



Safety Data Sheet (S.D.S)

Tartaric Acid

Document Code and revision state	Related to A-SSHE-11 – Rev. 02
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Section 1 – Product Identification

- **Product Identification**

Name: Tartaric Acid

Chemical name / Other names: Calcium salt of 2,3-dihydroxibutanodioic acid; L-(+)-Tartaric Acid.

Chemical Family: organic salts (aliphatic)

Uses: Food and wine industries.

- **Manufacturer Identification**

Manufacturer: DERIVADOS VÍNICOS S.A

Address: Ruta Provincial 50 s/n – (5584) Palmira – Provincia de Mendoza

Country: Argentina

Site: Palmira – Mendoza

Phones: 54-263-4462668 / 4462669

Toxicological Emergencies: Centro de Investigaciones toxicológicas: 54-11-4613 1100

Section 2 – Hazards Identification

Classification of the substance

According to Regulation (EC) No 1272/2008:

Eye Dam. 1: Causes serious eye damage

Label elements

Pictogram:



GHS05: Corrosive

Signal word: **Danger**

Hazard Statement(s):

H318 Causes serious eye damage

Precautionary Statement(s):

P264: Wash skin thoroughly after handling.



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.
P337 + P313: If eye irritation persists. Get medical advice/ attention.

Contains:

L - (+) - Tartaric Acid

Section 3 – Composition and Information on Components

Chemical Name	CAS No.	CE No./ EINECS	E No.	%
Tartaric Acid	87-69-4	201-766-0	334	Over 99.8

Section 4 – First Aid

Skin: take off contaminated shoes and clothes. Wash thoroughly affected zone with warm water. Seek medical aid.

Eyes: check for the existence of contact lens. If so extract them. Rinse carefully with plenty of warm water for at least 15 minutes. Get medical attention.

Inhalation: remove injured to fresh air. Apply artificial breath in case of asphyxia. Supply oxygen if breathing difficulties.

Ingestion: Do not induce vomit except medical authorization. Do not attempt to give anything to drink to an unconscious injured. Get medical attention.

Section 5 – Fire-fighting Measures

Firefighting: for minor fires use dry chemicals powder. Otherwise utilize water mist or spray. Avoid the use of direct water jets.

Personal protection in fire fighting: Air assisted breathing equipment. Appropriate firemen clothes.

Flammability Conditions: combustible at high temperatures

Flash point: No information available

Auto ignition Temperature: No information available.

Flammability Limits: no data available

Products of combustion: CO (carbon monoxide) and CO₂ (carbon dioxide).

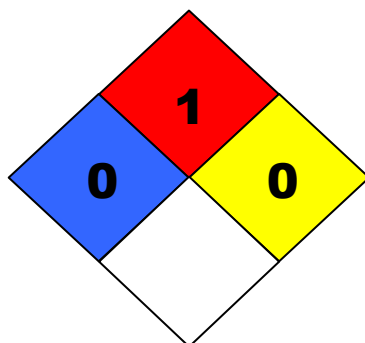
Fire hazards: slightly flammable if heated. Not flammable by shock.



Information for Firefighters

HEALTH	
4	Mortal
3	Extreme danger
2	Moderate danger
1	Slightly dangerous
0	Not dangerous

SPECIFIC RISKS	
Oxidant	OXY
Acid	ACID
Alkaline	ALK
Corrosive	COR
Do not use water	W
Radiation	☒



FIRE RISK	
Flash point	
4	Less than 22.8 °C
3	Less than 37.8 °C
2	Less than 93.3 °C
1	Over 93.3 °C
0	Non combustible

REACTIVITY	
4	Highly explosive
3	Moderately explosive
2	Violent Chemicals change
1	Unstable at high temp.
0	Stable

Section 6 – Measures to be Taken in Case of Accidental Pillage

Small spills: Sweep up and gather any rests of powder into a dedicated container. Identify them. Use appropriate tools. Wash the floor with water. Dispose of residues in accordance with local legislation.

Large spills: Stop spill if safe. Avoid contact with spillage and dust generation during sweep up. Use water mist or spray to reduce vapors. Avoid material reach sewages. Eliminate any ignition source. End washing floor. Dispose of residues in accordance with local legislation.

Section 7 – Handling and Storage

Handling: Handle in well ventilated areas far from heat and ignition sources. Avoid breathing dust. Wear personal protection equipment as described in section 8. If the handling area is not well ventilated wear appropriate respiratory equipment. If you feel unwell during handling, stop task and get medical aid. Avoid contact with skin and eyes. Keep containers away from antagonistic such as strong acids (hydrochloric, nitric, sulfuric).

Storage: storage in tightly closed containers, in well ventilated areas.

Section 8 – Exposure Controls / Personal Protection

Engineering: Ensure enough ventilation in handling and storage areas to avoid formation of explosive mixtures of dust. If necessary install forced air extraction. Eyewash stations and safety showers should be ready near the handle and storage points.



