



COMPANY WITH ISO 9001 QUALITY MANAGEMENT
SYSTEM, HACCP AND ENVIRONMENT ISO 14001



NCh 2881
BUREAU VERITAS
Certification



SAFETY DATA SHEET (SDS)

L(+) TARTARIC ACID

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY:

1.1 Product Identifier.

Product name: L(+) Tartaric Acid, Natural
Chemical Name: 2,3-dihydroxybutanedioic acid
Chemical Family: organic carboxylic acid
CAS NUMBER: 87-69-4
E Number: E334
EC Number: 201-766-0
Molecular weight: 150.1
Chemical formula: C₄H₆O₆

1.2 Relevant identified uses of the substance and uses advised: Natural acidifier used in food industry, laboratory chemical, retarding agent. Uses advised against uses other than those established or recommended.

1.3 Details of Manufacturer

Manufacturer: Industrias Vinicas S.A.
Address: Galvarino Gallardo 1588, Providencia – Santiago - CHILE
Phone: +(56-22) 235-9482
Fax: +(56-22) 236-0253
E-mail: info@vinicas.cl
Web: www.vinicas.cl

1.4 Emergency Telephone Number: +(56) 75-231-2850 (Only available during office hours, Monday-Friday, 09:00-18:00).

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SECTION 2: HAZARDS IDENTIFICATION.

2.1 Classification of the Substance: Tartaric acid is not classified as hazardous under Directives 67/548/EEC and 1999/45/EC and/or EC Regulation 1272/2008 (CLP) and its subsequent amendments and adjustments

Classification according to EC REG. No. 1272/2008:

GHS05: Corrosion

H318: Causes serious eye damage

Classification according to REG. 67/548/EEC and 1999/45/EC:

Xi – IRRITANT

R41: Risk of serious damage to eyes

S36/37/39: Wear suitable protective clothing, gloves and eye/face protection

S26: In case of contact with eyes rinse immediately with plenty of water and seek medical advice

2.2 LABEL ELEMENTS:

According to EC REG. No. 1272/2008:

Symbol / Hazard Pictogram:



GHS05: Corrosion

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.

2.3 Other hazards: CAUTION! MAY CAUSE IRRITATION TO SKIN AND EYES

GRAS (Generally Recognized as Safe): Product is included in the GRAS list.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS:

3.1 Substances: 100% L(+) TARTARIC ACID - (see 1.1)

SECTION 4: FIRST AID MEASURES:

4.1 Description of first aid

General advice: Immediate medical intervention is not necessary but is recommended at a later time if any problems persist. Show this safety data sheet to doctor.

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Inhalation: Move the person to fresh air. Get medical attention for any breathing difficulty.

Ingestion: Do not induce vomiting. If large amounts are ingested, give water to drink. In severe cases seek medical advice.

Skin contact: Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. NEVER use solvents or thinners. Consult a physician if irritation develops.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Consult a physician if irritation develops.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation: May cause irritation to the respiratory tract and of mucous membranes. Symptoms may include coughing and sneezing.

Ingestion: Mildly irritating to the gastro-intestinal system if large quantities are ingested. The effect is that of an acid, producing abdominal pain, nausea, vomiting, and diarrhea.

Skin contact: May cause local and temporary irritation.

Eye contact: Causes strong irritation and serious damage.

Chronic Exposure: No information found

Worsening of Pre-existing Conditions: No information found

4.3 Indication of any immediate medical attention and special treatment: If in doubt, seek medical advice.

SECTION 5: FIRE-FIGHTING MEASURES:

5.1 Extinguishing media: Water spray, dry powder, foam or carbon dioxide.

5.2 Special hazards arising from the substance

Fire: As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source. If involved with fire, fumes can contain carbon monoxide.

Explosion: Not considered to be explosive. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

5.3 Advice for firefighters: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

SECTION 6: ACCIDENTAL RELEASE MEASURES:

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Non-Emergency Personnel: Evacuate unnecessary personnel from contaminated area. Avoid breathing the dust and contact with eyes.

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Emergency Personnel: Ventilate area, equip cleanup crew with appropriate protective equipment (see section 8)

6.2 Environmental Precautions: Do not allow entry to drains, sewers, and surface/ground waters.

6.3 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 wet sweeping) for reclamation or disposal in accordance with local rules.

6.4 Reference to Other Sections: See Section 13

SECTION 7: HANDLING AND STORAGE:

7.1 Precautions for Safe Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking, smoking, and when leaving work. Ensure adequate ventilation, especially in confined areas, to minimize dust generation and accumulation. Avoid contact with eyes and skin, using suitable protective equipment. Avoid inhalation and ingestion.

7.2 Conditions for Safe Storage, Including Any Incompatibilities: Keep in a tightly closed container. Protect from physical damage. Store in a cool, dry, ventilated area away from sources of heat, moisture, and incompatibilities. 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.

7.3 Specific End Uses: See 1.2

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION:

8.1 Control Parameters:

- OSHA Permissible Exposure Limit (PEL): 15 mg/m³ total dust, 5 mg/m³ respirable fraction for nuisance dusts.

- ACGIH Threshold Limit Value (TLV): 10 mg/m³ total dust containing no asbestos and < 1% crystalline silica for Particulates Not Otherwise Classified (PNOC).

It is recommended not to exceed the following values on the basis of 8 hour exposures.

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8.2 Exposure Controls

Ventilation System: Provide ventilation system; in general dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, a local exhaust system should be considered.

