

SAFETY DATA SHEETS

This SDS packet was issued with item:

078501918

N/A

MATERIAL SAFETY DATA SHEET

SECTION 1. Product and Company Identification VITA FLEX PURE LYSINE

Product Code: VF-PURE LYSINE

Product Name: VITA FLEX PURE LYSINE

**Manufacturer Name and
Address:**

**Telephone
Numbers:**

Dates:

Vita-Flex Products

CHEMTREC (800)424-9300

Date Created:

03/30/2005

1302-B Lew Ross Road

Revision: 08/27/2007

Council Bluffs, IA. 51501

Marketing (800)848-2359

Printed: 08/28/2007

United States of America

Responsible Person: Sherry Faith , **Phone #:**

Additional Identity Information

3000130 4-lb

3000131 10-lb

SECTION 2. Composition/Information on Ingredients VITA FLEX PURE LYSINE

Hazardous Components (Chemical Name)	CAS #	Concentration
1. Lysine hydrochloride	657-27-2	0.0 -78.8 %

OSHA PEL	ACGIH TLV
1. No data.	No data.

SECTION 3. Hazards Identification VITA FLEX PURE LYSINE

Emergency Overview

Not a toxic product. Not expected to be a skin or eye irritant.

Route(s) of Entry: Inhalation? Yes , Skin? N.A. , Eyes? N.A. , Ingestion? Yes

Potential Health Effects (Acute and Chronic)

No data available.

Carcinogenicity: NTP? N.A. , IARC Monographs? N.A. , OSHA Regulated? N.A.

Carcinogenicity/Other Information

Not determined

Signs and Symptoms Of Exposure

No data available.

Medical Conditions Generally Aggravated By Exposure

No data available.

SECTION 4. First Aid Measures

VITA FLEX PURE LYSINE

Emergency and First Aid Procedures

If irritation occurs, wash thoroughly with soap and water. Consult a physician.

Note to Physician

No data available.

SECTION 5. Fire Fighting Measures

VITA FLEX PURE LYSINE

Flash Pt: No data. **Method Used:** No data.

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

Extinguishing Media

Water, foam, CO2, dry chemical

Fire Fighting Instructions

No data available.

Flammable Properties and Hazards

No data available.

Hazardous Combustion Products

No data available.

SECTION 6. Accidental Release Measures

VITA FLEX PURE LYSINE

Steps To Be Taken In Case Material Is Released Or Spilled

Material is a solid. Use solid waste clean-up procedures

SECTION 7. Handling and Storage

VITA FLEX PURE LYSINE

Precautions To Be Taken in Handling

No data available.

Precautions To Be Taken in Storing

Store in a cool, dry place.

Other Precautions

No data available.

SECTION 8. Exposure Controls/Personal Protection

VITA FLEX PURE LYSINE

Respiratory Equipment (Specify Type)

No data available.

Eye Protection

Recommended

Protective Gloves

Recommended

Other Protective Clothing

No data available.

Engineering Controls (Ventilation etc.)

Local Exhaust

Work/Hygienic/Maintenance Practices

None

SECTION 9. Physical and Chemical Properties

VITA FLEX PURE LYSINE

Physical States: ☐ Gas , ☐ Liquid , ☒ Solid

Boiling Point: No data.

Melting Point: 263.00 C to 264.00 C

Specific Gravity (Water = 1): 0.000000

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: Complete

Percent Volatile: No data.

Saturated Vapor Concentration: No data.

Viscosity: No data.

pH: No data.

Appearance and Odor

White or pale brownish odorless powder

SECTION 10. Stability and Reactivity

VITA FLEX PURE LYSINE

Stability: Unstable ☐ Stable ☒

Conditions To Avoid - Instability

No data available.

Incompatibility - Materials To Avoid

Incompatible with strong oxidizing agents.

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
VITA FLEX PURE LYSINE

May act as an irritant.

SECTION 12. Ecological Information
VITA FLEX PURE LYSINE

No data available.

SECTION 13. Disposal Considerations
VITA FLEX PURE LYSINE**Waste Disposal Method**

No data available.

SECTION 14. Transport Information
VITA FLEX PURE LYSINE**DOT Proper Shipping Name**

Non-hazardous for air, sea, and road freight.

Additional Transport Information

No data available.

SECTION 15. Regulatory Information
VITA FLEX PURE LYSINE

No data available.

SECTION 16. Other Information
VITA FLEX PURE LYSINE

Supersedes Revision 03/30/2005

User-Defined Field 16

The information and data herein are believed to be accurate and have been compiled from sources believed to be reliable. It is offered for your consideration, investigation, and verification.



Pure Lysine

Safety Data Sheet

Date of issue: 03/30/2005

Revision date: 12/13/2019

Supersedes: 08/27/2007

Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Trade name : Pure Lysine
Synonyms : 3000130

1.2. Recommended use and restrictions on use

Recommended use : Nutrient for horses.
Restrictions on use : Avoid contact with eyes and clothing. Do not use or store near heat or open flame.

