

Safety Data Sheet
According to Hazard Communication Standard (29 CFR 1910.1200)

L(+)- tartaric acid

Version 1.0

Issue date: 05/13/2022

Revision date: 05/13/2022

SDS record number: C555-TCO-010-151209

Product name L(+)- tartaric acid
Synonyms -
CAS # See section 3
Product code -
Product use -
Manufacturer/Supplier
Supplier(Manufacturer): Shanghai Orient Chemical Co., Ltd.
Address: Room 401 403, Floor 4, No. 3615 3619 3623, Gonghe New Road,
Shanghai, China
Contact person(E-mail): -
Telephone: +86-21-56980898
Fax: +86-21-59969200

Emergency telephone Number:

2. Hazard(s) identification

GHS classification

Physical hazards Not classified
Health hazards Eye damage/irritation Category 1
Environmental hazards Not classified

GHS label elements

Hazard Pictograms



Signal word Danger
Hazard statement Causes serious eye damage

Precautionary statement

Prevention Wear eye protection/face protection.
Response If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a poison center/doctor

Storage Not applicable.

Disposal Not applicable.

Other hazards Not available.

3. Composition / information on ingredients

Components	CAS#	Percent
L(+)- tartaric acid	87-69-4	99.7-100.5%

4. First-aid Measures

First aid procedures

Eye contact Rinse immediately with plenty of water for at least 15 minutes. Remove contact

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Skin contact	lenses if present and easy to do – continue rinsing. Seek medical attention. Remove contaminated clothing. Wash affected skin with soap and plenty of water. If skin irritation or dermatitis commences or persists seek medical attention.
Inhalation	In case of irritation of the respiratory system or mucous membranes, seek medical attention. Move to fresh air. Seek medical attention if you feel unwell or if exposure prolonged.
Ingestion	In case of spontaneous vomiting be sure that vomitus can freely drain due to danger of suffocation. Rinse mouth and then drink plenty of water. Induce vomiting (only first-aid staff) if person is conscious. Seek medical attention. Check breathing and pulse. Place victim in the recovery position, cover and keep warm. Loosen tight clothing such as a collar, tie, belt or waistband. Seek medical attention.
Notes to physician	Treat symptoms.

5. Fire-fighting measures

Flammable properties	Non flammable
Extinguishing media	
Suitable extinguishing media	Water spray, foam, powder, carbon dioxide.
Unsuitable extinguishing media	Not available.
Firefighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply. According to size of fire Full protection, if necessary. Dispose of contaminated extinction water according to official regulations.
Hazardous combustion products	Oxides of carbon.

6. Accidental release measures

Personal precautions	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. For personal protection see section 8.
Environmental precautions	If leakage occurs, dam up. Resolve leaks if this possible without risk. Prevent from entering drainage system. Inform the competent authorities when water or canalisation has been infiltrated.
Methods for cleaning up	Contain with suitable absorbent material. Scoop into marked containers for disposal. Flush small residues away with water.

7. Handling and storage

Handling	Avoid ingestion, inhalation, skin and eye contact. Handle in accordance with good industrial hygiene practice and any legal requirements. Ensure adequate ventilation, especially in confined areas. Maintain air concentrations below occupational exposure standards.
Storage	Keep away from heat and sources of ignition. Store in a cool, dry area with adequate ventilation. Protect from direct sunlight, extreme cold and hot. Keep containers closed.

8. Exposure controls / personal protection

Occupational exposure limits	This substance has no PEL, TLV, or other recommended exposure limit.
Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls:	Use in a well-ventilated area.

Individual protection measures, such as personal protective equipment:

Eye / face protection	Tightly fitting safety goggles.
Skin protection	Protective gloves. Protective clothing.
Respiratory protection	Breathing apparatus with filter required if occupational exposure limits may be exceeded.
General hygiene considerations	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing.

9. Physical and chemical properties**Appearance**

Physical state	Solid
Form	Crystal or powder
Color	Not available
Odor	Not available
Odor threshold	Not available
pH	ca. 2.2 (25 °C, 0.1 N soln)
Vapor pressure	< 5 Pa (20 °C)
Melting point/Freezing point	Not available
initial boiling point and boiling range	179.1 °C
Flash point	> 100 °C
Evaporation rate	Not available
Flammability (solid, gas)	Non flammable
Explosion limits	Not available
Vapor density	Not available
Relative density	1.878 (20.6 °C)
Solubility (water)	412 mg/L (20 °C)
Partition coefficient	log Pow: -1.91 (20 °C)
Auto-ignition temperature	375 °C
Decomposition temperature	162.5 °C
Specific gravity	Not available
Density	Not available
Flammability limits in air, upper, %by volume	Not available
Flammability limits in air, lower, % by volume	Not available
VOC	Not available
Percent volatile	Not available
Other data	
Viscosity	Not available

10. Stability and reactivity

Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Incompatible materials.
Incompatible materials	Not available.
Hazardous decomposition products	Oxides of carbon.

Possibility of hazardous reactions No dangerous reactions known.

11. Toxicological information

Toxicokinetics, metabolism and distribution:

Non-human toxicological data: Not available

Information on toxicological effects:

Acute toxicity:

LD50(Oral, Rat): > 2000 mg/kg bw female

LD50(Dermal, Rat): > 2000 mg/kg bw

LC50(Inhalation, Rat): Not available

Skin corrosion/Irritation: Not classified.

Serious eye damage/irritation: Causes serious eye damage

Respiratory or skin sensitization: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

STOT- single exposure: Not classified

STOT-repeated exposure: Not classified

Aspiration hazard: Not classified

12. Ecological information

Toxicity:

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	> 100 mg/L	96h	Fish	OECD 203	N/A	N/A
EC50	93.313 mg/L	48h	Daphnia	OECD 202	N/A	N/A
EC50	51.404 mg/L	72h	Algae	OECD 201	N/A	N/A

Persistence and degradability: Readily biodegradable

Bioaccumulative potential: Not available.

Mobility in soil: Not available.

Results of PBT&vPvB assessment: The substance is not PBT / vPvB.

Other adverse effects: No known significant effects or critical hazards.

13. Disposal considerations

Disposal instructions Dispose of contents/container in accordance with local/regional/national/international regulations.

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

Basic shipping requirements:

UN number Not regulated

Proper shipping name Not regulated

Hazard class Not regulated

Packing group Not regulated

Environmental hazards No

IATA

UN number Not regulated

UN proper shipping name	Not regulated
Transport hazard class(es)	Not regulated
Packing group	Not regulated
Environmental hazards	No

IMDG

UN number	Not regulated
UN proper shipping name	Not regulated
Transport hazard class(es)	Not regulated
Packing group	Not regulated
Environmental hazards	No

15. Regulatory information

US federal regulations

Toxic Substances Control Act (TSCA)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical Yes

Classified hazard categories Serious eye damage or eye irritation

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

Food and Drug Administration (FDA) Total food additive
Direct food additive
GRAS food additive

16. Other information, including date of preparation or last revision

HMIS® ratings Health: 2
Flammability: 1
Physical hazard: 0

NFPA ratings Health: 2
Flammability: 1
Instability: 0

Disclaimer The information in the sheet was written based on the best knowledge and