

# Safety Data Sheet - Version 5.0

Preparation Date 5/17/2013

Latest Revision Date (If Revised)

SDS Expiry Date 5/15/2016

s′

NHAc

WHMIS Symbols (Canada)

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

# 1.1 Product Identifier

Chemical Name N-Acetyl-S-(propyl-d7)-L-cysteine

Catalogue # A168037

Toronto Research Chemicals Inc.

# 1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

**Product Uses** To be used only for scientific research and development. Not for use in humans or animals.

1.3 Details of the	Supplier of the Safety Data Sheet
•	Taranta Dagaarah Chamicala

Company	2 Brisbane Road Toronto, ON M3J 2J8 CANADA
Telephone	+14166659696
FAX	+14166654439
Email	orders@trc-canada.com

# 1.4 Emergency Telephone Number

+14166659696 between 0800-1700 (GMT-5)

# 2. HAZARDS IDENTIFICATION

Emergency#

# WHMIS Classification (Canada)

None Not WHMIS controlled.

# 2.1/2.2 Classification of the Substance or Mixture and Label Elements

GHS Hazards Classification (According to EU Regulation 1272/2008 and US OSHA 1910.1200)

Not a hazardous substance by GHS.

# EU Classification (According to EU Regulation 67/548/EEC)

Not a hazardous substance by this Classification.

# EU Risk and Safety Statements (According to EU Regulation 67/548/EEC)

Hazard Statements Hazard Codes

None

# **Risk Codes and Phrases**

None Not a hazardous substance by this Classification.

# Safety Precaution Codes and Phrases

# GHS Hazards Identification (According to EU Regulation 1272/2008 and US OSHA 1910.1200)

# Signal Word None

# **GHS Hazard Statements**

None

Not a hazardous substance according to GHS.

# **GHS Precautionary Statements**

Toronto Research Chemicals - A168037

Page 1

### 2.3 Unclassified Hazards/Hazards Not Otherwise Classified

No data available

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

## 3.1 Substances

Molecular Formula: C<sub>8</sub>H<sub>8</sub>D<sub>7</sub>NO<sub>3</sub>S

Molecular Weight: 212.32 EC#:

#### CAS Registry #: Synonyms

N-Acetyl-3-(propyl-d7-thio)alanine; (Propyl-d7)mercapturic Acid;

## 3.2 Mixtures

Not a mixture

# 4. FIRST AID MEASURES

# 4.1 Description of First Aid Measures

#### **General Advice**

If medical attention is required, show this safety data sheet to the doctor.

#### If Inhaled

If inhaled, move casualty to fresh air. If not breathing, give artificial respiration and consult a physician.

#### In Case of Skin Contact

Wash affected area with soap and water. Consult a physician if any exposure symptoms are observed.

#### In Case of Eye Contact

Immediately rinse eyes with plenty of water for at least 15 minutes. Consult a physician.

#### If Swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Do NOT induce vomiting unless advised to do so by a physician or Poison Control Center. Seek medical attention.

#### 4.2 Most Important Symptoms and Effects, Both Acute and Delayed

No data available

#### 4.3 Indication of any Immediate Medical Attention and Special Treatment Needed

No data available

## 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

Carbon oxides, Nitrogen oxides, Sulfur oxides

#### 5.3 Advice for Firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

# 5.4 Further Information

No data available

# 6. ACCIDENTAL RELEASE MEASURES

## 6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Use recommended personal protective equipment (see Section 8). Prevent the formation of dusts and mists. Adequate ventilation must be provided to ensure dusts or mists are not inhaled.

#### **6.2 Environmental Precautions**

Material should not be allowed to enter the environment. Prevent further spillage or discharge into drains, if safe to do so.

## 6.3 Methods and Materials for Containment and Cleaning Up

Contain the spill and then collect using non-combustible absorbent material (such as clay, diatomaceous earth, vermiculite or other appropriate material). Place material in a suitable, sealable container and then dispose according to local/national regulations and guidance (see Section 13).

