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## **MATERIAL SAFETY DATA SHEET**

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### **1. CHEMICAL IDENTIFICATION**

**CHEMICAL NAME:** 2'-O-Methyladenosine-5'-triphosphate  
**CHEMICAL FAMILY:** Nucleoside triphosphate  
**MOLECULAR FORMULA:**  $C_{11}H_{14}N_5O_{13}P_3Li_4$   
**DATE PREPARED:** August 8, 1999

### **2. COMPOSITION/INGREDIENTS**

**CAS NUMBER:** \_\_\_\_\_  
**COMPONENTS:** Single compound in distilled H<sub>2</sub>O

### **3. PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE:** Clear solution  
**PURITY:** 94.3%  
**BOILING POINT:** NA  
**MELTING POINT:** NA  
**FREEZING POINT:** NA  
**pH:** NA  
**SOLUBILITY:** H<sub>2</sub>O soluble  
**VAPOR DENSITY:** NA  
**VAPOR PRESSURE:** NA

### **4. 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

### **5. 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.

### **6. 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

<b>LD50:</b>	NA
<b>CARCINOGENICITY:</b>	NA
<b>TOXICITY:</b>	NA
<b>RTECS #:</b>	NA
<b>ACUTE EFFECTS:</b>	NA
<b>CHRONIC EFFECTS:</b>	NA

**7. FIRST AID MEASURES**

<b>EYES:</b>	Immediately flush eyes with copious amounts of water for at least 15 minutes.
<b>SKIN:</b>	Immediately wash skin with soap and copious amounts of water.
<b>INHALATION:</b>	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
<b>INGESTION:</b>	If swallowed, wash out mouth with water provided person is conscious. Call a physician.
<b>OTHER:</b>	Wash contaminated clothing before re-use.

**8. FIRE FIGHTING MEASURES**

<b>UPPER FLAMMAGLE LIMIT:</b>	NA
<b>LOWER FLAMMABLE LIMIT:</b>	NA
<b>UPPER EXPLOSION LIMIT:</b>	NA
<b>LOWER EXPLOSION LIMIT:</b>	NA
<b>FLASHPOINT:</b>	NA
<b>AUTOIGNITION TEMPERATURE:</b>	NA
<b>FIRE EXTINGUISHING MEDIA:</b>	Water spray, carbon dioxide, dry chemical powder, or appropriate foam.
<b>UNUSUAL FIRE/EXPLOSION DATA:</b>	Emits toxic fumes under fire conditions.

**9. 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.

**10. HANDLING AND STORAGE**

Refer to Section 5.

**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. 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.

TriLink BioTechnologies, Inc. believes the above information to be accurate, but not necessarily all-inclusive, and thus should only be used as a guide in the handling and use of this material. The data in this MSDS relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. TriLink BioTechnologies, Inc. shall not take responsibility for any damage resulting from handling or from contact with the above product. The information in this material safety data sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder 29 CFR § 1910.1200.