

# SAFETY DATA SHEET

Revision date: June 24, 2021

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifiers Product Name** L-Lysine Animal feed **Use of Substance/Preparation** 

L-Lysine HCI; L-Lysine HCI 99% Synonyms/Alternate Names

Details of the supplier of the safety data sheet

Supplier Pestell Nutrition **Address** 141 Hamilton Rd

New Hamburg, Ontario Canada, N3A 2H1

**Phone** 519-662-2877 **Email** qa@pestell.com

**Emergency telephone number** 

Canada: CANUTEC 1 613-996-6666 (24 hr) US: CHEMTREC 1 703-527-3887

# 2. HAZARD IDENTIFICATION

**Emergency Overview** May be irritating to eyes, skin and respiratory system; Fine dust

dispersed in air may ignite.

**Appearance** Tan

**Physical State** Solid; Granular Odor Slight odor

**Potential Health Effects** 

**Routes of Exposure** Eye contact, skin contact, inhalation

**Acute Effects** 

**Eyes** May cause irritation Skin May cause irritation Inhalation May cause irritation

Ingestion Health injuries not known or expected under normal use; Not

for human consumption.

Chronic Effects None known.

**OSHA Defined Hazards** Not classified

**GHS Label Elements** N/A - Not a hazardous substance or mixture **GHS Signal Word** N/A - Not a hazardous substance or mixture **GHS Precautionary Statements** N/A - Not a hazardous substance or mixture

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Common Name** 

L-Lysine monohydrochloride

**Formula** 

C<sub>6</sub>H<sub>4</sub>N<sub>2</sub>O<sub>2</sub> HCI

**Non-Hazardous Components** 

**Chemical Name** L-Lysine monohydrochloride

CAS No. 657-27-2 Weight % 100

4. FIRST AID MEASURES

**Eye Contact Skin Contact** Rinse thoroughly with copious amounts of water

Rinse immediately with copious amounts of water; Soap may

be helpful.

Move to fresh air

Inhalation Ingestion

Rinse mouth with water; Drink water to dilute; Consult a

physician if necessary.

**Notes to Physician** 

Treat symptomatically

**Protection of First Aid Providers** 

Use personal protective equipment.

# 5. FIRE-FIGHTING MEASURES

Flammable Properties

Product is capable of burning but is not readily ignited; Risks of ignition followed by flame propagation or secondary explosions should be prevented by avoiding accumulation of

**Suitable Extinguishing Media** 

Water; Carbon dioxide (C0<sub>2</sub>); Dry chemical.

**Unsuitable Extinguishing Media** 

**Hazardous Combustion Products** 

Carbon monoxide (CO); Carbon dioxide (CO<sub>2</sub>); Nitrogen oxides

(NO<sub>x</sub>); HCI.

**Explosion Data** 

**Sensitivity to Mechanical Impact** Sensitivity to Static Discharge Specific Hazards Arising from the No information available.

Yes (dust)

Chemical

No known hazards.

**NFPA** 

Health

Flammability Stability & Reactivity

**Physical Hazard** 

0 1



#### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions** Ensure adequate ventilation

**Environmental Precautions** Prevent further chemical release if safe to do so.

Methods for Clean-up Sweep up and shovel into suitable containers for disposal.

### 7. HANDLING AND STORAGE

Handling Handle is accordance with good industrial hygiene and safety

> practice; Ensure adequate ventilation; Avoid dust formation in confined areas; Fine dust dispersed in air may ignite; Refer to NFPA 64, "Standard for the Prevention of Fires

and Dust Explosions in Agricultural and Food Processing Facilities."

Keep containers dry and tightly closed to avoid moisture absorption Storage

and contamination. Keep away from sources of ignition.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# **Exposure Limits**

Chemical Name	ACGIH TLV	OSHAPEL	MEXICO	NIOSH IDLH	OHSA
Particulates not otherwise regulated	TWA: 10 mg/m <sup>3</sup>	TWA: 15			TWA: 10
		mg/m <sup>3</sup>			mg/m³
		(total), 5			(total), 3
		mg/m³			mg/m³
		(respirable)			(respirable)

**Engineering Measures** Ensure adequate ventilation, especially in confined areas;

Apply technical measures to comply with the occupational

exposure limits.

**Personal Protective Equipment** 

Eye/Face Protection Skin & Body

**Protection Respiratory Protection** 

Safety glasses

Long sleeved clothing; Protective gloves.

In case of insufficient ventilation, wear suitable respiratory

protection.

