

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 11/20/2023 Version: 1.0

## **SECTION 1: Identification**

1.1. Identification		
Product form Substance name CAS-No. Product code Formula Synonyms	: Substance : α-Thymidine (¹⁵N₂, 98%) : 4449-43-8 : NLM-10691 : C10H14*N2O5 : 1-(2-Deoxy-α-D-ribofuranosyl)-5-methyluracil	
1.2. Recommended use and restrict	ons on use	
No additional information available		
1.3. Supplier		
Cambridge Isotope Laboratories, Inc. 50 Frontage Rd 01810 ANDOVER, MA, 01810 USA T 1-800-322-1174 cilsales@isotope.com - www.isotope.com		
1.4. Emergency telephone number		
Emergency number	: 1-703-741-5970 Chemtrec 1-800-424-9300 24 hours	

2.1. Classification of the substance or mixture

#### **GHS US classification**

Not classified

2.2. GHS Label elements, including precautionary statements

#### **GHS US labeling**

No labeling applicable

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

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SECTION 3: Composition/Information on ingredients			
3.1. Substances			
Name	Product identifier	%	GHS US classification
α-Thymidine (¹⁵N₂, 98%) (Main constituent)	CAS-No.: 4449-43-8	100	Not classified
Full text of hazard classes and H-statements : see section 16		1	
3.2. Mixtures			
<b>N 1 1 1 1</b>			

Not applicable

<ul> <li>If you feel unwell, seek medical advice (show the label where possible). Evacuate danger area.</li> <li>When symptoms occur: go into open air and ventilate suspected area. If not breathing give artificial respiration. Get medical advice/attention.</li> <li>Wash with plenty of soap and water. and soap. Get immediate medical advice/attention.</li> </ul>
<ul> <li>Rinse cautiously with water for several minutes.</li> <li>Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.</li> </ul>
ets (acute and delayed)
: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.
<ul> <li>May be harmful if inhaled. May cause respiratory irritation.</li> <li>May be harmful in contact with skin. May cause moderate irritation.</li> <li>May cause eye irritation.</li> <li>May be harmful if swallowed.</li> </ul>

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures			
5.1. Suitable (and unsuitable) extinguishing	media		
Suitable extinguishing media	: Suitable extinguishing agents: Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.		
5.2. Specific hazards arising from the chemical			
Hazardous decomposition products in case of fire	: Carbon oxides (CO, CO2). Nitrogen oxides (NOx).		
5.3. Special protective equipment and precautions for fire-fighters			
	<ul> <li>Fight fire with normal precautions from a reasonable distance. Wear a self contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection.</li> <li>Do not enter fire area without proper protective equipment, including respiratory protection. Wear recommended personal protective equipment.</li> </ul>		

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SECTION 6: Accidental release measures	S
6.1. Personal precautions, protective equipm	ent and emergency procedures
6.1.1. For non-emergency personnel Emergency procedures :	Avoid breathing vapors, mist, gas. Avoid dust formation.
6.1.2. For emergency responders Protective equipment :	Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Prevent entry to sewers and public waters. Do not allow	w to enter drains or water courses. Avoid release to the environment.
6.3. Methods and material for containment an	id cleaning up
For containment : Methods for cleaning up :	Take up mechanically (sweeping, shoveling) and collect in suitable container for disposal. This material and its container must be disposed of in a safe way, and as per local legislation.
6.4. Reference to other sections	
For further information refer to section 13.	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling : Hygiene measures :	Provide adequate ventilation to minimize dust and/or vapor concentrations. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle in accordance with good industrial hygiene and safety practice.
7.2. Conditions for safe storage, including an	y incompatibilities
Technical measures       :         Storage conditions       :	Store in a well-ventilated place. Keep container tightly closed. Store at room temperature away from light and moisture.
SECTION 8: Exposure controls/personal	protection
8.1. Control parameters	
α-Thymidine ( <sup>15</sup> N <sub>2</sub> , 98%) (4449-43-8)	
No additional information available	
8.2. Appropriate engineering controls	
Appropriate engineering controls :	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
Environmental exposure controls :	Avoid release to the environment.
8.3. Individual protection measures/Personal	protective equipment
Personal protective equipment: Gloves. Protective clothing. Protective goggles. Self-co	intained breathing apparatus.
Materials for protective clothing:	

