

MATERIAL SAFETY DATA SHEET; TARTARIC ACID

SECTION 1: CHEMICAL AND COMPANY IDENTIFICATION

- **MSDS Name:** L - (+) – Tartaric acid, 99+%
L – (+) – Dihydrosuccinic acid
- **Company Identification:** Comercial Química Sarasa S.L.
Ctra. de Extremera km.2,5
Fuentidueña de Tajo
28597 MADRID
SPAIN
Tlf: +34.91.876.60.01

SECTION 2: COMPOSITION, INFORMATION ON INGREDIENTS

CAS #	Chemical Name	%	EINECS#
87-69-4	L – (+) – Tartaric acid	99+	201-766-0

Hazard Symbols: Xi

Risk Phrases: 36/37/38

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Appearance: white solid.

Caution! Causes eye and skin irritation. Causes digestive and respiratory tract irritation.

Target Organs: Respiratory system, teeth, eyes, skin.

Potential Health Effects

Eye: Causes eye irritation. Causes redness and pain.

Skin: Causes skin irritation.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhoea.

Inhalation: Dust is irritating to the respiratory tract.

Chronic: Repeated exposure may cause erosion of teeth.

SECTION 4: FIRST AID MEASURES

Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Get medical aid.

Skin:

Get medical aid if irritation develops or persists. Flush skin with plenty of soap and water.

Ingestion:

If victim is conscious and alert, give 2 – 4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid if irritation or symptoms occur.

Inhalation:

Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Notes to Physician:

Treat symptomatically and supportively.

SECTION 5: FIRE FIGHTING MEASURES

General Information:

As in any fire, wear a self – contained breathing apparatus in pressure – demand and full protective gear. This material in sufficient quantity and reduced particle size is capable of creating a dust explosion.

Extinguishing Media:

In case of fire use water spray, dry chemical, carbon dioxide, or chemical foam.

Autoignition Temperature:

425 deg C (797.00 deg F)

Flash Point:

210 deg C (410.00 deg F)

NFPA Rating:

Health - 0; flammability - 1; reactivity – 0

Explosion limits:

Lower: not available.

Upper: Not available.

SECTION 6: ACCIDENTAL RELEASE MEASURES

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills / Leaks:

Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions. Provide ventilation.

SECTION 7 HANDLING AND STORAGE

Handling:

Wash thoroughly after handling. Use with adequate ventilation. Avoid contact with skin and eyes. Avoid ingestion and inhalation.

Storage:

Store in a cool, dry place away from incompatible substances. Store in a tightly closed container.

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:

Good general ventilation should be sufficient to control airborne levels.

Exposure Limits

ACGIH	NIOSH	OSHA – Final PELs
None listed	None listed	None listed

OSHA Vacated PELs:

L – (+) – TARTARIC ACID: No OSHA Vacated PELs are listed.

Personal Protective Equipment:

Eyes:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<i>Molecular Formula:</i>	C ₄ H ₆ O ₆
<i>Molecular weight:</i>	150.09
<i>Physical State:</i>	Solid
<i>Appearance:</i>	White
<i>Odor:</i>	Odorless
<i>pH:</i>	2.1 in aqueous solution at 1%
<i>Vapor Pressure:</i>	< 0.1 mbar @ 20
<i>Freezing/Melting point:</i>	168 – 170 deg C

Decomposition temperature: > 220 deg C

Specific Rotation (aq. Solution 20%): $[\alpha]_D = +11.9 - +13.0$

Solubility: 1390 g/l (22° C)

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability:

Stable in closed containers under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials.

Incompatibilities with Other Materials:

Bases, oxidizing agents, reducing agents, silver.

Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide.

Hazardous Polymerization:

Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 87 – 69 – 4: WW7875000

LD50 / LC50: Not available.

Carcinogenicity: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Epidemiology: No data available

Teratogenicity: No data available

Reproductive Effects: No data available.

Neurotoxicity: No data available.

Mutagenicity: No data available.

Other Studies: Oral dog LDLo = 5 gm/kg

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

COD 425 mg O₂ / g ; BOD 350 mg O₂ / g; Biodegradable: 95%
after 3 days

Environmental Fate: Readily biodegradable. No bioaccumulation is to
be expected

Physical / Chemical: Not available.

Other: Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with state and local
regulations.

RCRA D-Series maximum concentration of contaminants: None
listed.

RCRA D-Series chronic toxicity reference levels: None listed.

RCRA F-Series: None listed

RCRA P-Series: None listed

RCRA U-Series: None listed.

Not listed as a material banned from land disposal according to
RCRA.

SECTION 14: TRANSPORT INFORMATION

US DOT: No information available

IMO (OMI) – IMDG code: Not regulated as hazardous material.

ICAO-TI – IATA-DGR: Not regulated as hazardous material.

RID / ADR / ADN: Not regulated as hazardous material.

Canadian TDG: No information available.

SECTION 15: REGULATORY INFORMATION

US FEDERAL REGULATIONS

TSCA:

CAS# 87-69-4 is listed on the TSCA inventory.

Health and Safety Reporting List

None of the chemicals are on the Health and Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals in this product are listed under TSCA Section 12b

TSCA Significant New Use Rule

None of chemicals in this material have a SNUR under TSCA.

SARA:

Section 302 (RQ / TPQ)

None of the chemicals in this product have an RQ / TPQ.

SARA Codes

CAS# 87-69-4: acute

Section 313

No chemicals are reportable under section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

EUROPEAN / INTERNATIONAL REGULATIONS

European labeling in accordance with EC Directives.

Hazard Symbols: XI

Risk phrases: R 36/37/38 Irritating to eyes, respiratory system and skin.

Safety phrases:

S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 37/39: Wear suitable gloves and eye / face protection.

WGK (Water danger / Protection)

CAS# 87-69-4: 0

CANADA

CAS# 87-69-4 is listed on Canada's DSL / NDSL List

WHMIS: Not available

CAS# 87-69-4 is not listed on Canada's Ingredient Disclosure List.

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SECTION 16: ADDITIONAL INFORMATION

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