

Safety Data Sheet

 Revision 03
 03Aug21

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: C₆H₁₄N₂O₂

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:	Brown Liquid
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

Safety Data Sheet

Revision 03
03Aug21

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:	1.145 ± 0.025 g/cm ³
Specific Gravity:	No information available
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:	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 g/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

Safety Data Sheet

Revision 03
03Aug21

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:

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)

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:
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
 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:

08/03/2021

Revision Summary:

Changed appearance from Dark Brown to Brown to coincide with COA.

 Updated Density to reflect standard of COA (1.145 ± 0.025 g/cm³) removed (25°C) 9.6 lb/gal (1.146 g/cm³)

Removed Viscosity (25°C) 30-40 cps based on review of internal standard.

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The 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.