

Formula

THYMIDINE (13C10, 98%; 15N2, 96-98%)

Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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CNLM-3902

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

Product form : Substance

THYMIDINE (13C10, 98%; 15N2, 96-98%) Substance name

FC no : 200-070-4 (Unlabeled) CAS No : 50-89-5 (Unlabeled) Product code : CNLM-3902 *C10H14*N2O5

: dT / Thymine deoxyriboside / 1-(2-Deoxy-β-D-ribofuranosyl)thymine / 1-(2-Deoxy-β-D-Synonyms

ribofuranosyl)-5-methyluracil / 2'-Deoxythymidine

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category : Professional use

Industrial/Professional use spec : For professional use only

1.2.2. Uses advised against

No additional information available

Details of the supplier of the safety data sheet

Cambridge Isotope Laboratories, Inc.

50 Frontage Road Andover, MA 01810

USA

USA: 1-800-322-1174 Int: 1-978-749-8000 cilsales@isotope.com www.isotope.com

Emergency telephone number

Emergency numbers:

Chemtrec: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (24 hours)

SECTION 2: Hazards identification

Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

GHS-US classification

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. **Label elements**

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

GHS-US labelling

No labelling applicable

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2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

| Name | Product identifier | % | Classification according to Directive 67/548/EEC |
|---|---|-----|---|
| THYMIDINE (13C10, 98%; 15N2, 96-98%) (Main constituent) | (CAS No) 50-89-5 (Unlabeled) (EC no) 200-070-4 (Unlabeled) | 100 | Not classified |
| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
| THYMIDINE (13C10, 98%; 15N2, 96-98%) (Main constituent) | (CAS No) 50-89-5 (Unlabeled) (EC no) 200-070-4 (Unlabeled) | 100 | Not classified |

Full text of R- and H-statements: see section 16

| Name | Product identifier | % | GHS-US classification |
|--|------------------------------|-----|-----------------------|
| THYMIDINE (13C10, 98%; 15N2, 96-98%) (Main constituent) | (CAS No) 50-89-5 (Unlabeled) | 100 | Not classified |

Full text of H-statements: see section 16

3.2. Mixture

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a

physician.

First-aid measures after skin contact : Wash with soap and plenty of water. Consult a physician.

First-aid measures after eye contact : Flush eyes with water as a precaution.

First-aid measures after ingestion : Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a

physician.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : May be harmful if inhaled. May cause respiratory tract irritation.

Symptoms/injuries after skin contact : May be harmful if absorbed through skin. May cause skin irritation.

Symptoms/injuries after eye contact : May cause eye irritation.

Symptoms/injuries after ingestion : May be harmful if swallowed.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Reactivity : Not available.

5.3. Advice for firefighters

Firefighting instructions : Wear self contained breathing apparatus for fire fighting if necessary.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

Evacuate personnel to safe areas.

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for

preventive fire protection.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Wash hands before

breaks and at the end of workday.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep container tightly closed in a dry and well-ventilated place.

Storage conditions : Store at room temperature away from light and moisture.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Viscosity, dynamic

Personal protective equipment : Safety glasses. Gloves. Protective clothing. Respiratory protection of the dependent type.









Hand protection : Wear suitable protective clothing and gloves.

Eye protection : Wear safety glasses with side shields (or goggles) and a face shield.

Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance

at the work place.

Respiratory protection : When appropriate, use NIOSH/CEN approved respirator.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid
Appearance : Powder.

Molecular mass : 254.14 g/mol (Labeled)

Colour : White.

Odour : No data available.

Odour threshold : No data available
pH : No data available
Relative evaporation rate (butylacetate=1) : No data available

Melting point : 186 - 188 °C (367 - 370 °F)

Freezing point No data available Boiling point : No data available Flash point : No data available : No data available Auto-ignition temperature Decomposition temperature : No data available Flammability (solid, gas) : No data available Vapour pressure : No data available Relative vapour density at 20 °C No data available Relative density No data available Solubility : Water: 100 % - soluble Log Pow : No data available Log Kow : No data available Viscosity, kinematic : No data available

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: No data available

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: No data available Explosive properties Oxidising properties : No data available Explosive limits : No data available

Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Not available.

