

The information is based on our existing knowledge and shall be used only as a guide. Furthermore, 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-1009-25, CC-1009-100, CC-1009-500
<b>Chemical Name:</b>	GTP; Guanosine-5'-Triphosphate, sodium salt
<b>Formula:</b>	$C_{10}H_{13}N_5O_{14}P_3Na_3$
<b>Chemical Family:</b>	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>	It may be hazardous in case of eye contact, ingestion, inhalation, and skin contact.
<b>Potential Chronic Health Effects:</b>	It is hazardous in case of eye contacts, ingestion, and inhalation.
<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, remove to fresh air, if breathing becomes difficult call for medical help.
<b>Ingestion:</b>	If large 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
<b>Fire Extinguishing Media:</b>	It is suitable for water spray, carbon dioxide, dry chemical powder or appropriate foam.

### Section 6 – Accidental Release Measures

<b>Methods for Clean Up:</b>	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.
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### Section 7 – Handling and Storage

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

### Section 8 – Exposure Control/ Personal Protection

<b>Exposure Limit:</b>	This product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
<b>Eye Protection:</b>	Safety glasses or goggles
<b>Skin Protection:</b>	Protective gloves, a lab coat
<b>Hygiene Measures:</b>	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

<b>Appearance:</b>	Clear solution
<b>Solubility:</b>	Water
<b>Flash Point:</b>	Not available
<b>Explosive Properties:</b>	Not available
<b>pH:</b>	~ 7.0

### Section 10 – Stability and Reactivity

<b>Stability:</b>	Stable
<b>Materials to Avoid:</b>	Strong oxidizing agents
<b>Hazardous Decomposition Products:</b>	Nature of decomposition products not known
<b>Hazardous Polymerization:</b>	Will not occur

### Section 11 – Toxicological Information

**Route of Exposure:**

<b>Skin Contact:</b>	May cause skin irritations.
<b>Eye Contact:</b>	May be hazardous if it is absorbed through skin.
<b>Inhalation:</b>	It may cause irritation of upper respiratory tract and mucous membranes if it is inhaled.
<b>Ingestion:</b>	May be harmful if swallowed.
<b>Target organs:</b>	Eyes, Liver, Central nervous system, Kidneys, Heart.
<b>Signs and Symptoms of Exposure:</b>	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>	2
<b>Fire hazard:</b>	0
<b>Reactivity:</b>	1

**NFPA Rating:**

<b>Health:</b>	2
<b>Flammability:</b>	0
<b>Reactivity:</b>	1

### Section 16 – Other Information

**Special consideration:**

This product is for research use only.