

1. IDENTIFICATION

Product Name: Liquid Lysine 55% (Feed Grade)

Product Number:

Brand: CJ

Intended Use: Animal Feed Ingredient

Synonyms/Alternate Names: LL70; Liquid Lysine 70

Manufacturer: CJ Bio America
1946 Harvest Avenue
Fort Dodge, IA 50501
USA

Contact Information: 515-302-8028 (telephone)
515-574-3179 (24-hr phone)
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

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: 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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Common Name: L-Lysine

Formula: $C_6H_{14}N_2O_2$

Non-Hazardous Components

Chemical Name	CAS No.	Weight %	North American 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 ₂)
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:	-



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 Consideration:	Handle in accordance with good industrial hygiene & safety practices

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Dark Brown
Physical State:	Liquid
Odor:	Slight odor
Odor Threshold:	No information available
Flash Point:	No information available
Auto-ignition 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) 9.6 lb/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

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

Chronic Effects

Carcinogenicity:	No known carcinogenic chemicals in product
OSHA:	Not listed
ACGIH:	Not listed
NTP:	Not listed
Mexico:	Not listed
IARC:	Not listed
Sub-chronic 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

Eco-toxicity:	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
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

Legend:

AICS – Australian Inventory of Chemical Substances (Australia)
 DSL – Domestic Substance List (Canada)
 EINECS – European Inventory of Existing Commercial Chemical Substance (EU)
 ENCS – Existing & New Chemical Substances (Japan)
 KECL – Korean Existing & Evaluated Chemical Substances (Korea)
 NZLoC – New Zealand Inventory of Chemicals (New Zealand)
 PICCS – Inventory of Chemicals & Chemical Substances (Philippines)
 TSCA – Toxic Substances Control Act, Section 8(b) Inventory (USA)

Safety Data Sheet

Revision 02
06Jun18

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

SARA 311/312 Hazardous Categorization:

Not known to contain reportable chemicals

Acute Health Hazard:

No

Chronic Health Hazard:

No

Fire Hazard:

No

Sudden Release of Pressure Hazard:

No

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:

Not a WHMIS controlled product

WHMIS Ingredient Disclosure List IDL:

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

Prepared By:

CJ Bio America

Origination Date:

05/29/2015

Revision Date:

06/06/2018

Revision Summary:

Corrected the product name and synonyms/alternate name

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