# **BERRY & ASSOCIATES**

# Safety Data Sheet Thymidine

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

#### 1.1 Product identifier

Product name Thymidine

Product number PY 7727

Brand Berry&Associates

Substance name Thymidine CAS no. 50-89-5

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

Laboratory chemicals; Manufacture of substance

## 1.3 Details of the supplier of the safety data sheet

Name Berry & Associates
Address 2434 Bishop Circle East

Dexter, MI 48130

**USA** 

Telephone 734-426-3787 Fax 734-426-9077

email alchem@berryassoc.com

## 1.4 Emergency telephone number

USA /Canada 800-424-9300 All else 703-527-3887

# **SECTION 2: Hazards identification**

## General hazard statement

Not a hazardous substance or mixture.

## 2.1 Classification of the substance or mixture

## Classification according to Regulation (EC) No 1272/2008 (CLP)

This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

## 2.2 Label elements

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

This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

#### 2.3 Other hazards

This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

# **SECTION 3: Composition/information on ingredients**

## 3.1 Substances

Substance name Thymidine CAS no. 50-89-5 Formula  $C_{10}H_{14}N_2O_5$  Molecular weight 242.23

Other names / synonyms

6-(β-D-2-Deoxyribofuranosyl)-3,4-dihydro-8H-pyrimido-[4,5-c][1,2]oxazi

n-7-one; 1-(2-Deoxy-ß-D-ribofuranosyl)-5-methyluracil; Thymidine

# **SECTION 4: First aid measures**

# 4.1 Description of first aid measures

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

respiration

Following skin contact Wash skin with soap and water.

Following eye contact Immediatly flush eyes with water as a precaution. Get medical attention if

symptoms occur.

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

water

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

No further relevant information available.

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

No further relevant information available.

# **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

## 5.2 Special hazards arising from the substance or mixture

Carbon oxides, nitrogen oxides (NOx)

#### 5.3 Advice for firefighters

Wear self-contained breathing apparatus if necessary and full protective gear to prevent contact with skin and eyes.

# **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

Avoid raising and breathing dust, provide adequate ventilation. As conditions warrant, wear a NIOSH approved self-contained breathing apparatus and appropriate personal protection (safety goggles, heavy rubber gloves and rubber boots).

## 6.2 Environmental precautions

Take measures to avoid release into the environment, do not let product enter drains.

#### 6.3 Methods and material for containment and cleaning up

Contain spill and collect as appropriate. Sweep up and shovel. Transfer to chemical waste container in accordance with local regulations.

# **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

Keep container tightly sealed.

# 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed and in a dry, well-ventilated area.

# **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

## 8.2 Exposure controls

## Appropriate engineering controls

Use industrial hygiene practices to control hazardous materials. keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands after use.

## Personal protection equipment

# Eye and face protection

Safety glasses

## Skin protection

Chemical-resistant gloves

## Respiratory protection

NIOSH approved respirator, as conditions warrant.

## **Environmental exposure controls**

Do not let material enter drains.

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

# 9.1 Information on basic physical and chemical properties

Appearance Odour Odour threshold pH Powder

No data available. No data available. No data available.

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

Initial boiling point and boiling range No data available. Flash point No data available. Evaporation rate No data available. Flammability (solid, gas) No data available. Upper/lower flammability limits No data available. Upper/lower explosive limits No data available. Vapour pressure No data available. Vapour density No data available. Relative density No data available. Solubilit(ies) Soluble in DMSO, water

Partition coefficient: n-octanol/water No data available. Auto-ignition temperature No data available. Decomposition temperature No data available. Viscosity No data available. Explosive properties No data available.

Oxidising properties No data available.

# **SECTION 10: Stability and reactivity**

# 10.1 Reactivity

No data available.

## 10.2 Chemical stability

Stable under recommended storage conditions.

# 10.3 Possibility of hazardous reactions

Reacts with strong oxidizing agents.

#### 10.4 Conditions to avoid

No data available

## 10.5 Incompatible materials

No data available.

## 10.6 Hazardous decomposition products

No data available.

# **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

#### **Acute toxicity**

Inhalation: no data available Dermal: no data available

LD50 Intraperitoneal - mouse - 2,512 mg/kg

Remarks: Behavioral:Somnolence (general depressed activity). Behavioral:Change in motor activity (specific

assay).

## Skin corrosion/irritation

No data available.

# Serious eye damage/irritation

May cause eye irritation.

## Respiratory or skin sensitization

No data available.

# Germ cell mutagenicity

mouse fibroblast

Unscheduled DNA synthesis

## Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or known carcinogen by OSHA.

# Reproductive toxicity

No data available.

## Summary of evaluation of the CMR properties

No data available.

# STOT-single exposure

No data available.

## STOT-repeated exposure

No data available.

## **Aspiration hazard**

No data available.

# **Additional information**

RTECS: XP2071000

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

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

No data available.

## 12.2 Persistence and degradability

No data available.

## 12.3 Bioaccumulative potential

No data available.

## 12.4 Mobility in soil

No data available.

## 12.5 Results of PBT and vPvB assessment

No data available.

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

## Disposal of the product

Dispose in accordance with local, state and federal regulations.

## Disposal of contaminated packaging

Dispose in accordance with local, state and federal regulations.

# **SECTION 14: Transport information**

# DOT (US)

Not dangerous goods

#### **IMDG**

Not dangerous goods

#### IATA

Not dangerous goods

# **SECTION 15: Regulatory information**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

# **SARA 313 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313.

## California Prop. 65 Components

Substance is not listed.

#### **SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

## SARA 311/312 Hazards

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 311/312.

## **Massachusetts Right To Know Components**

Substance is not listed.

#### **New Jersey Right To Know Components**

Thymidine CAS-No. 50-89-5

# Pennsylvania Right To Know Components

Thymidine CAS-No. 50-89-5

# California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

#### 15.2 Chemical Safety Assessment

A chemical safety assessment has not been carried out.

# **SECTION 16: Other information**

## Further information/disclaimer

The Information in this Safety Data Sheet is correct to the best of our knowledge and belief at the date of its publication but we cannot accept liability for any loss, injury or damage which may result from its use. The information given in the Safety Data Sheet is designed only as guidance for safe handling, storage and the use of the substance. It is not a specification nor does it guarantee any specific properties. All chemicals should be handled only by competent personnel, within a controlled environment. Users should make independent decisions regarding completeness of information based on all sources available. Berry & Associates, Inc. shall not be held liable for any damage resulting from handling or contact with the above product.