



希杰(沈阳)生物科技有限公司  
中国辽宁省沈阳市  
沈北新区裕农路38号  
韩国CJ集团提供技术

CJ (SHENYANG) BIOTECH CO.,LTD  
# 38 Yunong Road, Shenbei New District, Sh  
enyang, Liaoning, China.  
UNDER LICENSE OF CJ CORP. KOREA

## MATERIAL SAFETY DATA SHEET

### L-Isoleucine

#### 1. Substance / preparation and company name

Product : L-Isoleucine Feed Grad  
Manufacturer : CJ (SHEN YANG) BIOTECH CO., LTD.  
#38 YuNong Road Shenbei New District Shenyang Liaoning  
China 110164  
Emergency phone : +86-24-31410001

#### 2. Composition / information on ingredients

Composition : L-Isoleucine 90.0 %  
Chemical family : Amino Acid (Essential)  
Formula :  $C_6H_{13}NO_2$   
Molecular Weight : 131.17

#### 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 amounts 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 Procedure : Should wear protective clothing and respiratory  
protection.  
Unusual Fire and Explosion Hazard : Not a fire hazard



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## 6. Accidental release measures

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

## 7. Handling & storage

Handling : Recommended to wear glove and face mask if excessive  
handling in 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 clean

## 8. Exposure control and personal protection

Precautionary measures : Give adequate ventilation to the premises where the product  
is stored and/or handled.  
Protection or hands : Not needed for normal use  
Eye protection : Not needed for normal use  
Protection for skin : No special precaution must be adopted for normal use

## 9. Physical and chemical properties

Solubility in Water : 40 g/l at 20 °C  
Evaporation Rate : Not available.  
Melting point : Decomposes. (284°C or 543.2°F)

## 10. Stability and reactivity

Stability : Stable if stored in dry conditions in sealed or closed containers  
Condition 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



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## 12. Ecology

Degradability	:	High bio degradable
Bio accumulation	:	No
Toxicology	:	Not toxic for wild animals and plants
LD <sub>50</sub>	:	Not available

## 13. Eliminations and considerations

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

## 14. Transports information

Proper delivering name	:	L-Isoleucine
Proper delivering condition	:	Stored in closed and sealed container
Means of transportation	:	Sea : By ship Air : By aeroplane

## 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.*