



Safety Data Sheet

Revision 02
31Mar20

1. IDENTIFICATION

Product Name:	L-Arginine
Product Number:	
Brand:	CJ
Intended Use:	Animal Feed Ingredient
Synonyms/Alternate Names:	Arginine, L-Arginine Base
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:	May be irritating to eyes, skin and respiratory system; fine dust dispersed in air may ignite
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-Arginine
Molecular Formula:	$C_6H_{14}N_4O_2$
Molecular Weight:	174.20 g/mol
Isomer	L (Laevo-rotatory)

Safety Data Sheet

Non-Hazardous Components

Chemical Name	CAS No.	Weight %	North American Hazard Indicator
L-Arginine	74-79-3	100	-

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; consult physician
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:	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"
Suitable Extinguishing Media:	Water; carbon dioxide (CO ₂); dry chemical
Unsuitable Extinguishing Media:	None
Hazardous Combustion Products:	Carbon oxides; 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:	-



6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Ensure adequate ventilation; avoid breathing vapors, mist or gas
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 in accordance with good industrial hygiene and safety practices
Storage:	Keep containers dry and tightly closed to avoid moisture absorption and contamination; keep away from sources of ignition

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

Chemical Name	ACGIH TLV	OSHA PEL	MEXICO	NIOSH IDLH	OSHA
Particulates not otherwise regulated	TWA: 10mg/m ³	TWA: 15mg/m ³ (total) 5mg/m ³ (respirable)	Not Listed	Not Listed	TWA: 10mg/m ³ (total) 3mg/m ³ (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:	Safety glasses
Skin & Body Protection:	Protective clothing
Respiratory Protection:	In case of insufficient ventilation, wear suitable respiratory protection
General Hygiene Consideration:	Handle in accordance with good industrial hygiene & safety practices

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Off-White to yellow crystal powder
Physical State:	Solid; crystalline powder
Odor:	Slight odor
Odor Threshold:	No information available
Flash Point:	Not applicable
Auto-ignition Temperature:	No data available
Boiling Point:	Not applicable
Melting/Freezing Point:	Approx. 223-224°C
Flammability Limits in Air:	No information available
Exposure Limits:	No information available
Minimum Ignition Temperature:	No information available
pH:	10.5-12.5
Vapor Pressure:	Negligible
Solubility:	Insoluble in alcohol and ether
Water Solubility:	148g/mL (20°C, water)
Evaporation Rate:	Negligible
Bulk Density:	0.55-0.85 g/mL
Specific Gravity:	No information available
Oxidizing Properties:	No information available

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal conditions
Conditions to Avoid:	High temperatures; incompatible materials; light; dust generation; moisture
Incompatible Materials:	Strong oxidizing agents; moisture
Hazardous Decomposition Products:	Nitrogen oxides; carbon monoxide; irritating & toxic fumes & gases; carbon dioxide
Possibility of Hazardous Reactions:	No data available

11. TOXICOLOGICAL INFORMATION

Acute Toxicity	
LD50 Oral:	No information available
LD50 Dermal:	No information available
LC50 Inhalation:	No information available



Safety Data Sheet

Revision 02
31Mar20

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:	Respiratory system; eyes; skin

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:	No information available
Bioaccumulation/Accumulation:	Not applicable
Mobility:	No information available

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



Safety Data Sheet

Revision 02
31Mar20

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-Arginine	Yes	Yes	No	Yes	No	Yes	Yes	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 material is 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:	02/04/2020
Revision Date:	03/31/2020
Revision Summary:	Revised pH to internal specification Added Bulk Density as provided by HQ data Added Water Solubility Added Molecular Weight Added Isomer

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