Toronto Research Chemicals - A168037

Page 2

# 7. HANDLING AND STORAGE

## 7.1 Precautions for Safe Handling

Avoid contact with skin and eyes. Ventilation and proper handling are to be used to prevent the formation of dusts and mists. Normal measures for preventative fire protection. No smoking, eating or drinking around this material. Wash hands after use.

#### 7.2 Conditions for Safe Storage, Including any Incompatibilities

Ensure container is kept securely closed before and after use. Keep in a well ventilated area and do not store with strong oxidizers or other incompatible materials (see Section 10).

Store at -20°C.

#### 7.3 Specific End Uses

For scientific research and development only. Not for use in humans or animals.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# 8.1 Control Parameters

Contains no components with established occupational exposure levels.

## 8.2 Exposure Controls

#### **Appropriate Engineering Controls**

A laboratory fumehood or other appropriate form of local exhaust ventilation should be used to avoid exposure.

#### **Personal Protective Equipment**

All recommendations below are advisory in nature and a risk assessment should be performed by the employer/end user prior to use of this product. The type of protective equipment must be selected based on the amount and concentration of the dangerous material being used in the workplace.

#### **Eye/Face Protection**

Safety glasses or safety goggles. All equipment should have been tested and approved under appropriate standards, such as NIOSH (US), CSA (Canada), or EN 166 (EU).

#### **Skin Protection**

Gloves should be used when handling this material. Gloves are to be inspected prior to use. Contaminated gloves are to be removed using proper glove removal technique so that the outer surface of the glove does not contact bare skin. Dispose of contaminated gloves after use in compliance with good laboratory practices and local requirements.

Gloves used for incidental exposures (splash protection) should be designated as "low chemical resistant" or "waterproof" by EU standard EN 374. Unrated gloves are not recommended.

Suggested gloves: AnsellPro nitrile gloves style 92-500 or 92-600, 5 mil thickness.

Penetration time has not been determined.

Gloves used for prolonged direct exposure (immersion) should be designated "chemical resistant" as per EN 734 with the resistance codes corresponding to the anticipated use of the material. Suggested gloves: AnsellPro Viton/Butyl gloves style 38-612, 4/8 mil thickness. Penetration time has not been determined.

These recommendations may not apply if the material is mixed with any other chemical, or dissolved into a solution. A risk assessment must be performed to ensure the gloves will still offer acceptable protection.

#### **Body Protection**

Fire resistant (Nomex) lab coat or coveralls.

#### **Respiratory Protection**

Recommended respirators are NIOSH-approved N95 or CEN-approved FFP2 particulate respirators. These are to be only used as a backup to local exhaust ventilation or other engineering controls. If the respirator is the only means of protection, a full-face supplied air respirator must be used.

9. PHYSICAL AND CHEMICAL PROPERTIES	
9.1 Information on Basic Physical and Chemical Properties	
A) Appearance	B) Odour
White Solid	No data available
C) Odour Threshold	D) pH
No data available	No data available
E) Melting Point/Freezing Point	F) Initial Boiling Point/Boiling Range
Toronto Research Chemicals - A16803	7 Page 3
	ations would be unaccustific this decourses to be used

90-92°C

- G) Flash point No data available
- I) Flammability (Solid/Gas) No data available
- K) Vapour Pressure No data available
- M) Relative Density No data available
- O) Partition Coefficient: n-octanol/water No data available
- **Q) Decomposition Temperature** No data available
- S) Explosive Properties No data available

#### 9.1 Other Information no data available

# **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

No data available

# 10.4 Conditions to Avoid

No data available

# 10.5 Incompatible Materials

Strong oxidizing materials.

