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-dihydroxybutanedioic 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(CH2O)2COOH

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>(+) Tartaric Acid</td>
<td>87-69-4</td>
<td>50%</td>
</tr>
<tr>
<td>Water</td>
<td>N/A</td>
<td>50%</td>
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</tbody>
</table>

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**

<table>
<thead>
<tr>
<th>Exposure Pattern</th>
<th>Route</th>
<th>Descriptor</th>
<th>DNEL / DMEL (Corrected) Dose Descriptor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Long term – Systemic Effects</td>
<td>Dermal</td>
<td>DNEL (Derived No Effect Level)</td>
<td>2.9 mg/kg bw/day NOAEL: 145 mg/kg bw/day (based on AF of 50)</td>
</tr>
<tr>
<td>Long Term – Systemic Effects</td>
<td>Inhalation</td>
<td>DNEL (Derived No Effect Level)</td>
<td>5.2 mg/m³ NOAEC: 260.3 mg/ m³</td>
</tr>
</tbody>
</table>

**DN(M)ELs for the general population**

<table>
<thead>
<tr>
<th>Exposure Pattern</th>
<th>Route</th>
<th>Descriptor</th>
<th>DNEL / DMEL (Corrected) Dose Descriptor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Long term – Systemic Effects</td>
<td>Dermal</td>
<td>DNEL (Derived No Effect Level)</td>
<td>1.5 mg/kg bw/day NOAEL: 150 mg/kg bw/day (based on AF of 100)</td>
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<tr>
<td>Long term – Systemic Effects</td>
<td>Inhalation</td>
<td>DNEL (Derived No Effect Level)</td>
<td>1.3 mg/ m³ NOAEC: 130 mg/ m³ (based on AF of 100)</td>
</tr>
<tr>
<td>Long term – Systemic Effects</td>
<td>Oral</td>
<td>DNEL (Derived No Effect Level)</td>
<td>8.1 mg/kg bw/day NOAEL: 810 mg/kg bw/day (based on AF of 100)</td>
</tr>
</tbody>
</table>

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-supplied 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

**VIS COSITY:** 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.

---NTP Carcinogen---

<table>
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<tr>
<th>Ingredient</th>
<th>Known</th>
<th>Anticipated</th>
<th>IARC Category</th>
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<tbody>
<tr>
<td>Tartaric Acid (87-69-4)</td>
<td>NO</td>
<td>NO</td>
<td>None</td>
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</table>

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

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<tr>
<th>Ingredient</th>
<th>TSCA</th>
<th>EC</th>
<th>Japan</th>
<th>Australia</th>
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<table>
<thead>
<tr>
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<th>SARA 302</th>
<th>SARA 313</th>
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<tbody>
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<thead>
<tr>
<th>Ingredient</th>
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<th>TSCA 12(b)</th>
<th>CDTA</th>
<th>SARA 311/312</th>
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<th>Chronic</th>
<th>Fire</th>
<th>Pressure</th>
<th>Reactivity</th>
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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: 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.
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
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