

SAFETY DATA SHEET

Innovassynth Technologies (I) Ltd; TEL # +91-2192-260-100

SDS Version No. 01

Creation Date: June 2022; Next Review Date: May 2025

PRODUCT : 5'ODMT-2'OMe-N-iBu Guanosine -3'OCEPA

Section 1 - Identification

CHEMICAL NAME: 5'-O-(4, 4'-Dimethoxytrityl)-N²-Isobutyryl-2'-O-Methyl Guanosine- 3'-[(2-Cyanoethyl)-(N, N-Di Isopropyl)] Phosphoramidite.

SYNONYM: 5'-ODMT-2'-OMe-N-iBu Guanosine Amidite

CAS NO: [150780-67-9]

Details of the supplier of the safety data sheet:

Company Identification: Innovassynth Technologies (I) Ltd.

Address of Supplier: Old Mumbai-Pune Road, Khopoli, Dist. Raigad,

Pin - 410203 Maharashtra (India).

Telephone: +91-2192-260-100

E-mail: itil@innovassynth.com

Website: <http://www.innovassynth.com>

Office hours: 9 AM to 6 PM

Section 2 - Hazard(s) Identification

The product is an odorless powder. May cause irritation in case of direct contact with skin, eyes, tissue and mucous membrane. Presumed harmful if ingested. Hygroscopic (absorbs moisture from the air). In an emergency situation, the affected parties should avoid exposure by inhalation and skin and eye contact in order to minimize potential hazards.

Label precautionary statements

Irritant-Irritating to eyes, respiratory system and skin.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing

Potential health effects

EYE: May cause eye irritation and or serious injury to eyes. Any previously existing eye ailment may be aggravated by exposure.

SKIN: May cause skin irritation. Any previously existing skin ailment may be aggravated by exposure. Systemic effects of skin absorption are unknown.

INGESTION: May cause irritation of the digestive tract. Expected to be a low. Ingestion hazard.

INHALATION: May cause irritation to mucous membrane and respiratory tract. Any previously existing pulmonary (breathing) ailment such as bronchitis or asthma may be aggravated by exposure. The toxicological properties of this substance have not been fully investigated.

CHRONIC: Adverse reproductive effects have been reported in animals.

CARCINOGENICITY: No Information available.

MUTAGENICITY: No Information available

TERATOGENICITY: No Information available.

The information within this section reflects health information we have found in the literature to date. Where information is limited or unknown, care should be exercised since the hazards have not been thoroughly investigated.

Label elements



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Signal Word Warning

Hazard statements:

H315 - Causes skin irritation

H319 - Causes serious eye irritation

Precautionary statements:

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P305 + P351 + P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Section 3 - Composition, Information on Ingredients

ESSENTIALLY 100%: 5'-ODMT-N²-ibu-2'-OMe Guanosine -3'-OCEPA

MOLECULAR FORM: C₄₅H₅₆N₇O₉P

MOLECULAR WEIGHT: 869.94

Section 4 - First Aid Measures

Description of first aid measures:

EYES: In case of contact, immediately flush eyes with copious amount of water for at least 15 minutes.

SKIN: In case of contact, immediately wash skin with soap and copious amount of water.

INHALATION: If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

INGESTION: If swallowed, wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical aid immediately. Call a physician. Wash contaminated clothing before reuse.

NOTES TO PHYSICIAN: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

Extinguishing media

General information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, msha/niosh (approved or equivalent), and full protective gear to prevent contact with fumes.

Extinguishing media: Water spray, carbon dioxide, dry chemical powder or appropriate foam.

Special firefighting procedures: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual fire and explosions hazards: Emits toxic fumes of carbon dioxide, carbon mono oxide and nitrogen oxides under fire conditions.

Flash point: Not available.

Auto ignition temperature: Not available.

Explosion limits:

Lower: Not available.

Upper: Not available.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures:

General information: Evacuate area. Confine the release area to those persons who are properly protected and qualified to remediate the incident. Use proper personal protective equipment viz; respirator, chemical safety goggles, rubber boots and heavy rubber gloves.

