

Azaserine

Revision: 04/17/2019

Page: 1 of 5

Supersedes Revision: 03/17/2014

according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/830 and US OSHA HCS 2015

Section 1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1 **Product Code:** 14834 **Product Name:** Azaserine

> Synonyms: O-(2-diazoacetyl)-L-serine; CI-337; CN 15757; NSC 742; O-Diazoacetyl-L-serine;

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

Relevant identified uses: For research use only, not for human or veterinary use.

1.3 **Details of the Supplier of the Safety Data Sheet:**

> **Company Name:** Cayman Chemical Company

> > 1180 E. Ellsworth Rd. Ann Arbor, MI 48108

Web site address: www.caymanchem.com

Information: Cayman Chemical Company +1 (734)971-3335

1.4 **Emergency telephone number:**

> CHEMTREC Within USA and Canada: **Emergency Contact:** +1 (800)424-9300

> > CHEMTREC Outside USA and Canada: +1 (703)527-3887

Section 2. Hazards Identification

2.1 **Classification of the Substance or Mixture:**

Acute Toxicity: Oral, Category 3 Carcinogenicity, Category 2

2.2 **Label Elements:**





GHS Signal Word: Danger

GHS Hazard Phrases: H301: Toxic if swallowed.

H351: Suspected of causing cancer.

GHS Precaution Phrases:

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P264: Wash {hands} thoroughly after handling.

P280: Wear {protective gloves/protective clothing/eye protection/face protection}.

GHS Response Phrases:

P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P308+313: IF exposed or concerned: Get medical attention/advice.

P330: Rinse mouth.

GHS Storage and Disposal Phrases:

Please refer to Section 7 for Storage and Section 13 for Disposal information.



Azaserine

Revision: 04/17/2019 Supersedes Revision: 03/17/2014

Carcinogenic Hazard: 3

2.3 Adverse Human Health Material may be irritating to the mucous membranes and upper respiratory tract.

Effects and Symptoms: May be harmful by inhalation or skin absorption.

May cause eye, skin, or respiratory system irritation.

Suspected of causing cancer.

Toxic if swallowed.

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

Section 3. Composition/Information on Ingredients

CAS#/ RTECS#	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
115-02-6 VT9625000	Azaserine	100.0 %		Acute Tox.(O) 3: H301 Carcinogen 2: H351

Section 4. First Aid Measures

4.1 Description of First Aid

Measures:

In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel.

Get immediate medical attention.

In Case of Skin Contact: Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated

clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

In Case of Eye Contact: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined

and tested by medical personnel.

In Case of Ingestion: Wash out mouth with water provided person is conscious. Never give anything by mouth to an

unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by

medical personnel.

Section 5. Fire Fighting Measures

5.1 Suitable Extinguishing Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.

Media: Use water spray to cool fire-exposed containers.

Unsuitable Extinguishing A solid water stream may be inefficient.

Media:

5.2 Flammable Properties and No data available.

Hazards:

No data available.

Flash Pt: No data.

Explosive Limits: LEL: No data. UEL: No data.

Autoignition Pt: No data.

5.3 Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or

equivalent), and full protective gear to prevent contact with skin and eyes.

SAFETY DATA SHEET Azaserine

Page: 3 of 5

Revision: 04/17/2019 Supersedes Revision: 03/17/2014

Section 6. Accidental Release Measures

6.1 Protective Precautions, Avoid raising and breathing dust, and provide adequate ventilation.

Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,

Emergency Procedures: and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

6.2 Environmental Take steps to avoid release into the environment, if safe to do so.

Precautions:

6.3 Methods and Material For Contain spill and collect, as appropriate.

Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations.

Up:

Section 7. Handling and Storage

7.1 Precautions To Be Taken Avoid breathing dust/fume/gas/mist/vapours/spray.

in Handling: Avoid prolonged or repeated exposure.

7.2 Precautions To Be Taken Keep container tightly closed.

in Storing: Store in accordance with information listed on the product insert.

Section 8. Exposure Controls/Personal Protection

8.1 Exposure Parameters:

8.2 Exposure Controls:

8.2.1 Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne

(Ventilation etc.): levels below recommended exposure limits.

8.2.2 Personal protection equipment:

Eye Protection: Safety glasses

Protective Gloves: Compatible chemical-resistant gloves

Other Protective Clothing: Lab coat

Respiratory Equipment NIOSH approved respirator, as conditions warrant.

(Specify Type):

Work/Hygienic/Maintenan Do not take internally.

ce Practices: Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower.

