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ESTD.1976 MULTI CHEM YOUR CHEMICAL PARTNER

SAFETY DATA SHEET

L(+) Tartaric Acid

SECTION 1: Identification of the substance/mixture and of the company/undertaking Trade name:

1.1 Product identifier:	
CAS Number:	87-69-4
EC number:	201-766-0
1.2 SYNONYMS	d-tartaric acid; 2,3-dihydroxybutanedioic acid; 2,3-dihydrosuccinic acid; 1,2-dihydroxyethane-1,2-dicargoxylic acid

SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture:	Classification according to Regulation (EC) No. 1272/2008 [CLP] Eye Damage 1 (Hazard statement: H318: Causes serious eye damage.) Classification according to Directive 67/548/EEC Irritation / Corrosion: Xi; R41 Irritant; Risk of serious damage to eyes. Adverse physicochemical, human health and environmental effects No additional information available.
2.2 Label elements:	Labelling according to Regulation (EC) No 1272/2008
Hazard Pictograms:	
Signal Word:	Danger
Hazard statements:	**H318:** Causes serious eye damage.
Precautionary Statements:	**P280**: Wear protective gloves/protective clothing/eye protection/face protection. **P305+P351+P338:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. **P310:** Immediately call a POISON CENTER or doctor/physician.

2.3 Other hazards:	
Inhalation:	Inhalation of tartaric acid dust or mist in large quantities can irritate the **respiratory system**, leading to coughing, shortness of breath, or throat irritation. However, this is more likely to be a concern in industrial settings where tartaric acid is processed in powdered form.
Ingestion:	If consumed in excessive amounts, tartaric acid can lead to more serious issues such as **metabolic acidosis**, though this is unlikely under normal conditions.
Skin Contact:	**Skin contact** with concentrated tartaric acid solutions can cause irritation, especially in sensitive individuals. Prolonged exposure may result in dermatitis or mild burns.
Eye contact:	**Eye contact** can cause irritation, redness, and discomfort. If large amounts of tartaric acid come into contact with the eyes, it may lead to more serious damage.
Chronic Exposure:	No data available
Aggravation of pre-existing conditions :	No data available

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 87-69-4 L(+) Tartaric Acid
Identification number(s):	EC number: 201-766-0

SECTION 4: First aid measures

4.1 Description of first aid measures	
General information:	

After inhalation:	Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breath is difficult, give oxygen. Get medical aid.
After skin contact:	Get medical aid. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes
After eye contact:	: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical aid.
After swallowing:	Get medical aid immediately. DO NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person
4.2 Most important symptoms and effects, both acute and delayed:	Symptoms/injuries after inhalation: May cause coughing or/and asthma symptoms. Symptoms/injuries after skin contact: May cause moderate irritation. Symptoms/injuries after eye contact: May serious eye damage. Symptoms/injuries after ingestion: No data available.
4.3 Indication of any immediate medical attention and special treatment needed:	No data

SECTION 5: Firefighting measures

5.1 Extinguishing media	**Suitable extinguishing media:** Use water spray, dry chemical, carbon dioxide or appropriate foam. **Unsuitable extinguishing media:** Do not use a heavy water stream.
5.2 Special hazards arising from the substance or mixture	**Flash Point:** 210 deg C (410.00 deg F) **Autoignition Temperature:** 425 deg C (797.00 deg F) Explosion Limits, **Lower:** Not available.

	Reactivity: None to our knowledge. If there is a fire close by, use suitable extinguishing agents
5.3 Advice for firefighters	Protection during firefighting: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH(approved or equivalent), and full protective gear. This material in sufficient quantity and reduced particle size is capable of creating a dust explosion.
5.4 further information	no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures	Avoid all eyes and skin contact and do not breathe vapour and mist. Avoid contact with skin and eyes

6.2 Environmental precautions:	Avoid undiluted product to come into sewer or superficial water.
6.3 Methods and material for containment and cleaning up:	For containment: Collect in closed container and remove to a safe place for disposal by burning. Methods for cleaning up: Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