**General Hygiene Consideration** Handle in accordance with good industrial hygiene and safety

practices.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** Tan

**Physical State** Solid; Granular Odor Slight odor

**Odor Threshold** No information available

**Flash Point** Not applicable **Autoignition Temperature** No data available **Boiling Point** Not applicable

**Melting/Freezing Point** Approx. 260°C/500°F Flammability Limits in Air No information available No information available **Exposure Limits** 

Minimum Ignition Temperature

pН

460°C/860°F

Neutral

Vapor Pressure

Solubility

Not applicable

Water Solubility

Insoluble in alcohol and ether

**Evaporation Rate** 

Not applicable

**Bulk Density** 

0.55-0.75 g/mL

Specific Gravity

No information available

Soluble (642 g/Lat 30°C)

Oxidizing Properties No information available

10. STABILITY AND REACTIVITY

**Chemical Stability** 

Stable under normal conditions

Conditions to Avoid

Heat, flames and sparks; Other sources of ignition.

Incompatible Materials

None known

Hazardous Decomposition Products
Possibility of Hazardous Reactions

None under normal processing

11. TOXICOLOGICAL INFORMATION

**Acute Toxicity** 

LD50 Oral

10000 mg/kg (Rat)

LD50 Dermal LC50 Inhalation

No information available No information available

**Chronic Effects** 

Carcinogenicity

**OSHA** 

No known carcinogenic chemicals in product

ACGIH NTP Mexico Not listed Not listed

Mexico IARC Not listed Not listed Not listed

**Subchronic Toxicity** 

No information available No information available

Irritation
Corrosivity
Sensitization

No information available No information available

Neurological Effects Mutagenic Effects Reproductive Effects No information available No information available No information available

Developmental Effects Teratogenicity No information available No information available

**Target Organ Effects** 

Respiratory system; Eyes; Skin.

# 12. ECOLOGICAL INFORMATION

Ecotoxicity Contains no substances known to be hazardous to the

environment; Contains no substances known to be non-

degradable in waste water treatment plants.

Persistence/Degradability

Bioaccumulation/Accumulation

Mobility

Readily biodegradable

Not applicable

Soluble in water

#### 13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods May be landfilled or incinerated, when in compliance with

local regulations; Dispose of in compliance with the laws and

regulations pertaining to this product in your jurisdiction.

Contaminated Packaging Empty containers may be taken for local recycling, recovery

or waste disposal.

#### 14. TRANSPORT INFORMATION

Domestic Transport Regulations (USA) DOT - Not regulated

Domestic Transport Regulations (CAN) TDG - Not regulated

IATA Not regulated

IMDG/IMO Not regulated

### 15. REGULATORY INFORMATION

**International Inventories** 

The components of this product are reported in the following inventories:

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	AICS	ENCS	CHINA	PICCS	KECL	NZLoC
L-Lysine monohydrochloride	Yes	Yes	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes

Legend

DSL - Domestic Substance List (Canada); EINECS - European Inventory of Existing Commercial Chemical Substances (EU); AICS - Australian Inventory of

Chemical Substances (Australia); ENCS - Existing and New Chemical Substances (Japan); PICCS - Inventory of Chemicals and Chemical Substances (Philippines); KECL- Korean Existing and Evaluated Chemical Substances (Korea); NZLoC - New Zealand Inventory of Chemicals (New Zealand); TSCA - Toxic Substances Control Act, Section 8(b) Inventory (USA).

**USA - Federal Regulations** 

Ozone Depleting Substances No Class I or Class II material is known to be used in the

manufacture of, or contained, in this product.

SARA 313 Not known to contain reportable chemicals.

SARA311/312 Hazardous

Categorization

Acute Health HazardNoChronic Health HazardNoFire HazardNoSudden Release of Pressure HazardNo

Reactive Hazard No

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPS) - 40 CFR 61 Not known to contain any HAPS.

**State Regulations** 

California Proposition 65 Not known to contain Proposition 65 chemicals above those

naturally present in their agricultural source.

State Right-to-Know No known components subject to "Right-To-Know" legislation of

any U.S. state.

Canada

WHMIS Product Classification WHMIS

Ingredient Disclosure List IDL

Not a WHMIS controlled product.

No known component is listed on the WHMIS Ingredients

disclosure list.

Canadian National Pollutant Release

Inventory (NPRI)

No known component is listed on NPRI.

### 16. OTHER INFORMATION

#### Disclaimer

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Pestell Nutrition and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

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