



MATERIAL SAFETY DATA SHEET

SECTION 1. Chemical Product and Company Identification L-hydroxy Arginine Acetate

Product Code: 53598-01-9 , **Reference #:** 80300

Product Name: L-hydroxy Arginine Acetate

CAS Number: 53598-01-9

Chemical Family: Nitric oxides

Synonyms

N5-[(hydroxyamino)iminomethyl]-L-ornithine, acetate;

L-NG-hydroxy Arginine Acetate

Manufacturer Name and

Address:

Cayman Chemical Company

1180 E. Ellsworth Rd.

Ann Arbor, MI. 48108

Cayman Chemical
Company

Cayman Chemical
Company

**Telephone
Numbers:**

(800)364-9897

(734)971-3335

Dates:

Date Entered:

06/27/1996

Revision: 04/25/2003

Printed: 04/25/2003

SECTION 2. Composition/Information on Ingredients L-hydroxy Arginine Acetate

Hazardous Components (Specific Chemical Identity/Common Name)

Name: L-hydroxy Arginine Acetate {L-NG-Hydroxy arginine acetate}

CAS #: 53598-01-9

Percentage: 100.0 %

OSHA PEL: No data.

ACGIH TLV: No data.

SECTION 3. Hazards Identification L-hydroxy Arginine Acetate

Emergency Overview

No data available.

Route(s) of Entry: Inhalation? Yes , Skin? Yes , Eyes? Yes , Ingestion? Yes , Other: Injection

Potential Health Effects (Acute and Chronic)

Contact may cause skin or eye irritation.

Material may be irritating to the mucous membranes and upper respiratory tract.

May be harmful by inhalation, ingestion, or skin absorption.

May cause eye, skin, or respiratory system irritation.

The toxicological properties of this compound have not been fully evaluated.

Carcinogenicity: NTP? No , IARC Monographs? No , OSHA Regulated? No

Carcinogenicity/Other Information

No data available.

Signs and Symptoms Of Exposure

Irritating to the skin, eyes, nose, throat, and respiratory tract.

SECTION 4. First Aid Measures

L-hydroxy Arginine Acetate

Emergency and First Aid Procedures

If inhaled remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.

If swallowed, 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.

In case of contact with eyes, hold eyelids apart and flush eyes with plenty of water. After initial flushings, remove any contact lenses and continue flushing for at least 20 minutes. Have eyes examined and tested by medical personnel.

In case of skin contact, immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

Note to Physician

No data available.

Medical Conditions Generally Aggravated By Exposure

No data available.

SECTION 5. Fire Fighting Measures

L-hydroxy Arginine Acetate

Flash Pt: No data. **Method Used:** See note below

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

Extinguishing Media

Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray when fighting fires involving this material.

Fire Fighting Instructions

As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

Flammable Properties and Hazards

No data available.

Hazardous Combustion Products

No data available.

SECTION 6. Accidental Release Measures

L-hydroxy Arginine Acetate

Steps To Be Taken In Case Material Is Released Or Spilled

Vacuum or sweep up material and place in disposal container.

Avoid raising dust.

After removal, ventilate contaminated area and flush thoroughly with water.

SECTION 7. Handling and Storage

L-hydroxy Arginine Acetate

Hazard Label Information:

Avoid contact with skin and eyes. Do not reuse this container.

Use with adequate ventilation. Wash thoroughly after handling.

Precautions To Be Taken in Handling

Avoid contact with eyes, skin, and clothing.

Do not reuse this container.

Use with adequate ventilation.

Wash thoroughly after handling.

Precautions To Be Taken in Storing

Store at correct temperature.

Other Precautions

No data available.

Work/Hygienic/Maintenance Practices

Do not take internally.

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

Wash thoroughly after handling.

SECTION 8. Exposure Controls/Personal Protection

L-hydroxy Arginine Acetate

Protective Equipment Summary - Hazard Label Information

Eye wash station in work area Lab coat Latex disposable gloves

Safety glasses Safety shower in work area Vent Hood

Respiratory Equipment (Specify Type)

No data available.

Eye Protection

Safety glasses

Protective Gloves

Latex disposable gloves

Other Protective Clothing

Lab coat

Engineering Controls (Ventilation etc.)

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

SECTION 9. Physical and Chemical Properties

L-hydroxy Arginine Acetate

Physical States:	[] Gas , [] Liquid , [X] Solid
Boiling Point:	No data.
Melting Point:	185.00 C to 200.00 C
Specific Gravity (Water = 1):	No data.
Density:	No data.
Vapor Pressure (vs. Air or mm Hg):	No data.
Vapor Density (vs. Air = 1):	No data.
Evaporation Rate (vs Butyl Acetate=1):	No data.
Solubility in Water:	24 mg/ml* at 25.0 C
Other Solubility Notes:	*PBS pH 7.2, sol. in DMF, DMSO & EtOH
Percent Volatile:	No data.
Saturated Vapor Concentration:	No data.
Viscosity:	No data.

Molecular Formula: C₈H₁₈N₄O₅
Molecular Weight: 250.30
pH: No data.
Appearance and Odor
A crystalline solid.

SECTION 10. Stability and Reactivity L-hydroxy Arginine Acetate

Stability: Unstable [] Stable [X]
Conditions To Avoid - Instability
No data available.
Incompatibility - Materials To Avoid
No data available.
Hazardous Decomposition Or Byproducts
No data available.
Hazardous Polymerization: Will occur [] Will not occur [X]
Conditions To Avoid - Hazardous Polymerization
No data available.

SECTION 11. Toxicological Information L-hydroxy Arginine Acetate

The toxicological effects of this compound have not been thoroughly studied.
Chronic Toxicological Effects
No data available.

SECTION 12. Ecological Information L-hydroxy Arginine Acetate

Runoff from fire control or dilution water may cause pollution.

SECTION 13. Disposal Considerations L-hydroxy Arginine Acetate

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

SECTION 14. Transport Information L-hydroxy Arginine Acetate

DOT Proper Shipping Name
No data available.
Additional Transport Information
Transport in accordance with local, state, and federal regulations.

SECTION 15. Regulatory Information

L-hydroxy Arginine Acetate

Regulatory information on this product is not available.

SECTION 16. Other Information **L-hydroxy Arginine Acetate**

For research use only, not for human or veterinary clinical use.

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