Personal protection elements: plastic apron, safety shoes, gloves, goggles, breathing mask with approved filters.

Personal protection equipment in large spills: whole safety suit, boots, gloves, eye protection: goggles. Air assisted breathing protection.

Exposure limits: no data available as specific substance. Max.: 0.000010 Kg/m³ as common dust (Argentine law). See regulations in section 11.

Section 9 – Physical and Chemicals Properties

Molecular Formula: Ca (COO-CHOH-CHOH-COO)

Molecular Weight: 188.15

Physical state and appearance: solid (powder)

Odor: inodorous

Taste: tasteless

Density: 1817 Kg/m³

Melting point: no data available.

Boiling point: no data available.

pH (aqueous solution): not applicable (slightly soluble in water)

Solubility: 0.4 Kg/m³ de agua (10°C); 2.0 Kg/m³ (80°C).

Section 10 – Stability and Reactivity

Stability: stable under ordinary temperature/pressure conditions.

Hazardous decomposition products: carbon monoxide, carbon dioxide and toxic fumes. Decomposition products may be toxic and may irritate respiratory tract.

Incompatibilities: strong acids such as hydrochloric, nitric or sulfuric.

Polymerization: will not occur

Section 11 – Toxicological Information

Toxicology in animals:

LD50: [Rats - Intravenous; Dose: 0.000485 Kg/Kg]

LC50: no data available

Special Observations in animal toxicology:

Lower lethal dose:

LDL [Rats - oral; Dose: 0.0070 Kg/Kg]

LDL [Rabbits] - oral; Dose: 0.0050 Kg/Kg

LDL [Dogs] - oral; Dose: 0.0050 Kg/Kg

Lethal Dose (50% death)

LD50 [Rats - Intravenous; Dose: 0.000385 Kg/Kg]

Chronic Effects on humans: No information about chronic effects has been issued.

Other toxicological effects: risky by skin contact, ingestion and inhalation.

Special observations on other toxic effects on humans:

Acute potential effects:

Skin: irritation

Eyes: irritation

Inhalation: Causes irritation of respiratory tract.

Ingestion: Causes irritation of gastrointestinal tract and nausea, vomits and diarrhea. May affect kidneys, blood and behavior (drowsiness, convulsions)



Chronic potential effects:

No information about chronic effects has been issued.

Section 12 – Eco-Toxicological Information

Ecotoxicity: no data has been issued about toxicity of this product on the environment.

BOD5 y COD: no data has been issued about toxicity of this product on the environment.

Biodegradation products: not likely to provoke biodegradation products in short term. However, they may arise in long term. If the product reaches confined waters, its degradation process will cause a rise of COD. The extent of this rise will depend on concentration.

Toxicology of biodegradation products: neither product nor its derivatives by degradation are toxic.

Section 13 – Information on the Disposal of Products

Waste disposal should comply with federal and local environmental regulations.

Section 14 – Transport Information

Legal Requirements

Trucks Transport (ADR / RID - Argentine Law 24.449 and Mercosur agreement)

Name of product: not listed

Intervention cards (for truck crashes or incidents in transportation)

Warning and risk labels.

DOT Classification (USA): not listed

Sea Transport (IMDG code)

Name of product: not listed

Risk label

Warning labels.

Air Transport (ICAO / IATA)

Name of product: not listed

Section 15 – Regulatory Information

Federal Regulations (USA): TSCA 8(b) inventory: L-tartaric acid

Other Regulations: no data available.

Other Classifications:

WHMIS (Canada): Class "E" corrosive solid (Canada).

DSCL (EEC): According to Regulation (EC) No 67/ 548/ EEC



R36/ R37/ R38 - Eye, skin and respiratory irritant.

S26 - In case of eye contact flush immediately with plenty of water. Get medical attention.

S36/ S37/ S39 - Wear adequate safety clothes, gloves, and face and eyes protection.

Irritant



Hazards:

National Fire Protection Association (U.S.A.):

Health: 0

Flammability: 1

Reactivity: 0

Section 16– Other Information

The information above is believed to be accurate and represents the best information currently available to Derivados Vínicos S.A. However, Derivados Vínicos S.A. makes no warranty, express or implied, with respect to such information, and assumes no liability resulting from its use.

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Glossary:

S.D.S.: Safety Data Sheet

CAS N°: Number identifying the product in Chemical Abstracts Service.

IMDG: International Maritime dangerous goods code

HMIS: Hazardous material identification system USA

WHMIS: Workplace hazardous material identification system (Canada)

DOT: Department of transportation (USA)

RTECS: Registry of toxic effects of Chemical substances.

TWA: Time weighted average

LD: Lethal dose.

LD50: Lethal dose for 50% of assayed animal population

COD: Chemical oxygen demand.

SRT: Superintendencia de riesgos del trabajo (Argentina)