Personal Protective Equipment (PPE):

Personal Respirators (NIOSH Approved): If the exposure limit is exceeded, a half-face dust/mist respirator may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece dust/mist respirator may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-sullied respirator.
WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection: Wear protective gloves and clean body-covering clothing.

Eye Protection: Use safety glasses or chemical goggles with side shields. Maintain eye wash fountain and quick-drench facilities in work area.

Hygiene Measures: Handle with accordance with good industrial hygiene and safety practice. Wash your hands before breaks and at the end of the workday. Keep away from food and drink. Wash work clothing and PPE periodically to remove

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES:

9.1 Information on Basic Physical and Chemical Properties

Appearance: Colorless crystals or white crystalline powder

Physical State: Solid

Odor: Odorless

Odor Threshold: N/A

pH: 2.2 in water (15g/L)

Melting Point: 2.2 in water (15g/L)

Freezing Point: No data available

Boiling Point: 179.1°C at 1013 hPa

Flash Point: >100°C at 102.3 kPa

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Flammability: Not flammable **Upper Limits:** N/A **Lower Limits:** N/A
Explosive Properties: No data available **Upper Limits:** N/A **Lower Limits:** N/A
Auto-Ignition Temperature: 375°C at 1013 hPa
Decomposition Temperature: 425°C
Partition Coefficient: n-Octanol/water: Log Kow (Pow): -1.91 at 20°C
Solubility: ca.133 g/100 g of water.
Relative Density: 1.76 at 18°C
Vapor Density (Air=1): No data available
Evaporation Rate (BuAc=1): No data available
Vapor Pressure (mm Hg): No data available
Viscosity: No data available

SECTION 10: STABILITY AND REACTIVITY:

- 10.1 Reactivity:** Product is not reactive under recommended use and storage.
10.2 Chemical Stability: Stable under ordinary conditions of use and storage
10.3 Possibility of Hazardous Reactions: There are no hazardous reactions known
10.4 Conditions to Avoid: Heat, flames, ignition sources are incompatible.
10.5 Incompatible Materials: Strong oxidizing agents, fluorine, silver, metals.
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: Oral: LD50: > 2000 mg/kg bw for rat
Dermal: LD50: > 2000 mg/kg bw for rat
Skin Corrosion/Irritation: May be harmful if absorbed through skin causing mild irritation.
Serious Eye Damage/Irritation: Causes serious eye irritation
Respiratory or Skin Sensitization: No data available
Germ Cell Mutagenicity: No data available
Reproductive Toxicity: No data available
STOT-Single Exposure: No data available
STOT-Repeated Exposure: No data available
Aspiration Hazard: Negative
Information on Likely Routes of Exposure: Inhalation, Ingestion, and Eye/Skin Contact.

SECTION 12: ECOLOGICAL INFORMATION:

- 12.1 Toxicity:** No information available
12.2 Persistence and Degradability: Biodegradation in water: readily biodegradable. Substance is expected to degrade readily in sewage treatment plants.

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12.3 Bioaccumulative Potential: The aquatic bioaccumulation study does not need to be conducted as the substance is readily biodegradable

12.4 Mobility in Soil: The mobility in soil does not need to be evaluated as the substance is readily biodegradable

12.5 Results of PBT and vPvB Assessment: Not considered to be a PBT or vPvB substance

SECTION 13: DISPOSAL CONSIDERATIONS:

13.1 Waste Treatment Methods: Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements. Empty containers have to be handled with the same caution as the pure substance.

SECTION 14: TRANSPORT INFORMATION:

It is not dangerous for transport. In case of accident and disposal of the product see point 6.

SECTION 15: REGULATORY INFORMATION:

-----\Chemical Inventory Status - Part 1\-----
Ingredient TSCA EC Japan Australia

Tartaric acid (87-69-4) Yes Yes Yes Yes

-----\Chemical Inventory Status - Part 2\-----
--Canada--
Ingredient Korea DSL NDSL Phil.

Tartaric acid (87-69-4) Yes Yes No Yes

-----\Federal, State & International Regulations - Part 1\-----
-SARA 302- -SARA 313-
Ingredient RQ TPQ List Chemical Catg.

Tartaric acid (87-69-4) No No No No

-----\Federal, State & International Regulations - Part 2\-----
-RCRA- -TSCA
Ingredient CERCLA 261.33 8 (d)

Tartaric acid (87-69-4) No No No

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Chemical Weapons Convention: No TSCA 12(b): No CDTA: No
SARA 311/312: Acute:No Chronic:No Fire: No Pressure:No
Reactivity: No (Pure / Solid)

Australian Hazchem Code: None allocated.

Poison Schedule: None allocated.

WHMIS: This SDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by the CPR.

SECTION 16: OTHER INFORMATION:

NFPA Ratings: Health: 0 Flammability: 1 Reactivity: 0

Label Hazard Warning: CAUTION! May cause irritation to skin and eyes.

Label Precautions: Avoid contact with eyes. Wash thoroughly after handling. Avoid breathing dust. Keep container closed. Use with adequate ventilation.

Label First Aid: In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.

Revision Information: SDS Revision Date: December 2021

Disclaimer: The Information provided herein is based on our knowledge and experience. This does not constitute any guarantee of product specifications. Compliance with the instructions contained in this text does not relieve the user of compliance with all legal regulations applicable. The use and application of our products is not in our control and therefore the responsibility of the buyer.

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