# **10.6 Hazardous Decomposition Products**

No data available

# **11. TOXICOLOGICAL INFORMATION**

## 11.1 Information on Toxicological Effects

## A) Acute Toxicity

No data available

# **B) Skin Corrosion/Irritation**

No data available

# C) Serious Eye Damage/Irritation

No data available

# D) Respiratory or Skin Sensitization

No data available

# E) Germ Cell Mutagenicity

No data available

# F) Carcinogenicity

No data available

# G) Reproductive Toxicity/Teratogenicity

No data available

# H) Single Target Organ Toxicity - Single Exposure

No data available

#### I) Single Target Organ Toxicity - Repeated Exposure No data available

# J) Aspiration Hazard

No data available

#### K) Potential Health Effects and Routes of Exposure Inhalation

Toronto Research Chemicals - A168037

No data available

- H) Evaporation Rate No data available
- J) Upper/Lower Flammability/Explosive Limits No data available
- L) Vapour Density No data available
- N) Solubility Chloroform, Methanol
- P) Auto-Ignition Temperature No data available
- R) Viscosity No data available
- T) Oxidizing Properties No data available

Page 4

May be harmful if inhaled. May cause respiratory tract irritation. Ingestion

May be harmful if swallowed.

## Skin

May be harmful if absorbed through skin. May cause skin irritation.

# Eyes

May cause eye irritation.

### L) Signs and Symptoms of Exposure

No data available

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

# M) Additional Information

**RTECS: Not listed** 

# 12. ECOLOGICAL INFORMATION

#### 12.1 Toxicity

No data available

#### 12.2 Persistance 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

#### **12.6 Other Adverse Effects**

No data available

# 13. DISPOSAL CONSIDERATIONS

## **13.1 Waste Treatment Methods**

#### A) Product

Product may be burned in an incinerator equipped with afterburner and scrubber. Excess and expired materials are to be offered to a licensed hazardous material disposal company. Ensure that all Federal and Local regulations regarding the disposal and destruction of this material are followed.

# B) Contaminated Packaging

Dispose of as above.

#### C) Other Considerations

Product is not to be disposed of in sanitary sewers, storm sewers, or landfills.

# **14. TRANSPORT INFORMATION**

<u>14.1 UN Number</u>				
DOT (US): N/A	IATA: N/A	IMDG: N/A	ADR/RID: N/A	
14.2 UN Proper Shipping N	lame			
DOT (US)/IATA:				
Not dangerous goods				
IMDG/ARD/RID:				
Not dangerous goods				
14.3 Transport Hazard Clas	ss(es)			
DOT (US): N/A	IATA: N/A	IMDG: N/A	ADR/RID:N/A	
14.4 Packing Group				
DOT (US): N/A	IATA: N/A	IMDG: N/A	ADR/RID:N/A	
14.5 Environmental Hazard	ls			
DOT (US): None	IATA: None	IMDG: None	ADR/RID: None	
14.6 Special Precautions for	or User			
None				

# **15. REGULATORY INFORMATION**

This safety data sheet complies with the requirements of WHMIS (Canada), OSHA 1910.1200 (US), and EU Regulation EC No. 1907/2006 (European Union).

# 15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

A) Canada

Toronto Research Chemicals - A168037

Page 5

DSL/NDSL Status: This product is not listed on the Canadian DSL/NDSL.

# B) United States

TSCA Status: This product is not listed on the US EPA TSCA.

## C) European Union

ECHA Status: This product is not registered with the EU ECHA.

## 15.2 Chemical Safety Assessment

No data available

# **16. OTHER INFORMATION**

#### 16.1 Revision History

Original Publication Date: 5/17/2013

## 16.2 List of Abbreviations

- LD50 Median lethal dose of a substance required to kill 50% of a test population.
- LC50 Medial lethal concentration of a substance required to kill 50% of a test population.
- LDLo Lowest known lethal dose
- TDLo Lowest known toxic dose
- IARC International Agency for Research on Cancer
- NTP National Toxicology Program
- RTECS Registry of Toxic Effects of Chemical Substances

## 16.3 Further Information

Copyright 2013. Toronto Research Chemicals Inc. Copies may be made for internal use only. The above information is believed to be correct to the best of our knowledge, but is to be only used as a guide. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Please take all due care when handling this product.