



The information is based on our existing knowledge and shall be used only as a guide. Moreover, this shall not constitute a guarantee for any specific product features. ChemCyte is not held liable for any damage resulting from handling or from contact with the products.

## MATERIAL SAFETY DATA SHEET

### Section 1 – Chemical Product Identification

<b>Catalog Number (s):</b>	CC-3004-1, CC-3004-5, CC-3004-10
<b>Chemical Name:</b>	Alpha-thio-TTP; Thymidine-5'-O-(1-thiotriphosphate, lithium salt
<b>Formula:</b>	C <sub>10</sub> H <sub>17</sub> N <sub>2</sub> O <sub>13</sub> P <sub>3</sub> S (acid form)
<b>Chemical Family:</b>	Phosphate Modified Nucleoside Triphosphate

### Section 2 – Composition/Information on Ingredient

<b>Components:</b>	Single compound in distilled water
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### Section 3 – Hazardous Identification

<b>Potential Acute Health Effects:</b>	Toxic if ingested
<b>Potential Chronic Health Effects:</b>	Not available
<b>Carcinogenic Effects:</b>	Not available
<b>Mutagenic Effects:</b>	Not available
<b>Teratogenic Effects:</b>	Not available
<b>Developmental Toxicity:</b>	Not available

### Section 4 – First Aid Measures

<b>Eye Exposure:</b>	Check for and remove any contact lenses, and immediately flush eyes with plenty of water for about 15 minutes. Get medical attention.
<b>Skin Contact:</b>	Wash skin with soap and water. Get medical attention if irritation develops.
<b>Inhalation Exposure:</b>	If inhaled, move to fresh air, if breathing becomes difficult call for medical help.
<b>Ingestion:</b>	If any quantity of this material is swallowed, wash out mouth with water and call a physician immediately.

### Section 5 – Fire Fighting Measures

<b>Flash Point:</b>	Not available
<b>Auto-ignition Temp:</b>	Not available
<b>Flammability:</b>	Not available

**Fire Extinguishing Media:** It is suitable for water spray, carbon dioxide, dry chemical powder or appropriate foam. This material has potential to emit toxic fumes under fire conditions.

### Section 6 – Accidental Release Measures

**Methods for Clean Up:** Absorb on vermiculate or sand and place it in a closed containers or a bag to be disposed. After material is picked ventilate area and wash spills.

### Section 7 – Handling and Storage

**Handling:** Avoid inhalation and contact with eyes, skin, and clothing. Avoid long exposure of any kind.  
**Storage:** Store it at -20°C.

### Section 8 – Exposure Control/ Personal Protection

**Exposure Limit:** This product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.  
**Eye Protection:** Safety glasses or goggles  
**Skin Protection:** Protective gloves, a lab coat  
**Hygiene Measures:** Avid eating, drinking and smoking while working with products. Wash hands after handling compounds the end of the day.

### Section 9 – Physical and Chemical Properties

**Appearance:** Clear solution  
**Solubility:** Water  
**Flash Point:** Not available  
**Explosive Properties:** Not available  
**pH:** ~ 7.0

### Section 10 – Stability and Reactivity

**Stability:** Unstable in basic conditions  
**Materials to Avoid:** Strong oxidizing agents  
**Hazardous Decomposition Products:** Nature of decomposition products not known  
**Hazardous Polymerization:** Will not occur

### Section 11 – Toxicological Information

**Route of Exposure:**

**Skin Contact:** May cause skin irritations  
**Eye Contact:** May be hazardous if it is absorbed through skin  
**Inhalation:** It may cause irritation of upper respiratory tract and mucous membranes if it is inhaled.  
**Ingestion:** Harmful if swallowed.

**Signs and Symptoms of Exposure:** To the best of our knowledge toxicological properties of this compound have not thoroughly investigated.

### Section 12 – Ecological Information

No data available.

### Section 13 – Disposal Considerations

Contact appropriate agency for disposing this product. Observe all federal, state, and local environmental regulations.

### Section 14 – Transportation Information

Not regulated.

### Section 15 – Regulatory Information

**HMIS Rating:**

<b>Health Hazard:</b>	NA
<b>Fire hazard:</b>	NA
<b>Reactivity:</b>	NA

**NFPA Rating:**

<b>Health:</b>	NA
<b>Flammability:</b>	NA
<b>Reactivity:</b>	NA

### Section 16 – Other Information

**Special consideration:**

This product is for research use only.