Wash thoroughly after handling.

No data available.

Section 9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Physical States: [] Gas [] Liquid [X] Solid

Appearance and Odor: A crystalline solid

pH: No data.
Melting Point: No data.
Boiling Point: No data.
Flash Pt: No data.
Evaporation Rate: No data.

Flammability (solid, gas): No data available.

Explosive Limits: LEL: No data. UEL: No data.

Vapor Pressure (vs. Air or mm No data.

Hg):

Vapor Density (vs. Air = 1): No data.



Azaserine

Revision: 04/17/2019 Supersedes Revision: 03/17/2014

Page: 4 of 5

Specific Gravity (Water = 1): No data. Solubility in Water: No data.

Solubility Notes: ~3 mg/ml in PBS (pH 7.2); soluble (sparingly) in: EtOH; DMSO; DMF;

Octanol/Water Partition

No data.

Coefficient:

Autoignition Pt: No data. **Decomposition Temperature:** No data. No data. Viscosity:

9.2 Other Information

> Percent Volatile: No data.

Molecular Formula & Weight: C5H7N3O4 173.1

Section 10. Stability and Reactivity

10.1 Reactivity: No data available.

10.2 Stability: Unstable [] Stable [X]

10.3 Stable if stored in accordance with information listed on the product insert. Stability Note(s):

Polymerization: Will occur [] Will not occur [X]

10.4 **Conditions To Avoid:** No data available.

10.5 Incompatibility - Materials acids

> To Avoid: chlorinated hydrocarbons

10.6 Hazardous carbon dioxide carbon monoxide **Decomposition or**

nitrogen oxides **Byproducts:**

Section 11. Toxicological Information

11.1 Information on The toxicological effects of this product have not been thoroughly studied.

Azaserine - Toxicity Data: Oral LD50 (rat): 170 mg/kg; Intraperitoneal LD50 (rat): 70 mg/kg; Oral **Toxicological Effects:**

> LD50 (mouse): 150 mg/kg; Intraperitoneal LD50 (mouse): 100 mg/kg; Subcutaneous LD50 (mouse): 50 mg/kg; Intraperitoneal TDLO (rat): 30 mg/kg; Oral TDLO (rat): 2500 µg/kg;

Intraperitoneal TDLO (rat): 500 µg/kg;

Chronic Toxicological Azaserine - Investigated as a mutagen, reproductive effector, and tumorigen.

Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. Effects:

See actual entry in RTECS for complete information.

Azaserine RTECS Number: VT9625000

CAS#	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
115-02-6	Azaserine	n.a.	2B	n.a.	n.a.

Section 12. Ecological Information

12.1 **Toxicity:** Avoid release into the environment.

Runoff from fire control or dilution water may cause pollution.

12.2 Persistence and No data available.

Degradability:

12.3 **Bioaccumulative** No data available.

Potential:

12.4 **Mobility in Soil:** No data available.

12.5 Results of PBT and vPvB No data available.

assessment:

12.6 Other adverse effects: No data available.

Multi-region format



Azaserine

Revision: 04/17/2019

Page: 5 of 5

Supersedes Revision: 03/17/2014

Section 13. Disposal Considerations

Waste Disposal Method: Dispose in accordance with local, state, and federal regulations. 13.1

Section 14. Transport Information

14.1 LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Toxin, extracted from living sources, solid, n.o.s. (Azaserine)

DOT Hazard Class: 6.1 POISON

UN/NA Number: UN3462 **Packing Group:** Ш



LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Toxin, extracted from living sources, solid, n.o.s. (Azaserine)

3462 **UN Number: Packing Group:** Ш

6.1 - POISON **Hazard Class:**

14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Toxin, extracted from living sources, solid, n.o.s. (Azaserine)

UN Number: 3462 **Packing Group:** Ш **Hazard Class:** 6.1 - POISON IATA Classification: 6.1

Additional Transport Transport in accordance with local, state, and federal regulations.

Information: When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of

> E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.

Section 15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS#	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
115-02-6	Azaserine	No	Yes 1 LB	No	
CAS#	Hazardous Components (Chemical Name)	Other US EPA or State Lists			
115-02-6	Azaserine	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: Yes: Canc.			

Regulatory Information This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)

No.1272/2008. Statement:

Section 16. Other Information

Revision Date: 04/17/2019

Additional Information About No data available.

This Product:

Company Policy or Disclaimer: DISCLAIMER: This information is believed to be accurate and represents the best information

> currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for

their particular purposes.