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MATERIAL SAFETY DATA SHEET

1. CHEMICAL IDENTIFICATION

CATALOG NUMBER: N-2042
CHEMICAL NAME: 2-Thio-2'-deoxycytidine-5'-Triphosphate
CHEMICAL FAMILY: Nucleoside triphosphate

2. COMPOSITION/INGREDIENTS

CAS NUMBER: NA
MOLECULAR FORMULA: $C_9H_{16}N_3O_{12}SP_3$
COMPONENTS: Single compound in distilled H₂O

3. HAZARDS IDENTIFICATION

PRECAUTIONARY STATEMENT:

May be fatal or cause blindness if swallowed. Vapor harmful. Cannot be made non-poisonous. Causes irritation. Target organs: eyes, nerves. Keep container tightly closed. Do not breathe dust.

MEDICAL CONDITIONS AGGRAVATED: NA
PRIMARY ROUTES OF ENTRY: Ingestion
PEL: NA
TLV: NA
LD50: NA
CARCINOGENICITY: NA
TOXICITY: NA
RTECS #: NA
ACUTE EFFECTS: NA
CHRONIC EFFECTS: NA

4. FIRST AID MEASURES

EYES: Immediately flush eyes with copious amounts of water for at least 15 minutes.
SKIN: Immediately wash skin with soap and copious amounts of water.
INHALATION: 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.
OTHER: Wash contaminated clothing before re-use.

5. FIRE FIGHTING MEASURES

UPPER FLAMMABLE LIMIT: NA
LOWER FLAMMABLE LIMIT: NA
UPPER EXPLOSION LIMIT: NA
LOWER EXPLOSION LIMIT: NA
FLASHPOINT: NA
AUTOIGNITION TEMPERATURE: NA

FIRE EXTINGUISHING MEDIA: Water spray, carbon dioxide, dry chemical powder, or appropriate foam.
UNUSUAL FIRE/EXPLOSION DATA: Emits toxic fumes under fire conditions.

6. **ACCIDENTAL RELEASE MEASURES**

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves. Sweep up, place in a bag, and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

7. **HANDLING AND STORAGE**

Refer to Section 8.

8. **EXPOSURE CONTROLS/EMPLOYEE PROTECTION**

Wear appropriate NIOSH/MSHA-approved respirator, chemical-resistant gloves, safety goggles, and other protective clothing. Safety shower and eye bath. Mechanical exhaust required. Wash thoroughly after handling.

9. **PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE: Clear solution
BOILING POINT: NA
MELTING POINT: NA
FREEZING POINT: NA
pH: NA
SOLUBILITY: H₂O soluble
VAPOR DENSITY: NA
VAPOR PRESSURE: NA

10. **STABILITY & REACTIVITY**

STABILITY: Unstable in base
INCOMPATIBILITY: Strong oxidizing agents
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS:
Toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides, and phosphorus oxides

11. **TOXICOLOGICAL INFORMATION**

May be fatal if swallowed. Harmful if inhaled. May be harmful if absorbed through the skin. Causes eye and skin irritation. Material is irritating to mucous membranes and upper respiratory tract. Exposure can cause: CNS depression, gastrointestinal disturbances, narcotic effect, damage to the eyes, damage to the liver, damage to the heart, damage to the kidneys. May cause convulsions. Target organs: eyes, nerves, liver, kidneys.

12. **ECOLOGICAL INFORMATION**

Data not yet available.

13. **WASTE DISPOSAL**

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.