SPILLS/LEAKS: Clean up spills immediately, observing precautions in the protective equipment section. 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.

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Section 7 - Handling and Storage

Precautions for safe handling

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

Storage: Store at -20°C temperature, do not expose moisture/sunlight.

Section 8 - Exposure Controls, Personal Protection

Control parameters

Ventilation: Local exhaust ventilation for point of generation, general exhaust ventilation for work area.

Respiratory protection: Air purifying respirator equipped with organic vapor cartridge or wear appropriate niosh / msha-approved respirator,

Eyes: Chemical safety goggles or face mask.

Skin protection: Chemical protective suit.

Hand protection: Compatible resistant gloves.

Exposure guideline: No information is available.

Section 9 - Physical and Chemical Properties

Information on basic physical and chemical properties:

Physical state: Solid

Appearance: White to off white solid

Odor: Odorless

pH: Not available.

Vapor pressure: Not available.

Vapor density: Not available

Evaporation rate: Not available

Viscosity: Not available.

Boiling point: Not available.

Freezing/melting point: 119.0 to 130.0°C.

Decomposition temperature: Not available.

Solubility (water): Insoluble.

Specific gravity/ density: Not available.

Section 10 - Stability and Reactivity

Chemical stability: Stable under normal temperatures and pressures.

Conditions to avoid: Incompatible materials, dust generation, excess heat, strong oxidants.

Incompatibilities with other materials: Oxidizing agents.

Hazardous decomposition products: Nitrogen oxides, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.

Hazardous polymerization: Has not been reported

Section 11 - Toxicological Information

Intraperitoneal mouse Id50: 500 mg / Kg

Intravenous mouse Id50: Not available

See registry of toxic effects of chemical substances for list of toxicology citations.

No information is available.

Carcinogenicity: No information available.

Mutagenicity: No information available.

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Teratogenicity: No information available

Neurotoxicity: No information found.

Section 12 - Ecological Information

Toxicity Ecotoxicity effects: Do not empty into drains.

Persistence and degradability: No information available

Bioaccumulative potential: No information available

Mobility in soil: No information available

Results of PBT and vPvB Assessment: No data available for assessment.

Endocrine disrupting properties Endocrine Disruptor Information: This product does not contain any known or suspected endocrine disruptors

Other adverse effects Persistent Organic Pollutant: This product does not contain any known or suspected substance

Ozone Depletion Potential: This product does not contain any known or suspected substance.

Section 13 - Disposal Considerations

Waste treatment methods

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an after burner and scrubber. Observe all federal, state and local environmental regulations.

RCRA P-SERIES: None listed.

RCRA U-SERIES: None listed.

Section 14 - Transport Information

	US DOT	Canada TDG
Road	Not Regulated as a Hazardous Material	No information available.
Air (IATA)	Not regulated	
Sea (IMDG)	Not regulated	

Section 15 - Regulatory Information

Safety, health, and environmental regulations/legislation specific for the substance or mixture

US FEDERAL

Health & Safety reporting list

Not on the health & safety reporting list.

Chemical test rules

Not under a chemical test rule.

Clean air act:

This material does not contain any hazardous air pollutants.

Clean water act:

This product is not listed as hazardous substances under the cwa.

OSHA:

This product is not considered hazardous by OSHA.

European / International regulations

European labeling in accordance with EC directives

Hazard symbols: Not available.

Risk phrases and Safety phrases:

R36 / 37 / 38 irritating to eyes, respiratory system and skin. Avoid contact with skin and eyes.



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S37 / 39 wear suitable protective clothing and suitable gloves.

S 45 in case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 26 after contact with skin, wash immediately with plenty of water

Section 16 - Additional Information

The information above is believed to be accurate and represents the best information currently available to us but does not purport to be all inclusive and shall be used as a guide. However, **Innovassynth Technologies (India) Limited** shall not be held liable for any damage resulting from handling or from contact with the above product. This material is intended for research and development purposes only and is not intended for household, medicinal or cosmetic use. It is strictly for laboratory evaluation only and not intended for any commercial use. Users should make their own investigations to determine the suitability of the information for their particular purposes. in no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.

-END OF SAFETY DATA SHEET-