



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

Catalog Number (s):	CC-3002-1, CC-3002-5, CC-3002-10
Chemical Name:	Alpha-thio-dCTP; 2'-deoxycytidine-5'-O-(1-thiotriphosphate, lithium salt
Formula:	C ₉ H ₁₆ N ₃ O ₁₂ P ₃ S (acid form)
Chemical Family:	Phosphate Modified Nucleoside Triphosphate

Section 2 – Composition/Information on Ingredient

Components:	Single compound in distilled water
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Section 3 – Hazardous Identification

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

Section 4 – First Aid Measures

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

Section 5 – Fire Fighting Measures

Flash Point:	Not available
Auto-ignition Temp:	Not available
Flammability:	Not available

Fire Extinguishing Media: It is suitable for water spray, carbon dioxide, dry chemical powder or appropriate foam. This material has potential to produce toxic fume.

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: Avoid 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 under basic condition
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:

Health Hazard:	NA
Fire hazard:	NA
Reactivity:	NA

NFPA Rating:

Health:	NA
Flammability:	NA
Reactivity:	NA

Section 16 – Other Information

Special consideration:

This product is for research use only.