

## Material Safety Data Sheet

### L-Arginine $\alpha$ -Ketoglutarate(2:1)

#### SECTION 1 -Product and Company Identification

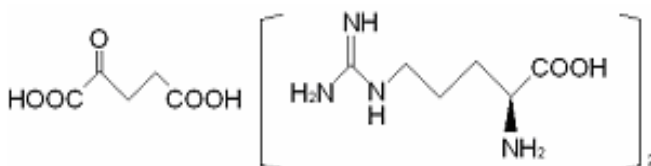
Product name L-Arginine  $\alpha$ -Ketoglutarate(2:1)

Company information manufacturer  
Kaiyuan Hengtai Fine Chemicals Factory  
No.18,YiheRoad,Kaiyuan City, Liaoning Province, China 112300

Tel:+86-410-3711928  
Fax:+86-410-3710986

#### SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

Chemical name L-Arginine  $\alpha$ -Ketoglutarate(2:1)  
CAS No. 5256-76-8  
Molecular formula  $C_{17}H_{34}N_8O_9$   
Molecular mass 494.5g/mol  
Structure



#### SECTION 3 - HAZARDS IDENTIFICATION

Most important hazards May cause eye and skin irritation. May cause respiratory and digestive tract irritation.

Target organs: None.

#### SECTION 4 - FIRST AID MEASURES

Eyes Rinse immediately with tap water for at least 15 minutes, open eyelids forbidly. Get medical aid immediately.

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# 开原亨泰精细化工厂

## Kaiyuan Hengtai Fine Chemicals Factory

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Skin	Remove immediately contaminated clothes, wash affected skin with water and soap, do not use any solvents
Inhalation	Remove the casualty to fresh air and keep him/her calm. Consult physician.
Notes to physician	Treat symptomatically

### SECTION 5 - FIRE FIGHTING MEASURES

Suitable extinguishing media	Water spray jet, dry powder, foam, carbon dioxide
Specific hazards	Consider dust explosion hazard.
Protection of fire-fighters	Precipitate gases/vapors/mists with water spray

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

Environmental protection	Do not allow to enter drains or waterways.
Methods for cleaning up	Collect solids(avoid dust formation) and hand over to waste removal Clean contaminated areas with little ethanol

### SECTION 7 - HANDLING and STORAGE

Handling	
Technical measures	processing in closed systems, if possible superposed by inert gas(e.g. nitrogen) Local exhaust ventilation necessary Take precautionary measures against electrostatic charging Avoid dust formation; very high dust explosion hazard
Suitable materials	Stainless steel, aluminium, enamel, glass, polyethylene When plastics are used, possible electrostatic charges must be Considered.
Storage	
Storage conditions	Store in a dry place, room temperature
Validity	24 months, in the unopened original container, see "best use before" date stated on the label.
Packaging materials	Tightly closing; aerial: stainless steel, glass, aluminium, enamel, polyethylene, plywood (lined with polyethylene bag), cardboard (lined with polyethylene bag)

### SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

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Engineering measures	Use adequate general or local exhaust ventilation to keep airborne
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concentrations below the permissible exposure limits.

Personal protective equipment

Respiratory protection	In case of open handling or accidental release: particle mask or respirator with independent air supply
Hand protection	Protective gloves
Eye protection	Safety glasses

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Colour	White
Form	solid
Odour	None reported
Solubility	soluble in water.

SECTION 10 - STABILITY AND REACTIVITY

Conditions to avoid	Incompatible materials
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SECTION 11 - TOXICOLOGICAL INFORMATION

Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA

SECTION 12 - ECOLOGICAL INFORMATION

Inherent biodegradability	None listed
Ecotoxicity	None listed
Air pollution	Observe local/national regulations

SECTION 13 - DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

RCRA P-Series: None listed.

RCRA U-Series; None listed.

SECTION 14 - TRANSPORT INFORMATION

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Note Not classified by transport regulations

## SECTION 15 - REGULATORY INFORMATION

### US FEDEFAL

#### TSCA

None listed

#### Health & safety reporting list

None of the chemicals are on the health & safety reporting list.

#### Chemicals test rules

None of the chemicals in this product are under a chemical test rule.

#### Section 12b

None of the chemicals are listed under TSCA section 12b.

#### TSCA significant new use rule

None of the chemicals in this material have a SNUR under TSCA.

### SARA

#### Section 302(RQ)

None of the chemicals in this material have an RQ.

#### Section 302(TPQ)

None of the chemicals in this product have a TPQ.

#### Section 313

No chemicals are reportable under section 313.

#### Clean air act:

This material does not contain any hazardous air pollutants.

This material does not contain any class 10 zone depleters.

This material does not contain any class 20 zone depleters.

#### Clean water act :

None of the chemicals in this product are listed as hazardous substances under the CWA.

None of the chemicals in this product are listed as priority pollutants under the CWA.

None of the chemicals in this product are listed as toxic pollutants under the CWA.

### OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

### STATE

L-Arginine  $\alpha$ -Ketoglutarate(1:1) is not present on state lists from CA,PA,MN,MA,FL,or NJ.

#### California No significant risk level:

None of the chemicals in this product are listed.

### European/international regulations

European labeling in accordance with EC directives.

#### Safety phrases:

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S 24/25 Avoid contact with skin and eyes.

WGK(Water danger/protection)

No information available.

United kingdom occupational exposure limits

Canada

listed on Canada's DSL list.

WHMIS: Not available

not listed on Canada's ingredient disclosure list.

Exposure limits

#### SECTION 16 - ADDITIONAL INFORMATION

Use

As an additional of food

MSDS creating date:2003/6/3



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