under dry inert gas.	
This product is moisture sensitive	
Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Protect from humidity and water.	
Specific end use(s) No further relevant information available.	
8 Exposure controls/personal protection Additional information about design of technical systems:	
Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Control parameters	
Control parameters Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.	
Additional information: No data	
Exposure controls Personal protective equipment Converse restrictive equipment	
General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed	
Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work.	
Avoid contact with the eves and skin	
Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present.	(Contd. on page 3)
	USA -

Safety Data Sheet acc. to OSHA HCS

(Contd. of page 2)

Product name: O-(7-Aza-1H-benzotriazol-1-yl)-N,N,N',N'-tetramethyluronium hexafluorophosphate

(Contd. of page 1) Recommended filter device for short term use: Use a respirator with type P100 (USA) or P3 (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. Protection of hands: Impervious gloves Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. Material of gloves Nitrile rubber, NBR Penetration time of glove material (in minutes) 480

Glove thickness: 0.11 mm Eye protection: Safety glasses with side shields / NIOSH (US) or EN 166(EU) Body protection: Protective work clothing.

9 Physical and chemical properties

9 Physical and chemical properties	
Information on basic physical and ch General Information Appearance: Form: Odor: Odor: Odor threshold:	emical properties Crystalline powder Odorless Not determined.
pH-value:	Not applicable.
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	ca 185 °C (ca 365 °F) (dec) Not determined Not determined
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not applicable Highly flammable. Not determined Not determined Not determined.
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water) Viscosity: dynamic:	Product does not present an explosion hazard. Not determined Not determined Not determined Not determined. Not applicable. Not applicable. Hydrolyzes : Not determined. Not applicable. Not applicable.
kinematic: Other information	Not applicable. Not applicable. No further relevant information available.

10 Stability and reactivity

Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions Reacts with strong oxidizing agents Conditions to avoid No further relevant information available. Incompatible materials: Ovidizing agents

Oxidizing agents Water/moisture Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen fluoride Phosphorus oxides (e.g. P2O5)

Nitrogen oxides

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11 Toxicological information
Information on toxicological effects
Acute toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance.
LD/LC50 values that are relevant for classification:
Oral LD50 >2000 mg/kg (rat)
Skin irritation or corrosion: Causes skin irritation.
Eye irritation or corrosion: Causes serious eye irritation.
Sensitization: No sensitizing effects known.
Germ cell mutagenicity: No effects known. Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.
Reproductive toxicity: No effects known.
Specific target organ system toxicity - repeated exposure: No effects known.
Specific target organ system toxicity - single exposure: May cause respiratory irritation.
Aspiration hazard: No effects known.
Subacute to chronic toxicity: No effects known.
Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.
12 Ecological information
12 Ecological information
Toxicity

Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available.



Product name: O-(7-Aza-1H-benzotriazol-1-yl)-N,N,N',N'-tetrameth	nyluronium hexafluorophosphate
Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information: General notes: Do not allow material to be released to the environment without proper governr Do not allow undiluted product or large quantities to reach ground water, water Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.	(Contd. of page 3) nental permits. course or sewage system.
13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper	disposal.
Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.	
14 Transport information	
UN-Number DOT, IMDG, IATA	UN1325
UN proper shipping name	
DOT ADR IMDG, IATA	Flammable solids, organic, n.o.s. (O-(7-Aza-1H-benzotriazol-1-yl)-N,N,N',N'- tetramethyluronium hexafluorophosphate) 1325 Flammable solids, organic, n.o.s. (O-(7-Aza-1H-benzotriazol-1-yl)-N,N,N',N'- tetramethyluronium hexafluorophosphate) FLAMMABLE SOLID, ORGANIC, N.O.S. (O-(7-Aza-1H-benzotriazol-1-yl)- N,N,N',N'-tetramethyluronium hexafluorophosphate)
Transport hazard class(es)	N,N,N',N'-tetrametnyluronium nexatluoropnosphate)
DOT Class Label ADR	4.1 Flammable solids, self-reactive substances and solid desensitised explosives 4.1
Class Label IMDG, IATA	4.1 (F1) Flammable solids, self-reactive substances and solid desensitised explosives 4.1
Class Label	4.1 Flammable solids, self-reactive substances and solid desensitised explosives 4.1
Packing group DOT, ADR, IMDG, IATA	ll -
Environmental hazards:	Not applicable.
Special precautions for user EMS Number: Stowage Category	Warning: Flammable solids, self-reactive substances and solid desensitised explosives F-A,S-G B
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Coo	-
Transport/Additional information:	
DOT Quantity limitations	On passenger aircraft/rail: 15 kg
Marine Pollutant (DOT):	On cargo aircraft only: 50 kg No
IMDG Limited quantities (LQ) Excepted quantities (EQ)	1 kg Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g
UN "Model Regulation":	UN 1325 FLAMMABLE SOLIDS, ORGANIC, N.O.S. (O-(7-AZA-1H- BENZOTRIAZOL-1-YL)-N,N,N',N'-TETRAMETHYLURONIUM HEXAFLUOROPHOSPHATE), 4.1, II
15 Regulatory information	

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms



Signal word Danger

Product name: O-(7-Aza-1H-benzotriazol-1-yl)-N,N,N',N'-tetramethyluronium hexafluorophosphate

11	(Contd. of page
Hazard statements H228 Flammable solid.	
H315 Causes skin irritation.	
H319 Causes serious eve irritation.	
H335 May cause respiratory irritation.	
Precautionary statements	x1 17
P210 Keep away from heat/sparks/open flames/hot surfaces. P261 Avoid breathing dust/fume/gas/mist/vapors/spray	No smoking.
P280 Wear protective aloves/protective clothing/eve protection	n/face protection
P305+P351+P338 If in eyes: Rinse cautiously with water for several minute	es. Remove contact lenses, if present and easy to do. Continue rinsing.
P405 Store locked up.	
P501 Dispose of contents/container in accordance with local/r National regulations	egional/national/international regulations.
This product is not listed in the U.S. Environmental Protection Agency Toxi	c Substances Control Act Chemical Substance Inventory. Use of this product is restricte
to research and development only. This product must be used by or directly	c Substances Control Act Chemical Substance Inventory. Use of this product is restricte y under the supervision of a technically qualified individual as defined by TSCA. This
product must not be used for commercial purposes or in formulations for co	ommercial purposes.
This product is not listed on the Canadian Domestic Substances List (DSL) SARA Section 313 (specific toxic chemical listings) Substance is not lis	or the Canadian Non-Domestic Substances List (INDSL).
California Proposition 65	lea.
Prop 65 - Chemicals known to cause cancer Substance is not listed.	
Prop 65 - Developmental toxicity Substance is not listed.	
Prop 65 - Developmental toxicity, female Substance is not listed.	
Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technically qualified	individuala
Other regulations, limitations and prohibitive regulations	
Substance of Verv High Concern (SVHC) according to the REACH Reg	ulations (EC) No. 1907/2006. Substance is not listed.
The conditions of restrictions according to Article 67 and Annex XVII	of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on th
market and use must be observed. Substance is not listed.	
Append VIV of the REACH Regulations (requiring Authorisation for use	1 Substance is not listed
Annex XIV of the REACH Regulations (requiring Authorisation for use, Chemical safety assessment: A Chemical Safety Assessment has not be) Substance is not listed. en carried out.
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