

TARTARIC ACID 50% SOLUTION

Safety Data Sheet

1. Product Identification of the Substance and of the Company

1.1 Product Identifier Name of the substance: L(+) Tartaric Acid

1.2 Relevant Identified uses of the Substance and Uses Advised Against:

Relevant Identified Uses: Acidifier, antioxidant, flavor enhancer and stabilizing agent. Food industry (production of tinned food, jam, jelly, confectionery and biscuits in general, soft drinks and table waters; acidifier in wine-making field). Pharmaceutical and Cosmetic Industry (preparation of medicines, effervescent tablets and soluble drubs; excipient and acidifier in syrups and antibiotics; production of natural beauty cream for face and body) and Technical (retarding agent in the preparation of gypsum, used in the formulation of waterproof cements and heat-insulator; it is also used in textiles, tannings, ceramics, galvanoplastics and cleaning agents).

1.3 Details of the Supplier of the Safety Data Sheet:

Supplier: American Tartaric Products Inc.
2 Madison Ave
Larchmont, NY 10538 USA
Telephone: 914-834-1881
Fax: 914-834-4611
www.atpgroup.com

1.4 Emergency Telephone Number: 800-424-9300 - CHEMTREC (24/7) - within USA & Canada
+1 703-527-3887 - CHEMTREC (24/7) - International & Maritime
914-834-1881 - ATPGroup Inc.

2. Hazards Identification

2.1 Classification of the substance

Classification pursuant to EC REG. No. 1272/2008

GHS05: Corrosion

H318: Causes serious eye damage

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.

Classification pursuant to REG. 67/548/EEC, 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

Hazard Pictograms



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: No information available.

3. Composition/Information on Ingredients

Identification on the label/Trade name:	(+) Tartaric Acid
Synonyms:	d-Tartaric Acid; 2,3-dihydroxbutanedioic acid
Additional identification:	Not Available
Identification of the product:	CAS No.: 87-69-4 EC# 201-766-0
Index Number:	Not Available
Molecular weight:	150.09
Chemical Formula:	HOOC(CH ₂ O) ₂ COOH

Chemical Name	CAS No.	Concentration
(+) Tartaric Acid	87-69-4	50%
Water	N/A	50%

4. First Aid Measures

4.1 First Aid measures Description

Inhalation: Remove victim from exposure and to open air. Seek medical advice, if necessary.

Skin Contact: Wash off with soap and plenty of water. Take off contaminated garments. If skin irritation persists, consult a specialist.

Eye Contact: Rinse immediately with running water with eyelids held open, for at least 10 minutes. Call an eye specialist, if necessary.

Ingestion: Make the victim drink plenty of water. Call a doctor, if necessary.

4.2 Main Symptoms and Effects, both acute and delayed: Irritating effects.

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed: Call a doctor in case of exposure.

5. Fire Fighting Measures

5.1 Extinguishing Media

Suitable extinguishing media: Water, CO₂, Foam, Powder.

Extinguishing media not used: No limits.

5.2 Special Hazards Arising from the Substance

Fire: In case of fire, gas and hazardous vapours may be formed.

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.

6. Accidental Release Measures

6.1 Personal Precautions, Protection Devices and Procedures in Case of Emergency

Non-Emergency Personnel: avoid breathing the dust and contact with eyes, leave the contaminated area. Wear suitable protective equipment (see section 8).

Emergency personnel: ventilate area, wear appropriate protective equipment (see section 8) avoid breathing the dust and contact with eyes.

6.2 Environmental Precautions

Do not let product enter 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 water cleaner) for reclamation or disposal in accordance with local rules. Flush area with water.

6.4 Reference to Other Sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

7. Handling and Storage

7.1 Precautions for Safe Handling

Avoid contact with eyes and skin, using suitable protective equipment. Avoid inhalation and ingestion. Handle in accordance with good industrial hygiene practice and any legal requirements. Ensure adequate ventilation, especially in confined areas. Wash hands after use. Minimize dust generation and accumulation.