1.3. Supplier

Vita Flex Nutrition
1302-B Lew Ross Road
Council Bluffs, IA 51501
www.vitaflex.com
1-800-848-2359 - 7:00 am - 3:45 pm MST Monday - Friday

1.4. Emergency telephone number

Emergency number : 1-800-424-9300 - CHEMTREC
1-703-527-3887 - CHEMTREC - Outside North America - Collect Calls Accepted

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Combustible Dust May form combustible dust concentrations in air

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Signal word (GHS US) : Warning
Hazard statements (GHS US) : May form combustible dust concentrations in air

2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification : Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
L-lysine, monohydrochloride	(CAS-No.) 657-27-2	100

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact : IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice and attention.
First-aid measures after ingestion : IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting unless directed to do so by medical personnel.

Pure Lysine

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4.2. Most important symptoms and effects (acute and delayed)

No additional information available

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Use extinguishing agent suitable for surrounding fire.

Unsuitable extinguishing media : Avoid heavy hose streams.

5.2. Specific hazards arising from the chemical

Explosion hazard : Dust cloud can be ignited by a spark. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Reactivity : This material is friable and can create small dust particles during any handling, processing, and transfer operations. This material can form explosive dust/air suspensions that are ignitable under some conditions.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Combustible dust - use low-pressure medium fog streams to avoid dust clouds. Ventilate closed spaces before entering. Eliminate ignition sources. Move containers away from the fire area if this can be done without risk.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Avoid contact with skin, eyes and clothing. Wear suitable protective equipment.

Emergency procedures : Evacuate unnecessary personnel. No flames, no sparks. Eliminate all sources of ignition. Ventilate spillage area. Avoid breathing dust/fume/gas/mist/vapors/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: Exposure controls/personal protection.

Emergency procedures : Contain spill and monitor for excessive dust accumulation. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Ventilate closed spaces before entering. Turn off electric power to area. As an immediate precautionary measure, isolate spill or leak area for at least 100 meters (330 feet) in all directions. Evacuate area.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Non-sparking tools should be used. Sweep or scoop spills, dispose of any unusable material in approved landfill. Use appropriate PPE.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin, eyes and clothing. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Ensure good ventilation of the work station. Avoid dust formation. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Provide local exhaust or general room ventilation. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapors/spray.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in original container. Store in a well-ventilated place. Keep cool. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Incompatible materials : Heat, sparks, open flame. Strong oxidizers.

Pure Lysine

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : It is recommended that dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment. Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

No respiratory protection needed under normal use conditions. In case of insufficient ventilation, use NIOSH approved respiratory protection.



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: White crystalline powder
Color	: White
Odor	: Odorless
Odor threshold	: No data available
pH	: 5.8
Melting point	: 253 - 256 °C
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non-flammable
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Bulk density	: 520 kg/m ³
Solubility	: Soluble
Log Pow	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available

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Explosion limits	: Not applicable
Explosive properties	: Combustible dust
Oxidizing properties	: Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

This material is friable and can create small dust particles during any handling, processing, and transfer operations. This material can form explosive dust/air suspensions that are ignitable under some conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur. May form combustible dust concentrations in the air.

10.4. Conditions to avoid

Avoid dust formation. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Strong oxidizing agents. Heat, sparks, open flame.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

GHS-US Properties	Classification
Acute toxicity (oral)	Not classified
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Not classified
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitization	Not classified
Germ cells mutagen	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
Specific target organ toxicant (single exposure)	Not classified
Specific target organ toxicant (repeated exposure)	Not classified
Aspiration hazard	Not classified

Potential health effects

Inhalation

Acute	: Exposure to dust may cause nasal and respiratory irritation.
Chronic	: Repeated or prolonged inhalation of dust may cause respiratory irritation.

Skin

Acute	: May cause mild mechanical irritation.
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Eye

Acute	: May cause mild mechanical irritation.
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Ingestion

Acute	: Under normal conditions of use, no health effects are expected.
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Mutagenicity : Not classified.

Carcinogenicity : Not classified.

Reproductive Effects : Not classified.

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SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

SECTION 14: Transport information

	UN number	Proper Shipping Name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	Not regulated	Not regulated	Not regulated	Not regulated	Not applicable
IMDG	Not regulated	Not regulated	Not regulated	Not regulated	Not applicable
IATA	Not regulated	Not regulated	Not regulated	Not regulated	Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

No additional information available

15.2. US State regulations

No additional information available

SECTION 16: Other information

Date of issue : 30 March 2005
Revision date : 13 December 2019
Supersedes : 27 August 2007

SDS US (GHS HazCom 2012) - CGP

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