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#### Hand protection:

Wear suitable protective clothing and gloves

#### Eye protection:

Wear eye protection. Chemical goggles or face shield with safety glasses

#### Skin and body protection:

Wear suitable protective clothing, gloves and eye/face protection

#### **Respiratory protection:**

In case of inadequate ventilation wear respiratory protection. Approved supplied air respirator

#### Personal protective equipment symbol(s):



### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Solid.
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Molecular mass	: 244.22 g/mol (Labeled)
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

### 9.2. Other information

No additional information available

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SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Stable if stored under recommended conditions.	
10.3. Possibility of hazardous reactions	
No additional information available	
10.4. Conditions to avoid	
No additional information available	
10.5. Incompatible materials	
Strong oxidizing agents.	
10.6. Hazardous decomposition products	
Carbon oxides, nitrogen oxides (NOx).	

### **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

: Not classified
: Not classified
: No data available
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the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.
: May be harmful if inhaled. May cause respiratory irritation.
: May be harmful in contact with skin. May cause moderate irritation.
: May cause eye irritation.
: May be harmful if swallowed.

:	May	be	harmful	if	swallowed
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## **SECTION 12: Ecological information**

### 12.1. Toxicity

Ecology - general

: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

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12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
Other adverse effects	: Avoid release to the environment. Disposal must be done according to official regulations.
SECTION 13: Disposal considerations	
13.1. Disposal methods	
Regional legislation (waste)	: Waste materials should be disposed of under conditions which meet Federal, State, and local
Product/Packaging disposal recommendations	<ul> <li>environmental control regulations.</li> <li>Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.</li> </ul>
Ecology - waste materials	: Dispose of as unused product.
SECTION 14: Transport information	
In accordance with DOT / TDG / IMDG / IATA	
14.1. UN number	
Not regulated for transport	
14.2 LIN proper shipping name	

14.2. UN proper shipping name	
Proper Shipping Name (DOT) Proper Shipping Name (TDG) Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>
14.3. Transport hazard class(es)	
<b>DOT</b> Transport hazard class(es) (DOT)	: Not applicable
<b>TDG</b> Transport hazard class(es) (TDG)	: Not applicable
IMDG Transport hazard class(es) (IMDG)	: Not applicable
IATA Transport hazard class(es) (IATA)	: Not applicable
14.4. Packing group	
Packing group (DOT) Packing group (TDG) Packing group (IMDG)	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>

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Packing group (IATA)	: Not applicable
14.5. Environmental hazards	
Other information	: No supplementary information available.
14.6. Special precautions for user	
DOT No data available	
<b>TDG</b> No data available	
IMDG No data available	
IATA No data available	
14.7. Transport in bulk according to	Annex II of MARPOL 73/78 and the IBC Code
Not applicable	

## **SECTION 15: Regulatory information**

### 15.1. US Federal regulations

α-Thymidine (¹⁵N₂, 98%) (4449-43-8)				
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.			
Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):				
Name	CAS-No.	Listing	Commercial status	Flags
$\alpha$ -Thymidine ( <sup>15</sup> N <sub>2</sub> , 98%)	4449-43-8	Not present	-	

### **15.2. International regulations**

#### CANADA

α-Thymidine (<sup>15</sup>N<sub>2</sub>, 98%) (4449-43-8)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

#### **EU-Regulations**

No additional information available

#### **National regulations**

α-Thymidine (<sup>15</sup>N<sub>2</sub>, 98%) (4449-43-8)

Listed on TECI (Thailand Existing Chemicals Inventory)

**15.3. US State regulations** 

No additional information available

### **SECTION 16: Other information**

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#### Other information

: This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

Safety Data Sheet (SDS), USA

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