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/ignition, moisture, direct sunlight, extreme cold, 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 paragraph 1.2

8. Exposure Controls/Personal Protection

8.1 Control Parameters

DN(M)ELs for workers

Exposure Pattern	Route	Descriptor	DNEL / DMEL	(Corrected) Dose Descriptor
Long term – Systemic Effects	Dermal	DNEL (Derived No Effect Level)	2.9 mg/kg bw/day	NOAEL: 145 mg/kg bw/day (based on AF of 50)
Long Term – Systemic Effects	Inhalation	DNEL (Derived No Effect Level)	5.2 mg/m ³	NOAEC: 260.3 mg/ m ³

DN(M)ELs for the general population

Exposure Pattern	Route	Descriptor	DNEL / DMEL	(Corrected) Dose Descriptor
Long term – Systemic Effects	Dermal	DNEL (Derived No Effect Level)	1.5 mg/kg bw/day	NOAEL: 150 mg/kg bw/day (based on AF of 100)
Long term – Systemic Effects	Inhalation	DNEL (Derived No Effect Level)	1.3 mg/ m ³	NOAEC: 130 mg/ m ³ (based on AF of 100)
Long term – Systemic Effects	Oral	DNEL (Derived No Effect Level)	8.1 mg/kg bw/day	NOAEL: 810 mg/kg bw/day (based on AF of 100)

8.2 Exposure Controls

8.2.1. Suitable technical controls: Ensure adequate ventilation, especially in confined areas.

8.2.2. Personal Protection measures: Protective clothing should be selected specifically for the working place and type of work. Take off any contaminated garments. It is advisable to apply protective cream for the skin. Wash hands after handling this substance.

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-facepiece dust/mist respirator may be worn up to 0 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 (ref. EN 374) and clean body-covering clothing.

Eyed Protection: Use chemical safety goggles with side shields (ref. EN 166). 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 contaminants.

8.2.3. Environment exposure controls: Do not pour waste waters directly into the environment.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

- PHYSICAL FORM.....: Liquid
- COLOR.....: Clear
- ODOR.....: Essentially odorless to very slight sugar odor
- MELTING/FREEZING POINT.....: Not Established
- VISCOSITY.....: Not Established
- SOLUBILITY IN WATER: Completely miscible
- SOLUBILITY (NON AQUEOUS).....: Methyl alcohol: completely miscible
- SPECIFIC GRAVITY: 10.5 lb/gallon at 59 F (15 C)
- BULK DENSITY.....: Not Established



% VOLATILE BY VOLUME.....: 50%
 EVAPORATION RATE: Less than 1 (Butyl acetate = 1)
 VAPOR PRESSURE: 16 mmHg at 68 F (20 C)
 VAPOR DENSITY: 0.62 (Air = 1)

10. Stability and Reactivity

- 10.1 Reactivity:** The substance is not reactive under recommended use and storage.
- 10.2 Chemical Stability:** Stable at room temperature in closed containers under normal storage and handling conditions.
- 10.3 Possibility of hazardous reactions:** No dangerous reactions known.
- 10.4 Conditions to avoid:** Heat, flames, ignition sources and incompatibles.
- 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.

11. Toxicological Information

11.1 Information on Toxicological Effects

Acute Toxicity: Oral: LD50: > 200 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
 Aspiration Hazard: Negative
 Information on Likely Routes of Exposure: Inhalation, Ingestion, and Eye/Skin Contact.

-----\Cancer Lists\-----

---NTP Carcinogen---

Ingredient	Known	Anticipated	IARC Category
Tartaric Acid (87-69-4)	NO	NO	None

12. Ecological Information

Toxicity: No information available

Persistence and Degradability: Biodegradation in water: readily biodegradable. Substance is expected to degrade readily in sewage treatment plants.

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

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



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

13. Disposal Considerations

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.

14. Transport Information

Not regulated. Not a Hazardous Material

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	

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: No information found.

Poison Schedule: No information found.

WHMIS:

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

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 July 15, 2015

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.