10.2. **Chemical stability**

Stable if stored under recommended conditions.

Possibility of hazardous reactions

No additional information available

Conditions to avoid 10.4.

Not available.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

Formed under fire conditions: Carbon oxides, nitrogen oxides (NOx).

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity Not classified

Skin corrosion/irritation : Not classified

No data available

Serious eye damage/irritation : Not classified

No data available

Respiratory or skin sensitisation : Not available

No data available

mouse, Fibroblast- Unscheduled DNA synthesis. mouse, Fibroblast- Unscheduled DNA Germ cell mutagenicity

synthesis. mouse- DNA inhibition

Carcinogenicity Not classified Reproductive toxicity : Not available Specific target organ toxicity (single exposure) : Not classified

No data available

Specific target organ toxicity (repeated

exposure)

: Not classified No data available

Aspiration hazard : Not classified

Potential adverse human health effects and

symptoms

To the best of our knowledge, the chemical, physical, and toxicological properties have not been

thoroughly investigated.

Symptoms/injuries after inhalation : May be harmful if inhaled. May cause respiratory tract irritation. Symptoms/injuries after skin contact : May be harmful if absorbed through skin. May cause skin irritation.

Symptoms/injuries after eye contact : May cause eye irritation. Symptoms/injuries after ingestion : May be harmful if swallowed.

SECTION 12: Ecological information

Toxicity

No additional information available

Persistence and degradability

THYMIDINE (13C10, 98%; 15N2, 96-98%) (50-89-5 (Unlabeled))

Persistence and degradability Not available.

Bioaccumulative potential

THYMIDINE (13C10, 98%; 15N2, 96-98%) (50-89-5 (Unlabeled))

Bioaccumulative potential Not available.

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Ecology - soil Not available.

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Other adverse effects : Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Waste materials should be disposed of under conditions which meet Federal, State, and Local

environmental control regulations.

Waste disposal recommendations : Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed

: DOT/IMDG/IATA: Not dangerous goods.

professional waste disposal service to dispose of this material.

Ecology - waste materials : Dispose as unused product.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Additional information

Special transport precautions

Other information : No supplementary information available.

Overland transport

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

14.4. Environmental hazards

Other information : No supplementary information available.

14.5. Special precautions for user

Special transport precautions : DOT/IMDG/IATA: Not dangerous goods.

14.6. 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

No additional information available

15.2. International regulations

CANADA

THYMIDINE (13C10, 98%; 15N2, 96-98%) (50-89-5 (Unlabeled))

Listed on the Canadian DSL (Domestic Substances List)

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15.2.1. National regulations

No additional information available

15.3. US State regulations

| THYMIDINE (13C10, 98%; 15N2, 96-98%)(50-89-5 (Unlabeled)) | | |
|---|---|--|
| State or local regulations | U.S Pennsylvania - RTK (Right to Know) List | |
| | U.S New Jersey - Right to Know Hazardous Substance List | |
| | This product does not contain any chemicals known to State of California to cause cancer, | |
| | birth defects, or any other reproductive harm. | |

SECTION 16: Other information

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.

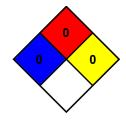
NFPA health hazard : 0 - Exposure under fire conditions would offer no hazard

beyond that of ordinary combustible materials.

NFPA fire hazard : 0 - Materials that will not burn.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.



HMIS III Rating

Health : 0 Minimal Hazard - No significant risk to health

Flammability : 0 Minimal Hazard Physical : 0 Minimal Hazard

CIL Multi-Solvent Mixture SDS

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

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