

MATERIAL SAFETY DATA SHEET

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: **2'-O-Methyladenosine**
 Catalog Number: **CGIMFB-2600**
 CAS No: 2140-79-6
 Synonym/Trade Name: 2'-O-Methyladenosine
 Manufacturer or supplier's ChemGenes India Pvt. Ltd
 207, Regency Plaza, 5-Park Road
 Lucknow-226 001,U.P, India,
 Ph: +91 86874 21036,
 Email: info@chemgenesindia.com

SECTION 2. HAZARDS IDENTIFICATION

- 2.1 Classification of the Substance or Mixture:
 2.2 Label Elements:

GHS Signal Word: None

GHS Hazard Phrases:

Based on evaluation of currently available data this substance or mixture is not classifiable according to GHS.

GHS Precaution Phrases: No phrases apply.

GHS Response Phrases: No phrases apply.

GHS Storage and Disposal Phrases:

Please refer to Section 7 for Storage and Section 13 for Disposal information.

2.3 Adverse Human Health Material may be irritating to the mucous membranes and upper respiratory tract.

Effects and Symptoms: May be harmful by inhalation, ingestion, or skin absorption. May cause eye, skin, or respiratory system irritation.

To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| CAS # / RTECS # | Hazardous Components (Chemical Name)/ REACH Registration No. | Concentration | EC No./EC Index No | GHS Classification |
|--------------------|--|---------------|-----------------------|-----------------------|
| 2140-79-6 | 2'-O-Methyladenosine | 100.0 % | NA NA | No data available. |

SECTION 4. FIRST AID MEASURES

4.1 Description of First Aid Measures:

- In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.
- In Case of Skin Contact: Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.
- In Case of Eye Contact: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.
- In Case of Ingestion: Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.

SECTION 5. FIRE FIGHTING MEASURES

- 5.1 Suitable Extinguishing Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.
Media: Use water spray to cool fire-exposed containers.
Unsuitable Extinguishing A solid water stream may be inefficient.
Media:
- 5.2 Flammable Properties and Hazards: No data available.
Flash Pt: No data.
Explosive Limits: LEL: No data. UEL: No data.
Autoignition Pt: No data.
- 5.3 Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- 6.1 Protective Precautions, Avoid raising and breathing dust, and provide adequate ventilation.
Protective Equipment and As conditions warrant, wear a NIOSH approved self-breathing apparatus, or respirator,
Emergency Procedures: and appropriate personal protection (rubber boots, goggles, and heavy rubber gloves).
- 6.2 Environmental Take steps to avoid release into the environment, if safe to do so.
Precautions:
- 6.3 Methods and Material For Contain spill and collect, as appropriate.

Containment and Cleaning Transfer to a chemical waste container for disposal with local regulations.

Up:

SECTION 7. HANDLING AND STORAGE

- 7.1 Precautions To Be Taken in Handling: Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid prolonged or repeated exposure.
- 7.2 Precautions To Be Taken in Storing: Keep container tightly closed. Store in accordance with information listed on the product insert.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Exposure Parameters: Multi-region format
- 8.2 Exposure Controls:
- 8.2.1 Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne (Ventilation etc.): levels below recommended exposure limits.
- 8.2.2 Personal protection equipment:
- Eye Protection: Safety glasses
- Protective Gloves: Compatible chemical-resistant gloves
- Other Protective Clothing: Lab coat
- Respiratory Equipment (Specify Type): NIOSH approved respirator, as conditions warrant.
- Work/Hygienic/Maintenance Practices:
- Do not take internally.
- Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower.
- Wash thoroughly after handling.
- No data available.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

Physical States: Gas Liquid Solid

Appearance and Odor: A crystalline solid

pH: No data.

Melting Point: No data.

Boiling Point: No data.

Flash Pt: No data.

Evaporation Rate: No data.

Flammability (solid, gas): No data available.

Explosive Limits: LEL: No data. UEL: No data.

Vapor Pressure (vs. Air or mm Hg): No data.

Vapor Density (vs. Air = 1): No data.

Specific Gravity (Water = 1): No data.

Solubility in Water: No data.

Solubility Notes: ~10 mg/ml in PBS

(pH 7.2); ~20 mg/ml in DMSO;
~5 mg/ml in DMF;
Octanol/Water Partition Coefficient: No data.
Autoignition Pt: No data.
Decomposition Temperature: No data.
Viscosity: No data.

9.2 Other Information

Percent Volatile: No data.
Molecular Formula & Weight: C₁₁H₁₅N₅O₄ 281.3

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity: No data available.
10.2 Stability: Unstable [] Stable [X]
10.3 Stability Note(s): Stable if stored in accordance with information listed on the product insert.
Polymerization: Will occur [] Will not occur [X]
10.4 Conditions To Avoid: No data available.
10.5 Incompatibility - Materials strong oxidizing agents To Avoid:
10.6 Hazardous carbon dioxide
Decomposition or carbon monoxide
By-products: nitrogen oxides

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on The toxicological effects of this product have not been thoroughly studied.

Toxicological Effects:

| CAS # | Hazardous Components (Chemical Name) | NTP | IARC | ACGIH | OSHA |
|-----------|--------------------------------------|------|------|-------|------|
| 2140-79-6 | 2'-O-Methyladenosine | n.a. | n.a. | n.a. | n.a. |
| | | | | | |

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity: Avoid release into the environment.
Runoff from fire control or dilution water may cause pollution.
12.2 Persistence and Degradability: No data available.
12.3 Bioaccumulative Potential: No data available.
12.4 Mobility in Soil: No data available.
12.5 Results of PBT and vPvB assessment: No data available.
12.6 Other adverse effects: No data available.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.

SECTION 14. TRANSPORT INFORMATION

14.1 LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Not dangerous goods.

DOT Hazard Class:

UN/NA Number:

14.1 LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Not dangerous goods.

UN Number:

Hazard Class:

14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not dangerous goods.

Additional Transport Information: Transport in accordance with local, state, and federal regulations.

Information:

SECTION 15. REGULATORY INFORMATION

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

| CAS # | Hazardous Components (Chemical Name) | S. 302 (EHS) | S. 304 RQ | S. 313 (TRI) |
|-----------|--------------------------------------|---|-----------|--------------|
| 2140-79-6 | 2'-O-Methyladenosine | No | No | No |
| CAS # | Hazardous Components (Chemical Name) | Other US EPA or State Lists | | |
| 2140-79-6 | 2'-O-Methyladenosine | CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No | | |

Regulatory Information: This MSDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)

Statement: No.1272/2008.

SECTION 16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. ChemGenes India Pvt. Ltd shall not be held liable for any damage resulting from handling or from contact with the above product.

-----END OF MSDS-----