



# Safety Data Sheet

Revision 02  
11Jun18

## 1. IDENTIFICATION

**Product Name:** Liquid Lysine 50% (Feed Grade)

**Product Number:**

**Brand:** CJ

**Intended Use:** Animal Feed Ingredient

**Synonyms/Alternate Names:** LL64; Liquid Lysine 50

**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	50	-
Water	7732-18-5	50	-

## 4. FIRST-AID MEASURES

<b>Eye Contact:</b>	Rinse thoroughly with copious amounts of water
<b>Skin Contact:</b>	Rinse immediately with copious amounts of water; soap may be helpful
<b>Inhalation:</b>	Move to fresh air
<b>Ingestion:</b>	Rinse mouth with water; drink water to dilute; consult a physician if necessary
<b>Notes to Physician:</b>	Treat symptomatically
<b>Protection of First Aid Providers:</b>	Use personal protective equipment

## 5. FIRE-FIGHTING MEASURES

<b>Flammable Properties:</b>	Product is capable of burning but is not readily ignited
<b>Suitable Extinguishing Media:</b>	Water; carbon dioxide (CO <sub>2</sub> ); dry chemical
<b>Unsuitable Extinguishing Media:</b>	None
<b>Hazardous Combustion Products:</b>	Carbon monoxide (CO); carbon dioxide (CO <sub>2</sub> ); nitrogen oxides (NO <sub>2</sub> )
<b>Explosion Data</b>	
<b>Sensitivity to Mechanical Impact:</b>	No information available
<b>Sensitivity to Static Discharge:</b>	No information available
<b>Specific Hazards Arising from the Chemical:</b>	No known hazards
<b>NFPA</b>	
<b>Health:</b>	0
<b>Flammability:</b>	1
<b>Stability &amp; Reactivity:</b>	0
<b>Physical Hazard:</b>	-



## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions:</b>	Ensure adequate ventilation; use personal protective equipment; avoid high pressure washing or generation of aerosols
<b>Environmental Precautions:</b>	Prevent further chemical release if safe to do so
<b>Methods for Clean-up:</b>	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

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

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Dark Brown
<b>Physical State:</b>	Liquid
<b>Odor:</b>	Slight odor
<b>Odor Threshold:</b>	No information available
<b>Flash Point:</b>	No information available
<b>Auto-ignition Temperature:</b>	No data available
<b>Boiling Point:</b>	115°C / 240°F
<b>Melting/Freezing Point:</b>	No information available
<b>Flammability Limits in Air:</b>	No information available
<b>Exposure Limits:</b>	No information available

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<b>Explosive Properties:</b>	No information available
<b>pH:</b>	9 to 11
<b>Vapor Pressure:</b>	Not applicable
<b>Solubility:</b>	Partly soluble in alcohol; insoluble in ether
<b>Water Solubility:</b>	Soluble
<b>Evaporation Rate:</b>	Not applicable
<b>Vapor Density:</b>	No information available
<b>Density:</b>	(25°C) 9.6 lb/gal (1.146 g/cm <sup>3</sup> )
<b>Specific Gravity:</b>	No information available
<b>Oxidizing Properties:</b>	No information available
<b>Viscosity:</b>	(25°C) 30 – 40 cps

## 10. STABILITY AND REACTIVITY

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

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

<b>LD50 Oral:</b>	No information available
<b>LD50 Dermal:</b>	No information available
<b>LC50 Inhalation:</b>	No information available

Chemical Name	Weight %	LD50 Oral	LD50 Dermal	LC50 Inhalation
Water	50	90 mL/kg rat	-	-

### Chronic Effects

<b>Carcinogenicity:</b>	No known carcinogenic chemicals in product
<b>OSHA:</b>	Not listed
<b>ACGIH:</b>	Not listed
<b>NTP:</b>	Not listed
<b>Mexico:</b>	Not listed
<b>IARC:</b>	Not listed
<b>Sub-chronic Toxicity:</b>	No information available
<b>Irritation:</b>	No information available
<b>Corrosivity:</b>	No information available
<b>Sensitization:</b>	No information available
<b>Neurological Effects:</b>	No information available
<b>Mutagenic Effects:</b>	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	NZIoC
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)  
 NZIoC – New Zealand Inventory of Chemicals (New Zealand)  
 PICCS – Inventory of Chemicals & Chemical Substances (Philippines)  
 TSCA – Toxic Substances Control Act, Section 8(b) Inventory (USA)

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## 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:

06/11/2018

### Revision Summary:

Updated format. Corrected the product name and synonyms/alternate name

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.