

MATERIAL SAFETY DATA SHEET

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Product Name: **2'-Fluoro-Deoxy Guanosine (N-Ibu)-3'-CEP**
Catalog Number: **CGIGUP-9153**
Chemical Name: 5'-Dimethoxytrityl-N-Isobutyryl-2'-fluoro-3'-[(2-cyanoethyl)- (N,N-diisopropyl)]-phosphoramidite-deoxyguanosine
Synonym/Trade Name: DMT-2'F-dG(ib)Amidite, 2'-Deoxy-5'-O-DMT-2'-fluoro-N2-isobutyrylguanosine 3'-CE phosphoramidite
Molecular Formula:

1.2 Relevant identified users of the substance or mixture and uses advised against Recommended Use:

Laboratory chemicals Uses advised against: No information available

1.3 Details of the supplier of the safety data sheet

Company: ChemGenes India Pvt. Ltd.,
207, Regency Plaza,
5-A Park Road, Lucknow-226001
Email: info@chemgenesindia.com

1.4 Emergency telephone number

ChemGenes India Pvt. Ltd. +91-8687421036

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

CLP Classification - Regulation (EC) No 1272/2008

Health hazards

Based on available data, the classification criteria are not met

Environmental hazards

Based on available data, the classification criteria are not met

2.2 Label Elements

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.3 Other Hazards

Hazards not otherwise classified (HNOC) or not covered by GHS- None

SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

Component	2'-Fluoro-Deoxy Guanosine (N-Ibu)-3'-CEP
CAS#	144089-97-4
M.W.	857.91 g/mol

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation Remove from exposure immediately. Use a bag valve mask or similar device to perform artificial respiration if needed. Get medical attention.

Skin Contact Remove contaminated clothing, jewellery and shoes immediately. Wash with soap or mild detergent and large amounts of water until no evidence of chemicals remains (at least 15-20 minutes). Get medical attention immediately.

Eye Contact Wash eyes immediately with large amounts of water (or normal saline), occasionally lifting upper and lower lids, until no evidence of chemical remains. Get medical attention immediately.

Ingestion If vomiting occurs, keep head lower than hips to help prevent aspiration. Get medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed
No information available

4.3 Indication of any immediate medical attention and special treatment needed
Notes to Physician Treat symptomatically

SECTION 5. FIRE FIGHTING MEASURES

5.1 Extinguishing Media: Carbon dioxide, regular dry chemical, regular foam, water.

5.2 Fire and Explosion Hazards:
Slight fire hazard. Dust/air mixtures may ignite or explode (although exact conditions are unknown).

5.3 Fire Fighting: Move container from fire area if it can be done without risk. Do not scatter spilled material with high pressure water streams. Dike for later disposal. Use extinguishing agents appropriate for surrounding fire. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

Flash Point: N/A

Flammability Class (OSHA): N/A

SECTION 6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation
- 6.2 Environmental precautions
See Section 12 for additional ecological information
- 6.3 Method and material for containment and cleaning up
Collect spilled material in appropriate container for disposal. Keep out of water supplies and sewers. Keep unnecessary people away, isolate hazard area and deny entry
- 6.4 Reference to other sections
Refer to protective measures listed in section 8 and 13

SECTION 7. HANDLING STORAGE

- 7.1 Precautions for safe handling
Ensure adequate ventilation
- 7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place Store and handle in accordance with all current regulations and standards. Store in a cool, dry place (-20 C).
Keep separated from incompatible substances.
- 7.3 Specific end use(s)
Use in laboratories

SECTION 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

- 8.1 Control parameters

Exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region-specific regularity bodies.

Biological limit values:

This product, as supplied, does not contain any hazardous materials with biological limits established by the region-specific regularity bodies.

Monitoring methods

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

Derived No Effect Level (DNEL)

No information available

Predicted No Effect Concentration (PNEC):

No information available

8.2 Exposure controls

Ventilation

Provide local exhaust or process enclosure ventilation system.

Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. Ensure compliance with applicable exposure limits.

Eye Protection

Wear splash resistant safety goggles with a face shield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Clothing

Wear appropriate chemical resistant clothing.

Gloves

Wear appropriate chemical resistant gloves.

Respirator

Under conditions of frequent use or heavy exposure, respiratory protection may be needed. Respiratory protection is ranked in order from minimum to maximum. Consider warning properties before use.

Any supplied-air respirator with a full face piece that is operated in a pressure-demand or other positive-pressure mode.

Any self-contained breathing apparatus that has a full face piece and is operated in a pressure-demand or other positive-pressure mode.

For Unknown Concentrations of Immediately Dangerous to Life of Health-

Any supplied-air respirator with full face piece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply. Any self-contained breathing apparatus with a full face piece.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Description	Solid (Powder)
Color	White to Off-White free flowing powder.
Odor	None
Freezing Point	No information available
Vapor Pressure	No information available
Vapor Density	No information available
% Volatile by Volume	No information available
Specific Gravity	No information available
Water Solubility	No information available
Melting Point	No information available

Solubility	No information available
PH	No information available
Volatility	No information available
Odor Threshold	No information available
Evaporation Rate	No information available
Coefficient of	
Water/Oil Distribution	No information available

SECTION 10. STABILITY AND REACTIVITY

10.1	Reactivity	Stable at normal temperatures and pressure.
10.2	Chemical stability	Stable under normal conditions.
10.3	Possibility of hazardous reactions	
	Hazardous Polymerization	No information available
	Hazardous Reactions	No information available
10.4	Conditions to Avoid	No information available
10.5	Incompatibilities	No information available
10.6	Hazardous Decomposition	
	None under normal use conditions.	

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Product information No acute toxicity information is available for this product

(a)	acute toxicity	
	Oral	No data available
	Dermal	No data available
	Inhalation	No data available
(b)	skin corrosion/irritation	No data available
(c)	serious eye damage/irritation	No data available
(d)	respiratory or skin sensitization	
	Respiratory	No data available
	Skin	No data available
(e)	germ cell mutagenicity	No data available
(f)	carcinogenicity	No data available
	There are no known carcinogenic chemicals in this product	
(g)	reproductive toxicity	No data available
(h)	STOT-single exposure	No data available
(i)	STOT-repeated exposure	No data available
	Target Organs	No information available
(j)	aspiration hazard	No data available
	Symptoms / effect, both acute and delayed	No data available

SECTION 12. ECOLOGICAL INFORMATION

12.1	Toxicity	
	Ecotoxicity effects	Contains no substances known to be hazardous to the

- environment of that are not degradable in waste water treatment plants.
- 12.2 Persistence and degradability; No information available
- 12.3 Bio accumulative potential; No information available
- 12.4 Mobility in soil; No information available
- 12.5 Results of PBT and v PvB assessment; No information available
- 12.6 Other adverse effects
- Endocrine Disruptor Information
This product does not contain any known or suspected endocrine disruptors
- 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 N/A

SECTION 13.DISPOSAL CONSIDERATIONS

- 13.1 Waste treatment methods
Dispose in accordance with all applicable regulations.

SECTION 14.TRANSPORT INFORMATION

- IMDG/IMO Not regulated
- ADR Not regulated
- IATA Not regulated
- Environmental hazards No hazards identified
- Special precautions for use No special precautions required
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC
- Code IMDG/IMO Not applicable,
packaged goods No classification assigned.

SECTION 15.REGULATORY INFORMATION

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006
- 15.2 Chemical Safety assessment
A chemical safety assessment/report (CSA/CSR) has not been conducted.

SECTION 16.OTHER INFORMATION

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006
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 Safety Data Sheet-----