



## Safety Data Sheet for Chemicals

**Product name: Arginine ferulate**

Version No.: 1.0

Safety Data Sheet for Chemicals-prepared in accordance with the GB/T 16483 GB/T 17519.

Item No.:

Tabulation date: May 25, 2020

**Part 1 Chemicals and Corporate Identity****Chinese name of the chemical:** Arginine ferulate**Alias:** L- Arginine ferulate**Molecular formula:** C<sub>16</sub>H<sub>24</sub>N<sub>4</sub>O<sub>6</sub>**CAS No.:** 950890-74-1**Related determined purpose:** Arginine ferulate can be used as antioxidant, cell conditioner and so on and it is used in the field of personal care products.**Corporate name:** Zley Holdings (Suzhou) Co., Ltd.**Corporate address:** Floor 10, Building 2, Yushan Square, High-tech Zone, Suzhou City, Jiangsu Province. Zip code: 215000.**Tel:** 0512-87775990/18626205929**Fax:** 0512-87775990**Website:** <http://www.zley.net/>**E-mail:** [baron58@vip.qq.com](mailto:baron58@vip.qq.com)**Emergency telephone:** 4000928866**Part 2 Component/Composition Information**

Composition	Mass percent (%)	CAS
Arginine ferulate	100	950890-74-1

**Part 3 Hazard Overview**

Routes of absorption	Respiratory tract, skin, eyes, taking orally
Chemical interaction	No interaction with other components has been found
Serious medical diseases caused by excessive leakage	No relevant information
Hazard category	This product is not listed in the classification scope of hazardous chemicals of CSH and GB 13690-92
Inhale toxicity	This product is liquid. Inhalation of respiratory tract will damage people's health, but people only smell it, it will not cause health effect to people
Supplement health hazard information	No extra health information
Inhale stimulation	No breathing causes stimulation
Skin contact	Skin contact will not cause obvious adverse effect
Eye contact	Eye contact will not cause allergy, corneal involvement or visual impairment
Intake stimulation	No stimulation
Acute target organ toxicity	Unknown
Chronic toxicity target organ	Unknown

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**Part 4 First-aid Measures**

Skin contact	Take off contaminated clothing and rinse it immediately and thoroughly with running water
Eyes contact	Lift eyelids immediately and rinse them thoroughly with plenty of running water or normal saline. Seek medical advice if necessary.
Inhalation	Move to fresh air. Seek medical advice in case of any symptom.
Ingestion	If the product is eaten by mistake, gargle immediately and seek medical advice if necessary.

**Part 5 Fire Protection Measures**

Hazardous characteristics	Powdery and non-combustible product. Whether it is explosive is unknown.
Suitable fire extinguishing agent	Water, spray water, dry powder and carbon dioxide
Firefighting method	Cut off the fire source and put out the fire with appropriate extinguishing agent. Try to put out the fire down the wind. Appropriate measures should be adopted to avoid the outflow of substances with adverse influence to the environment when fire is put out with water.
Special firefighting equipment to protect firefighters	Appropriate protection equipment (gloves, glasses, mouth-muffles and others) should be worn during putting out the fire to avoid skin and eyes exposures.
Other information	None

**Part 6: Accidental Release Measures**

Human safety protection measures	Not necessary
Environmental protection measures	It is prohibited to discharge the pollutants to the river system or any water channel.
Collection/cleaning measures	Small leakage: Avoid the flying dust. It should be collected in a dry, clean and covered container with a clean shovel. Large leakage: It should be collected, recycled or transported to waste disposal site for disposal.

**Part 7: Operation Method and Storage**

Operation cautions	Operators must be specially trained and strictly follow operation specifications. Attention should be paid to packing and carrying operations. Light loading and unloading are required for carrying to avoid damaging the packaging and container.
Storage cautions	It should be stored in a cool, dry and well

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	ventilated warehouse. Keep away from fire and heat source. The humidity in the warehouse should not be more than 85%. The packaging should be sealed to keep dry, and be stored separately with combustible (inflammable) goods, acids and others. Mix storage should be prohibited. The storage area should be provided with appropriate materials for leakage collection. Real-time inspection of label for clearness and no leakage should be conducted.
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### Part 8: Contact Control/Individual Protection

Allowable content	Substances with occupational exposure limits are not concluded.
Engineering control	Closed production process: full ventilation
Inhalation protection	Wear appropriate face guard to reduce damage to the suction system. In case of large leakage, chemical-proof suit should be worn including self-contained breathing apparatus.
Hand protection	Wear appropriate protective gloves to reduce the chemical contact with skin.
Eyes protection	Wear safety gloves or eye protectors combined with respiratory protection.
Skin and body protection	Wear appropriate protective clothing to reduce contact with the skin according to the requirements of the work environment. Select the type of protective equipment according to the characteristics of hazardous substances and content of the workplace.

### Part 9: Physicochemical Property

Appearance	White powder	Heavy metal	≤20ppm
Physical status	Powder	Total bacterial colony (CFU/ml)	≤100CFU/ml
Smell	Distinctive smell of arginine ferulate	Mycete & saccharomycetes (CFU/ml)	≤100CFU/ml
Molecular weight (g/mol)	368.38	Escherichia coli (CFU/ml)	Not detected

Solubility	Water solubility	Pseudomonas aeruginosa (CFU/ml)	Not detected
Suggested usage amount	0.1-1.0%	Staphylococcus aureus (CFU/ml)	Not detected
PH value	None	Upper explosive limit	None
Melting point (°C)	None	Lower explosive limit	None
Boiling point (°C)	None	Volatile component (%volume)	None
Flashing point	N/A	Inflammability	Non-flammability

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**Part 10: Stability and Reactivity**

Stability	Incompatible substances exist. Substances are considered to have stability. Dangerous polymerization reaction will not happen.
Reactivity	See Part 7

**Part 11: Toxicological Information**

Toxicity	None
Irritation	None

**Part 12: Ecological Information**

Biodegradation	Biodegradable
Others	None
Potential bioaccumulation	Low
Mobility in soil	Low

**Part 13: Disposal Considerations**

Waste chemical	Recycle as far as possible, or consult manufacturer about the relevant recyclable methods. Consult local waste management department about relevant disposal considerations methods. Bury the residues in the approved landfill. If possible, recycle the containers, or dispose wastes in the approved landfill.
Contaminated packaging	Please refer to above part

**Part 14: Transportation Information**

Air transportation (ICAO-IATA/DG, 61th edition)	Not regulated as dangerous goods for transportation
Sea transportation (IMDG-Code/GGVSee, 39-18)	Not regulated as dangerous goods for transportation
Transportation precautions	Check the integrity, sealing of the packaging containers before transportation, and isolate from power and fire sources during transportation.

**Part 15: Regulatory Information**

Country and region	Regulation name	Yes/No
China	Inventory of the Existing Chemical Substances in China	Yes

**Part 16: Other Information**

None

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