

MATERIAL SAFETY DATA SHEET

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

Product information

Product Name	5'-O-DMTr-Cytidine(N-Ac)
Synonyms	5'-O-(4,4'-Dimethoxytrityl)-N4-acetyl-2'-cytidine; N4-Acetyl-5'-O-DMT-cytidine
Catalog Number	CGIPM-2114
Recommended use	Laboratory Use only

Manufacturer or supplier's name and address

ChemGenes India Pvt. Ltd
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SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Acute toxicity, oral (Category 4)	H302
Skin corrosion/irritation (Category 2)	H315
Serious eye damage/eye irritation (Category 2A)	H319
No Resource File	

Label Elements

GHS07 Exclamation mark



Pictogram

Signal word Warning

Hazard statement(s)

Harmful if swallowed	H302
Causes skin irritation	H315
Causes serious eye irritation	H319

Precautionary statement(s)

261

Avoid breathing dust/ fume/ gas/ mist/
vapours /spray.

If effects eyes:

Rinse cautiously with water for several
minutes. Remove contact lenses, if present
and easy to do.

P305+P351+P338

Continue rinsing.

There are other cautious statements throughout the safety data sheet.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance related information

Substance Name

5'-O-DMTr-Cytidine (N-Ac)

Synonyms

5'-O-(4,4'-Dimethoxytrityl)-N4-acetyl-2'-cytidine;
N4-Acetyl-5'-O-DMT-cytidine

CAS No.

121058-82-0

Formula

C32H33N3O8

Molecular Weight

587.62

SECTION 4. FIRST AID MEASURES

General advice

Consult a physician. Move out of dangerous area.

In case inhaled

If breathed in, move person into fresh air. If not breathing, give artificial
respiration.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If case if swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

Most important symptoms and effects, both acute and delayed.

The most important known symptoms and effects are described in the labeling (see section 11)

Indication of any immediate medical attention and special treatment needed.

No data available

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media

Suitable foam

Dry extinguishing powder

Carbon dioxide

Hazards arising from the substance or mixture

Wear a self-contained breathing apparatus and chemical protective clothing.

Fire-Fighting/Further Advice

Wear a self-contained breathing apparatus for s for firefighting. Do not inhale explosion and combustion gases. Collect contaminated fire extinguishing water separately.

Further information

No data available

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Provide adequate ventilation. Avoid breathing dust. Do not attempt to take action without suitable protective clothing.

Environmental Precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Ensure all waste water is collected and treated via a waste water treatment plant.

Methods for Cleaning or Taking Up

Data Not Available

Further Accidental Release Measures

Collect in closed and suitable containers for disposal. Clear contaminated areas thoroughly. Ventilate affected area.

SECTION 7. HANDLING AND STORAGE

Handling

Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Avoid prolonged or repeated exposure. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling.

Storage

Storage temperature

Store At 2°C - 8°C

Storage Requirements

Keep away from incompatible substances. Store in a cool, dry, well-ventilated area. Keep container tightly closed when not in use.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Ingredients with workplace control parameters

Exposure controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands clean to maintain hygiene.

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection.

Use gloves. Gloves must be inspected before being used. To avoid skin contact with this product, remove gloves properly (without touching the outer surface). After using contaminated gloves, dispose of them in line with applicable legislation and good laboratory practices. Hands should be washed and thoroughly dried.

Body Protection

Choose body protection based on the type, concentration, and volume of toxic substances, as well as the specific workplace. When selecting protective equipment

for a workplace, consider the concentration and number of hazardous substances present.

Respiratory Protection

Respiratory protection is not needed. Dust masks of type N95 (US) or P1 (EN 143) are recommended for protection against nuisance levels of dust. Use respirators and components that have been tested and approved under appropriate government standards, such as NIOSH (US) or CEN (EU).

Control of environmental exposure.
Do not let the product enter drains.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Powder
Appearance	White
Molar Mass	587,63

SECTION 10. STABILITY AND REACTIVITY

Reactivity	No data available
Chemical stability	No data available
Hazardous reactions	No data available
Conditions to avoid	Incompatible materials
Incompatible materials	Strong oxidizing agents, Strong bases/acids

Hazardous decomposition products
Nitrogen oxides (NO_x)
Carbon dioxide (CO₂)
Carbon monoxide

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity	No data available
Oral	No data available
Inhalation	No data available
Dermal	No data available
Skin corrosion/irritation	No data available
Eye damage/irritation	No data available
Respiratory/skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available

Reproductive toxicity No data available
Specific target organ
toxicity - single exposure No data available
Specific target organ toxicity
- repeated exposure No data available
Aspiration hazard No data available
Other Relevant Toxicity Information
We are not aware of any toxicology data.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity No data available
Persistence and degradability No data available
Bioaccumulative potential No data available
Mobility in soil No data available
Results of PBT and
vPvB assessment PBT/vPvB assessment not available as
chemical safety assessment not required/not
conducted
Other adverse effects No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods
Product Dissolve or mix the material with a
combustible solvent and burn in a chemical
incinerator equipped with an afterburner and
Exhaust air. Dispose of waste according to
laws applicable.
Contaminated packaging No data available

SECTION 14. TRANSPORT INFORMATION

UN number
ADR/RID: - IMDG: - IATA: -
UN proper shipping name
ADR/RID Not dangerous goods
IMDG Not dangerous goods
IATA Not dangerous goods
Transport hazard class(es)
ADR/RID: - IMDG: - IATA: -

Packaging group

ADR/RID: -

IMDG: -

IATA: -

Environmental hazards

ADR/RID:

IMDG: -

IATA:

Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental and national regulations

The product is not subject to any additional restrictions or provisions.

Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

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.

ChemGenes India Pvt. Ltd.

-----End of Safety Data Sheet-----