



SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION	
Product Name:	L-Lysine 70%
Product Number:	
Brand:	CJ
Intended Use:	Animal Feed Ingredient
Synonyms/Alternate Name:	Liquid Lysine 70%
Manufacturer:	CJ Bio America 1946 Harvest Avenue Fort Dodge, Iowa 50501 USA
Contact Information:	515-302-8028 (telephone) 515-574-3190 (fax)

2. HAZARD IDENTIFICATION	
Emergency Overview	This product contains no substances which, at their given concentration, are considered to be hazardous to health.
Appearance	Dark Brown
Physical State	Liquid
Odor	Slight Odor
Potential Health Effects	
Routes of Exposure	Eye contact, skin contact, inhalation
Acute Effects	
Eye	May cause irritation
Skin	May cause irritation
Inhalation	May cause irritation
Ingestion	May be harmful if swallowed
Chronic Effects	Prolonged exposure may cause chronic effects
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



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3. COMPOSITION / INFORMATION ON INGREDIENTS

Common Name	L-Lysine		
Formula	C ₆ H ₁₄ N ₂ O ₂		
Non-Hazardous Components			
Chemical Name	CAS No.	Weight %	North America Hazard Indicator
L-Lysine	56-87-1	55	-
Water	7732-18-5	45	-

4. FIRST AID MEASURES

Eye Contact	Rinse thoroughly with copious amounts of water
Skin Contact	Rinse immediately with copious amounts of water; soap may be helpful.
Inhalation	Move to fresh air
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.
Suitable Extinguishing Media	Water; Carbon Dioxide (CO ₂); Dry Chemical
Unsuitable Extinguishing Media	None
Hazardous Combustion Products	Carbon Monoxide (CO); Carbon Dioxide (CO ₂); Nitrogen Oxides (NO _x)
Explosion Data	
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available
Specific Hazards Arising from the Chemical	No known hazards
NFPA	
Health	0
Flammability	1
Stability & Reactivity	0
Physical Hazard	-



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6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Ensure adequate ventilation; use personal protective equipment; avoid high pressure washing or generation of aerosols.
Environmental Precautions	Prevent further chemical release if safe to do so.
Methods for Clean-up	Contain released materials; soak up with inert absorbent material; pick up and transfer to properly labeled containers; after clean-up, flush area with water.

7. HANDLING AND STORAGE

Handling	Handle in accordance with good industrial hygiene and safety practices.
Storage	Keep containers closed to avoid contamination; keep away from sources of ignition.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits	Not known to contain any hazardous materials with occupational exposure limits.
Engineering Measures	Ensure adequate ventilation; especially in confined areas.
Personal Protective Equipment	
Eye/Face Protection	Where splashes may occur, wear goggles.
Skin/Body Protection	Long sleeved clothing, protective gloves.
Respiratory Protection	In case of mist, spray or aerosol exposure, wear suitable respiratory protection.
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practices.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Dark Brown
Physical State	Liquid
Odor	Slight odor
Odor Threshold	No information available



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Flash Point	No information available
Autoignition Temperature	No data available
Boiling Point	115°C / 240°F
Melting / Freezing Point	No information available
Flammability Limits in Air	No information available
Exposure Limits	No information available
Explosive Properties	No information available
pH	9 to 11
Vapor Pressure	Not applicable
Solubility	Partly soluble in alcohol; insoluble in ether.
Water Solubility	Soluble
Evaporation Rate	Not applicable
Vapor Density	No information available
Density	(25°C) 9.6lb/gal (1.146 g/cm ³)
Specific Gravity	No information available
Oxidizing Properties	No information available
Viscosity	(25°C) 30-40 cps

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions
Conditions to Avoid	Heat, flames and sparks; other sources of ignition.
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Products	None under normal use; when heated to decomposition may emit chlorous and nitrous fumes.
Possibility of Hazardous Reactions	May generate heat when neutralized with acid.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

LD50 Oral	No information available
LD50 Dermal	No information available
LC50 Inhalation	No information available

Toxicological Data for Components

Chemical Name	Weight %	LD50 Oral	LD50 Dermal	LC50 Inhalation
Water	45	90 mL/kg rat		

Chronic Effects



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Carcinogenicity	No known carcinogenic chemicals in product.
OSHA	Not listed
ACGIH	Not listed
NTP	Not listed
Mexico	Not listed
IARC	Not listed
Subchronic Toxicity	No information available
Irritation	No information available
Corrosivity	No information available
Sensitization	No information available
Neurological Effects	No information available
Mutagenic Effects	No information available
Reproductive Effects	No information available
Developmental Effects	No information available
Teratogenicity	No information available
Target Organ Effects	No information available

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	Readily biodegradable
Bioaccumulation/Accumulation	Not applicable
Mobility	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
Domestic Transport Regulations (MEX)	MEX – Not regulated



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International Transport Regulations	
ICAO	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:
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Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	AICS	ENCS	CHINA	PICCS	KECL	NZLoC
L-Lysine	Yes	Yes	No	Yes	No	Yes	Yes	No	Yes	Yes	Yes
Water	Yes	Yes	No	Yes	No	Yes	No	Yes	Yes	Yes	Yes

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 materials known to be used in the manufacture of, or contained in, this product.
SARA 313	Not known to contain reportable chemicals
Clean Air Act, Section 112 Hazardous Air Pollutants (HAPS) 40 CFR 61	Not known to contain any HAPS
SARA 311/312 Hazardous Categorization	
Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No
USA: 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 US state



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Canada Regulations	
WHMIS Product Classification	Not a WHMIS controlled product
WHMIS Ingredient Disclosure List (IDL)	No known component is listed on the WHMIS Ingredient Disclosure List
Canadian National Pollutant Releases Inventory (NPRI)	No known component is listed on NPRI

16. OTHER INFORMATION	
Prepared By	CJ Bio America
Preparation Date	05/29/2015
Revision Date	09/20/2017
Revision Summary	Document created based on L-Lysine 50%

The information provided on this SDS is correct to the best of our knowledge, information, and belief at the date of its publication. This information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any other process, unless specified in the text.

