

MATERIAL SAFETY DATA SHEET

IDENTIFICATION:

Catalog Number: B-100-HCTU
Product Name: HCTU
Alternate Name: N-N-N'-N'-Tetramethyl-O-(6-chloro-1H-Benzotriazole-1-yl)uronium
Hexafluorophosphate
Chemical Family: Activator

COMPOSITION AND INFORMATION ON INGREDIENTS:

Component: HCTU
CAS Number: 330645-87-9
Composition: 100%
Empirical Formula: C₁₁H₁₅ClN₅OPF₆
Molecular Weight: 413.69

PHYSICAL DATA:

Appearance: White to Off White Powder
Solubility: Insoluble in water; soluble in most organic solvents
Melting Point: ~185-195°C

HAZARDOUS INGREDIENTS

HCTU

TOXICITY HAZARDS:

RTECS Number: No RTECS number has been assigned to this product.

HEALTH HAZARD DATA:

Acute Effects: May be harmful by ingestion, inhalation or absorption through skin

FIRST AID:

In cases of skin contact, wash with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes and wash before wearing. Consult a physician.

In cases of eye contact, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Consult a physician.

In cases of inhalation, remove to fresh air and monitor breathing. If breathing becomes difficult or signs of toxicity exist, consult a physician. If breathing stops, give artificial respiration and consult a physician.

In cases of ingestion, consult the local poison center and a PHYSICIAN.

FIRE AND EXPLOSION HAZARD DATA:

Flammability: Highly Flammable
Flash Point: Not Determined

Extinguishing Media: Dry chemical powder, carbon dioxide, polymer foam or water spray.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and full protective clothing to prevent contact with skin and eyes.

Unusual Fire and Explosive Hazards: Upon thermal decomposition, it may EMIT TOXIC GASES.

Reactivity Data: none available
Stability: Stable under normal handling procedures

Incompatibilities and Conditions to Avoid: Strong oxidizing conditions.

Hazardous Combustion or Decomposition Products: Upon thermal decomposition, it may emit toxic gases including carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂...) and halogenated compounds.

SPILL OR LEAK PROCEDURES:

Steps to be Taken if Material is Released or Spilled:
Evacuate area and ventilate. Wear protective equipment as outlined below.
Sweep up and place in suitable container. Avoid raising dust.
Hold for appropriate disposal. Wash spill site.

WASTE DISPOSAL METHOD:

Dissolve or mix with a combustible solvent and burn in a chemical incinerator equipped with an afterburner or scrubber.

Note: Observe all Federal, State and Local Laws.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Storage Condition: ≤ 25°C

Other precautions: Store in a tightly closed container in a dry, cool place. Avoid contact with material. Avoid prolonged or repeated exposure. Lab should be equipped with a safety shower and an eye wash station. Wash thoroughly after handling material. Material should only be handled by qualified, experienced professionals.

SPECIAL PROTECTIVE EQUIPMENT:

Protective Equipment: Wear suitable protective clothing, chemical resistant rubber gloves, rubber boots and chemical safety goggles.

Respiratory Protection and Ventilation: Self-contained breathing apparatus or NIOSH/MSHA approved respirator, handle in a chemical fume hood with adequate ventilation.

ADDITIONAL PRECAUTIONS AND COMMENTS:

Avoid contact with material. Avoid prolonged or repeated exposure. Wash thoroughly after handling. Material should only be handled by qualified, experienced professionals.

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