

# Safety Data Sheet

1. Substance / Preparation and Company name

Product : L-Lysine Monohydrochloride 99% Feed Grade

Manufacturer: CJ Bio America, Inc.Address: 1946 Harvest Avenue

Fort Dodge, IA 50501 USA

Phone : Tel 515-302-8028 Fax 515-574-3190

2. Composition / Information on Ingredients

Composition : L-Lysine HCl 99% (L-Lysine base 79%)

Chemical Family: Amino Acid (Essential)Molecular Formula:  $C_6H_{14}N_2O_2 \cdot HCl$ 

Molecular Weight : 182.65

Structure Formula : [H<sub>2</sub>N - CH<sub>2</sub> - CH<sub>2</sub> - CH<sub>2</sub> - CH<sub>2</sub> - CH - COOH] · HCl

NH<sub>2</sub>

3. Possible Hazard

No extraordinary risks for humans and environment

4. First Aid Measures

General Recommendation : Avoid contact

After inhalation : Remove individual to fresh air

After skin contact: Wash area thoroughly with soap and water

After eye contact: Wash eye with water for 15 minutes

After swallowing: Drink large amount of water

5. Fire Fighting Measures

Flash point : None
Auto ignition Temperature : N/A

Flammable limit in air : None Flammable

Extinguishing Media : Water

Special Fire Fighting : Should wear protective clothing and respiratory protection to protect from fumes of HCl

Procedure and NOx

Unusual Fire and Explosion : Not a fire hazard

Hazard

6. Accidental Release Measures

Method of cleaning up : Wash area with water. Avoid high pressure rinsing.

7. Handling and Storage

Handling : Recommended to wear glove and face mask if excessive handling is necessary

Storage : Recommended to be stored in clean and dry condition, under ambient temperature, sheltered

from sunlight and avoid from harmful substance.

Work Place : Keep to be clean.

8. Exposure Controls and Personal Protection

Precautionary measures : Give adequate ventilation to the premises where the product is stored and/or handled.

Respiratory Protection: Not needed for normal useProtection on hands: Not needed for normal useEye Protection: Not needed for normal use

Protection for skin : No special precaution must be adopted for normal use.

# 9. Physical and Chemical Properties

*Bulk Density* : 0.55 - 0.75 g/mL

 $pH(10\% \ solution)$  : 5.0 ~ 6.0

Appearance and Odor : White or pale brownish powder, odorless, characteristic taste

Solubility in Water : 642 g/L at 30°C

Percent Volatile : N/A
Evaporation rate : N/A
Melting point : 260°C

### 10. Stability and Reactivity

Stability : Stable if stored in dry condition in sealed or closed containers

Conditions to Avoid : Heating to decomposition

Substances to avoid : Strong oxidizers

Hazardous Reaction : None

# 11. Toxicology

Eyes : Very slightly irritant product

Skin : Not a skin sensitizer

## 12. Ecology

Degradability : High bio-degradable

Bio accumulation : No

Toxicology : Not Toxic for wild animals and plants

LD 50: 4g/kg (IP in Rat)

## 13. Eliminations and Considerations

Recover if possible. In so doing, comply with the local and national regulations currently in force.

#### 14. Transport Information

Proper delivering name : L—Lysine Monohydrochloride 99% : Stored in closed and sealed container

Packaging: : 25 kg net with 2 ply high performance paper bag and 1 ply PE

800 kg Bulk bag with PE laminated (For Export)

1000 kg Bulk bag with PE laminated

### 15. Regulatory Information

88/379/EEC (Classification and Labelling):

The preparation should not be considered as dangerous accordingly to dir. 88/379/EEC.

Where applicable, refer to the following regulatory provisions:

Directive 82/501/EEC (Activities linked to risks of serious accidents) and subsequent amendments

#### 16. Other Information

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended. This MSDS cancels and replaces any preceding release.

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