

MATERIAL SAFETY DATA SHEET

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

Product information

Product Name **4-Thiouridine**
Synonyms 1-((2R,3R,4S,5R)-3,4-Dihydroxy-5-(hydroxymethyl)tetrahydrofuran-2-yl)-4-thioxo-3,4-dihydropyrimidin-2(1H)-one
Catalog Number: **CGIRP2304**
Recommended use: Laboratory Use only

Manufacturer or supplier's name and address:

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Lucknow-226 001,U.P, India,
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SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

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

Label Elements

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

Other Hazards None

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance related information

Substance Name 4-Thiouridine
Synonyms 1-((2R,3R,4S,5R)-4-thioxo-3,4-dihydropyrimidin-2(1H) THIOURIDINE, 4- 4-THIOURIDINE thiouridine 4-thiouridineapprox. 4-Thio-D-uridine 1-((2R,3R,4S,5R)-3,4-dihydroxy-5-(hydroxyMethyl)tetrahydrofuran-2-yl)-4-thioxo-3,4-dihydropyriMidin-2(1H)-one
CAS no. 13957-31-8

Formula: C9H12N2O5S

SECTION 4. FIRST AID MEASURES

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

In case if 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

Use water spray

Suitable foam

Dry extinguishing powder

Carbon dioxide.

Special 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.

Environmental precautions

Do not let product enter drains.

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 in inert atmosphere, Store in freezer, under -20°C

Storage Requirements

Keep away from incompatible substances. Store in a cool, dry, well-ventilated area away from incompatible substances.

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	Solid
Appearance	Crystalline
Molecular Weight	260.27

SECTION 10. STABILITY AND REACTIVITY

Reactivity	No data available
Chemical stability	Stable under recommended storage conditions.
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)

Oxides of sulfur

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
Endocrine disrupting properties	No data available
Other adverse effects	No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Product	Offer surplus and non-recyclable solutions to a licensed disposal company. Dispose of as unused product.
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

Product is not subject to any additional regulations 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-----