

**MATERIAL SAFETY DATA SHEET****DMT-2'O-TBDMS-rGuanosine (tac)  $\beta$ -Cyanoethylphosphoramidite****Section I - Chemical Products & Company Identification**

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For emergency source information (Europe) contact: Chemtrec 703 527 3887 (International)

Trade Names/Synonyms: DMT-2'O-TBDMS-rG(tac) Amidite      Chemical Family: Modified Nucleoside

**Section 2 - Composition/Information On Ingredients - % by Weight**

Active Component:	Chemical Name:	Composition (w/w) %:	CAS Number:	RTECS Number:
DMT-2'O-TBDMS-rG(tac) Amidite	DMT-2'O-TBDMS-rG(tac) Amidite	>99%	149989-68-4	None Available

**For Research and Development Purposes Only.**

**Section 3 - Hazards Identification**

**NFPA Ratings (Scale 0-4):** Not available.

**Emergency Overview:** Harmful by inhalation, in contact with skin and if swallowed. Irritating to the eyes, respiratory system and skin. The toxicological properties of this material have not been thoroughly investigated. Use prudent laboratory practices for handling chemical substances of unknown toxicity.

**Potential Health Effects:**

<b>Skin Contact:</b>	Short Term Exposure:	Possible Irritant
	Long Term Exposure:	No information available
<b>Eye Contact:</b>	Short Term Exposure:	Possible Irritant
	Long Term Exposure:	No information available
<b>Ingestion:</b>	Short Term Exposure:	Possible Irritant
	Long Term Exposure:	No information available
<b>Inhalation:</b>	Short Term Exposure:	Possible Irritant
	Long Term Exposure:	No information available
<b>Injection:</b>	Short Term Exposure:	No information available
	Long Term Exposure:	No information available

**CARCINOGEN/REPRODUCTIVE TOXIN STATUS:**

**OSHA:** Not Listed  
**NTP:** Not Listed  
**IARC:** Not Listed

**Section 4: First Aid Measures**

**Skin Contact:** Remove contaminated clothing. Flush affected area with water and then wash with soap or mild detergent and water. Observe for signs of irritation. If irritation is present, get medical

attention.

**Eye Contact:** Wash eyes with large amounts of water or normal saline for at least 15 minutes. Observe for signs of irritation. If irritation is present, get medical attention.

**Ingestion:** Get medical attention.

**Inhalation:** Remove from exposure area to fresh air immediately. Get medical attention immediately.

**Injection:** If accidentally injected, get medical attention.

**Note to Physician:** There is no specific antidote. Treat symptomatically and supportively.

### Section 5: Fire Fighting Measures

**FIRE AND EXPLOSION HAZARD:** Not available.

### Section 6: Accidental Release Measures

**OCCUPATIONAL SPILL:** Wear appropriate protective clothing and chemically compatible gloves. Place spillage in appropriate container for waste disposal. Wash contaminated clothing before reuse.

**REPORTABLE QUANTITY (RQ):** Not Applicable

### Section 7 - Handling and Storage

Observe all federal, state and local regulations. Do not breathe dusts. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep tightly closed. Store in cool dry place. Use prudent laboratory practices for handling and storage of chemical substances of unknown toxicity.

### Section 8 - Exposure Controls/Personal Protection

**Exposure Controls** Use in laboratory hood or other ventilated device. Occupational exposure limits for this substance has not been established by OSHA, ACGIH, or NIOSH. Use prudent laboratory practices for handling chemical substances of unknown toxicity.

**Eye Protection:** Employees must wear splash-proof or dust-resistant safety goggles to prevent eye contact with this substance.

**Clothing:** Employee must wear appropriate protective clothing (laboratory coat with long sleeves) and equipment to prevent skin contact with this material.

**Gloves:** Employee must wear appropriate protective gloves to prevent contact with this material.

### Section 9 - Physical and Chemical Properties

**DESCRIPTION:** Odorless, white to off white powder

**pH:** Not water soluble, suspensions in water show a pH in the neutral range.

### Section 10 - Stability and Reactivity

**STABILITY:** Stable under normal temperatures and pressure.

**REACTIVITY:** Strong oxidizers

**CONDITIONS TO AVOID:** Strong oxidizers

**INCOMPATIBILITIES:** Strong oxidizers

**DECOMPOSITION PRODUCTS:** May include toxic oxides of carbon and nitrogen.

**POLYMERIZATION:** Not available

### Section 11 - Toxicology Information

<b>TOXICITY:</b>	The toxicological properties of this material have not been investigated. For research and development purposes only.
<b>CARCINOGEN STATUS:</b>	No information available
<b>LOCAL EFFECTS:</b>	Irritant.
<b>ACUTE TOXICITY LEVEL:</b>	No information available
<b>TARGET EFFECTS:</b>	No information available
<b>AT INCREASED RISK FROM EXPOSURE:</b>	No information available

### Section 12 - Ecological Information

<b>ENVIRONMENTAL IMPACT RATING (0-4):</b>	No data available.
<b>ACUTE AQUATIC TOXICITY:</b>	No data available.
<b>DEGRADABILITY:</b>	No data available.
<b>LOG BIOCONCENTRATION FACTOR (BCF):</b>	No data available.

### Section 13 - Disposal Information

Observed all Federal, State, and Local Regulations.

### Section 14 - Transportation Information

Ship as a non-regulated material. No transportation restrictions apply. The acute toxicity profile does not warrant shipment as a hazardous material (DOT) or a dangerous good (IATA).

### Section 15 - Regulatory Information

	DMT-2'O-TBDMS-rG(tac) Amidite
<b>Europe:</b>	No
<b>EINECS/ELINCS:</b>	No
<b>EC INDEX NO.</b>	No
<b>Canada:</b>	No
<b>DSL/NDSL:</b>	No
<b>WHIMIS</b>	No
<b>United States:</b>	No
<b>TSCA STATUS:</b>	No
<b>CERCLA SECTION 103 (40 CFR 302.4):</b>	No
<b>SARA SECTION 302 (40 CFR 355.30):</b>	No
<b>SARA SECTION 304 (40 CFR 355.40):</b>	No
<b>SARA SECTION 313 (40 CFR 372.65):</b>	No
<b>OSHA PROCESS SAFETY (29 CFR 1910.119):</b>	No
<b>CALIFORNIA PROPOSITION 65</b>	No
<b>SARA ACUTE HAZARD (40 CFR 370.21)</b>	No
<b>CHRONIC HAZARD:</b>	No
<b>FIRE HAZARD:</b>	No
<b>REACTIVITY HAZARD:</b>	No
<b>SUDDEN RELEASE HAZARD:</b>	No

### Section 16 - Other

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