



Material Safety Data Sheet (MSDS)

Revision Number: 1.1		Last updated July 2009	
<u>Product and Company Identification</u>			
Product Name:		HCTU	
Manufacturer/Supplier:		AnaSpec, Inc. 34801 Campus Drive, Fremont, CA 94555 Tel: 510-791-9560 http://www.anaspec.com	
<u>Composition / Information on Ingredients</u>			
HCTU Other name(s): N,N,N',N'-Tetramethyl-O-(6-chloro-1H-benzotriazol-1-yl)uronium hexafluorophosphate Molecular Formula: C ₁₁ H ₁₅ ClF ₆ N ₅ OP Molecular Weight: 413.69 CAS Number/Name: 330645-87-9			
<u>Hazards Identification</u>			
Emergency Overview			
Inhalation:		If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.	
Ingestion:		If swallowed, wash out mouth with water provided person is conscious. Call a physician.	
Skin:		In case of contact, immediately wash skin with soap and plenty of water.	
Eyes:		In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.	
<u>Fire Fighting Measures</u>			
Extinguishing media:		Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.	
Flash Point:		Not determined	
Special protective equipment for fire-fighters:		Wear self-contained breathing apparatus for fire fighting if necessary.	

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**Accidental Release Measures****Personal precautions**

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

Environmental precautions

Do not let product enter drains.

Methods for cleaning up

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

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. Normal measures for preventive fire protection.

Storage

Keep container tightly closed in a dry and well-ventilated place, away from source of ignition or heat.

Recommended storage temperature: 2 - 8 °C

Exposure Controls / Personal Protection**Respiratory protection**

Wear appropriate gloves, protective clothing and eyewear and follow safe laboratory practices.

ACGIH/OSHA Permissible Exposure Limit Data

Not determined

Physical and Chemical Properties

<i>Form:</i>	Solid
<i>Odor:</i>	Not determined
<i>Melting Point:</i>	~185-195 °C
<i>Flash Point:</i>	Not determined

Stability and Reactivity

<i>Stability:</i>	Stable under recommended storage conditions
<i>Material to Avoid:</i>	Strong oxidizing agents
<i>Conditions to Avoid:</i>	Heat

Toxicological Information

<i>Acute Toxicity:</i>	LD50 (oral, rat): >200 mg/kg
<i>Health Hazard:</i>	Skin Contact: May cause skin irritation. May be harmful if absorbed through skin. Eye Contact: May cause eye irritation. Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled. Ingestion: May be harmful if swallowed.

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Carcinogenicity:	Not listed by NTP, IARC or OSHA.
<u>Ecological Information</u>	
Do not allow product to reach ground water, watercourse, or sewage system.	
<u>Disposal Considerations</u>	
Consult local, state or national regulations for proper disposal.	
<u>Transport Information</u>	
Proper Shipping Name: FLAMMABLE SOLID, TOXIC, ORGANIC, N.O.S. Hazard Class: 4.1 (6.1) Hazard Code: FT1 UN #: 2926 Packing Group: II	
<u>Regulations</u>	
<i>Symbol of Danger</i>	F (highly flammable)
<i>SARA 311/312:</i>	No SARA hazards
<i>DSL Status:</i>	Not listed
<i>Risk / Safety Statements:</i>	Risk Phrases: R 11 Highly flammable. R 22 Harmful if swallowed. Safety Phrases: S 9 Keep container in a well-ventilated place. S 16 Keep away from sources of ignition - No smoking. S 46 If swallowed, seek medical advice immediately and show container or label.
<u>Other Information</u>	
<i>It is not intended for food, drug, household, agricultural or cosmetic use. A technically qualified individual experienced in handling potentially hazardous chemicals must supervise its use. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Users should make independent decisions regarding completeness of the information based on all sources available. Anaspec shall not be held liable for any damage resulting from handling or from contact with the above product.</i>	