SECTION 7: Handling and storage

7.1 Precautions for safe handling	Additional hazards when processed: No specific measures are required provided the product is handled in accordance with the general rules of occupational hygiene and safety. Precautions for safe handling: Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and

	inhalation. Handling temperature: 10-25 °C Hygiene measures: Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work
7.2 Conditions for safe storage, including any incompatibilities	Storage conditions: Keep in a tightly closed container, stored in a cool, dry, well-ventilated place away from moisture. Protect against physical damage. Isolate from any source of heat or ignition. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product. Avoid high temperatures. Incompatibilities with Other Materials: Fluorine, silver, metals, oxidizing agents, reducing agents, bases. Prohibitions on mixed storage: Store away from strong oxidants, strong bases, strong acids. Packaging materials: polyethylene, polypropylene.
Requirements to be met by storerooms and receptacles:	no data available
7.3 Specific end uses	no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters	
Additional information about design of technical facilities:	no data available
8.2 Exposure controls	
Appropriate engineering controls	facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.
Personal protective equipment:	no data available

General protective and hygienic measures:	no data available
Respiratory protection:	A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.
Protection of hands:	Wear protective gloves
Eye protection:	Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.
Protection of Body:	clean body-covering clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties General Information	
Appearance: Form:	White crystals or powder
Colour:	Colourless
Odour:	No data available
pH-value:	1.6 (100g /l in water at 25℃)
Melting point/Melting range:	168-170℃
Boiling point/Boiling range:	210℃ open container
Flammability (solid, gaseous):	Not applicable
Ignition temperature:	No data available
Decomposition temperature:	› 170℃
Self-igniting:	No data available
Flash point:	No data available
Danger of explosion:	No data available
Explosion limits: Lower:	No data available
Explosion limits: Upper:	No data available
Vapour pressure:	No data available
Density at 20 °C:	1.76g/cm3
Relative density:	No data available
Vapour density:	No data available
Evaporation rate:	No data available
Solubility in / Miscibility with- ·water at 20 °C:	ca. 139g /100 g

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Partition coefficient:(n-octanol/water)	No data available
Viscosity:	No data available

SECTION 10: Stability and reactivity

10.1 Reactivity	None to our knowledge. If there is a fire close by, use suitable extinguishing agents
10.2 Chemical stability	Stable under ordinary conditions of use and storage.
10.3 Possibility of hazardous reactions	No data available
10.4 Conditions to avoid	Incompatible materials, dust generation.
10.5 Incompatible materials	Fluorine, silver, metals, oxidizing agents, reducing agents, bases.
10.6 Hazardous decomposition products	Carbon dioxide and carbon monoxide may form when heated to decomposition

SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	**Rat LDLo:** 7500mg/kg; **Rabbit LDLo:** 5000mg/kg.; **Dog LDLo:** 5000mg/kg.
Skin corrosion/Irritation:	Causes severe skin burns and eye damage
Serious eye damage/irritation:	Causes serious eye damage. pH: ca. ≥ 2
Respiratory damage/irritation:	Not classified
Ingestion:	No data available
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive toxicity:	Not classified
Specific target organ toxicity - single exposure:	Not classified
Specific target organ toxicity - repeated exposure:	Not classified
Aspiration hazard:	Not classified

Signs and Symptoms of Exposure:	Refer section 2.3
11.2 Additional toxicological information	
Aquatic Toxicity:	No data available
Biodegradability:	No data available

SECTION 12: Ecological information

12.1 Toxicity **Aquatic toxicity:**	LC50 fishes: 100 mg/L EC50 Daphnia: 93.3mg/L
12.2 Persistence and degradability:	Product is biodegradable.
12.3 Bioaccumulative potential:	Log Pow < 1 None bioaccumulation.
12.4 Mobility in soil:	No specific data.
12.5 Other adverse effects	Avoid undiluted product to come into sewer or superficial water

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Uncleaned packaging **Recommendation:**	Disposal through controlled incineration or authorized waste dump. Keep in suitable, closed containers for disposal. Comply with local regulations for disposal.
Recommended cleansing agents:	No data

SECTION 14: Transport information

14.1 UN-Number · ADR, ADN, IMDG, IATA:	No data available
14.2 UN proper shipping name · ADR, ADN, IMDG, IATA:	No data available
14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA :	No data available
14.4 Packing group · ADR, IMDG, IATA:	No data available
14.5 Environmental hazards:	No data available
14.6 Special precautions for user	No data available

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Directive 2012/18/EU	Directive 2012/18/EU, under that this substance is not classified as harmful substances
Named dangerous substances	This substance is not listed in the annex 1 to the directive.
15.2 Chemical safety assessment:	Chemical assessment has been carried out under **REACH** regulation.

SECTION 16: Other information

The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product