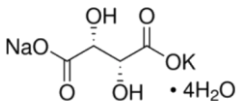


MATERIAL SAFETY DATA SHEET

L(+)-Sodium Potassium Tartrate

Section 1. Chemical Product and Company Identification

Product Identification

MSDS Name	L(+)- Sodium Potassium Tartrate
Synonyms	Rochelle salt; Sodium potassium L(+)-tartrate tetrahydrate; 2,3-dihydroxy- (2R,3R)-, monopotassium monosodiumsalt
Uses	Laboratory and manufacturing
Chemical Family	No Data Available
Chemical Formula	$C_4H_4KNaO_6 \cdot 4H_2O$
Structural Formula	
Molecular Weight	282.22 g/mol
Melting Point	75°C
Product Description	Colorless crystals or white crystal
Brand	GREATWALL
Manufacturer	The Greatwall Bio-chemical Engineering Co., Ltd

Company Identification

Organisation	Location	Telephone	Email
The GREATWALL Bio-chemical Engineering Co., Ltd	HUAILAI ZHANGJIAKOU HEBEI CHINA	+86 313 6233238	sales@greatwall-biochem.com

Emergency Contact Details (For emergencies only)

Organisation	Location	Telephone
CHEMTREC	Outside the USA	+1 703-741-5500
CHEMTREC	Inside the USA	800-424-9300

Section 2. Composition and Information on Ingredients

CAS#	Chemical Name	Percent
6381-59-5	L(+)-Sodium potassium tartrate	>98.5

Section 3. Hazards Identification

Hazard Classification	Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) No data available base on this.
Hazard Categories	None identified
Pictograms	None identified
Signal Word	None identified
Hazard Statements	None identified
Precautionary Statements	None identified
Dangerous Goods Classification	NOT Dangerous Goods
HSNO Classifications	2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)
SDS Ratings	Health Rating: 1 - None Flammability Rating: 1 - Slight Reactivity Rating: 0 - None Contact Rating: 1 - Slight
Lab Protective Equip	Goggles; Proper; Gloves; Coat

Potential Acute Health Effects

Eye	Dust may cause mechanical irritation.
Skin	May cause skin irritation. Low hazard for usual industrial handling.
Ingestion	May cause irritation of the digestive tract. Low hazard for usual industrial handling
Inhalation	Dust is irritating to the respiratory tract

Potential Chronic Health Effects

CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

Repeated or prolonged exposure is not known to aggravate medical condition.



Section 4. First Aid Measures

Eye	IF IN EYES: Rinse cautiously with water for several minutes, holding eyelids open and occasionally lifting the upper and lower lids. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. Immediately call a Poison Centre or doctor/physician.
Skin	IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs, get medical advice/attention.
Inhaled	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing until recovered. If respiratory symptoms persist, get medical advice/attention.
Swallowed	IF SWALLOWED: Rinse mouth, then drink plenty of water. Do not induce vomiting. Get medical advice/attention.
Main Symptoms and Effects	May be irritant to eyes, skin and mucous membranes.
Indication of any Immediate Medical Attention and Special Treatment Needed	Call a doctor in case of exposure

Section 5. Fire Fighting Measures

General Measures	If safe to do so, move undamaged containers from fire area. Cool containers with water spray until well after fire is out.
Flammability Conditions	Combustible solid.
Extinguishing Media	Adequate extinguishing means: Water under pressure. Foam. Carbonic gas. Dry powder. Inadequate means: No one specially remarkable is Known.
Fire and Explosion Hazard	May form flammable dust clouds in air.
Special Hazards Arising from the Substance or Mixture	In case of fire, gas and hazardous vapours may be formed.
Advice for Fire- Fighters	Protective clothing for fire-fighting: it is recommended a mask breathing apparatus and suitable fireproof suit.
Personal Protective Equipment	Wear self-contained breathing apparatus (SCBA) in combination with normal firefighting clothing (fire kit).
Flash Point	No data available
Additional information	Water for extinction must not arrive to sewers, to ground nor water. Provide enough devices for extinction water retention. Fire rests and extinction water contaminated must be eliminated according to current local laws.

NFPA

Health	Flammability	Instability	Physical hazards
1	1	0	N/A

Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures	Non-Emergency Personnel: avoid breathing the dust and contact with eyes, leave the contaminated area. Wear suitable protective equipment. Emergency Personnel: ventilate area, wear appropriate protective equipment, avoid breathing the dust and contact with eyes
Environmental Precautions	Do not let product enter drains, sewers, and surface/ground waters.
Methods and Material for Containment and Cleaning Up	Cover the drains to avoid product going into the sewage system, collect the spilled material in appropriate containers using a method that does not generate dust (vacuum cleaner or water cleaner) for reclamation or disposal in accordance with local rules. Flush area with water.

Section 7. Handling and Storage

Handling	Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Avoid handling which leads to dust formation. Avoid breathing dust and prevent contact with eyes and skin. Use personal protective equipment as required. Dust explosion hazard - Take precautionary measures against static discharge. Keep away from heat and ignition sources - No smoking.
Storage	Store in a cool, dry and well-ventilated place. Keep container tightly closed when not in use - Check regularly for spills. Keep out of direct sunlight. Avoid exposure to moisture. Keep away from heat and ignition sources - No smoking. Keep away from incompatible materials (bases, oxidising agents, reducing agents, silver, fluorine and metal).
Container	Keep in the original container.

Section 8. Exposure Controls & Personal Protection

General	No specific exposure standards are available for this product. For dusts from solid substances without specific occupational exposure standards:
Exposure Limits	No information available.
Biological Limits	No information available.
Engineering Measures	In industrial situations, maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods.
Personal Protection Equipment	Respiratory protection: In case of inadequate ventilation or if an inhalation risk exists, wear a dust mask/respirator, type P1 filter or equivalent. ^[1] _[SEP] Eye/face protection: Wear appropriate eye protection to prevent eye contact. Recommended: Safety glasses with side-shields; Chemical goggles. Hand protection: Handle with gloves. Recommended: Impervious gloves, e.g. Nitrile rubber (thickness: >0.35 mm) or Butyl rubber (thickness: >0.5 mm); Break through time: >480 min. ^[1] _[SEP] Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: Impervious work clothing and safety footwear for professional use.



Special Hazards Precautions No information available.

Work Hygienic Practices Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

Section 9. Physical and Chemical Properties

Appearance	White or transparent crystals or crystalline powder, solid	Odour	Odourless
Odour Threshold	No data available	pH	No data available
Melting Point:	70-80°C/ 158 - 176 °F	Freezing Point	No data available
Boiling Point	No data available	Flash Point:	No data available
Flammability	Not flammable	Explosive Properties	Not explosive
Auto-Ignition Temperature	No data available	Decomposition Temperature	No data available ^{[1][SEP]}
Partition Coefficient: n-Octanol/water	No data available	Solubility	Soluble in water ^{[1][SEP]}
Relative Density	1.79 g/cm ³	Viscosity	No data available

Section 10. Stability and Reactivity

Reactivity	None known, based on information available ^{[1][SEP]}
Chemical Stability	Stable under ordinary conditions of use and storage
Possibility of Hazardous Reactions	There are no hazardous reactions known
Conditions to Avoid	Incompatible products. Excess heat. Avoid dust formation.
Incompatible Materials	Strong oxidizing agents, fluorine, silver, metals
Hazardous Polymerization	Hazardous polymerization does not occur ^{[1][SEP]}
Hazardous Decomposition Products	Sodium oxides ^{[1][SEP]}

Section 11. Toxicological Information

General Information	No acute toxicity information is available for this product ^{[1][SEP]}
Oral LD50	Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.
Dermal LD50 ^{[1][SEP]}	Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.
Mist LC50 ^{[1][SEP]}	Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.
	No information available

Component Information
Toxicologically Synergistic Products

Irritation	No information available
Sensitization	No information available
Mutagenic Effects	No information available
Reproductive Effects	No information available
Developmental Effects	No information available
Teratogenicity	No information available
STOT - single exposure	No information available
STOT - repeated exposure	No information available
Aspiration hazard	No information available
Symptoms / effects, both acute and delayed	No information available
Endocrine Disruptor Information	No information available
Other ^[L] _[SEP]	The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.
Carcinogen Category	None

Section 12. Ecological information

Ecotoxicity	Do not empty into drains.
Persistence/Degradability	Soluble in water Persistence is unlikely based on information available.
Mobility ^[L] _[SEP]	Will likely be mobile in the environment due to its water solubility.
Environmental Fate	Prevent entry into drains and waterways.
Bioaccumulation Potential	No information available. ^[L] _[SEP]
Environmental Impact	No information available. ^[L] _[SEP]

Section 13. Disposal Considerations



Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Section 14. Transport Information

Surface transport	Special precautions are not necessary
Sea transport by vessel	Special precautions are not necessary
Air transport	Special precautions are not necessary

Section 15. Regulatory Information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ENLNCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
DL-Potassium sodium tartrate	-	-	-	-	-		X	-	X	X	-

Legend

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance.

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule.

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B)).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)	Not applicable
SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information Not applicable
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals
U.S. State Right-to-Know Regulations	Not applicable

U.S. Department of Transportation

Reportable Quantity (RQ): N

DOT Marine Pollutant^[1]_{SEP} N

DOT Severe Marine Pollutant N

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Section 16. Other information

Prepared By	YU ZHI
File No	Q/CCSH/MSDS/LPST-2020
Revision	A/1
Date	1/1/2020

Section 17. Declaration

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. The GREATWALL Bio-chemical Engineering Co., Ltd shall not be held liable for any damage resulting from handling or from contact with the above product. However, all of the information in the document regarding the product remains unchanged and matches the product ordered. For further information please contact <http://www.greatwall-biochem.com/en/>.