



SAFETY DATA SHEET

Effective Date: 01/01/2016

1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER



Product trade name	LTA500
Chemical name	L-(+)-Tartaric acid 500 g/l, aqueous solution
Chemical formula	C ₄ H ₆ O ₆ (Tartaric acid)
Synonyms	(2R,3R)-2,3-dihydroxysuccinic acid; L-threonic acid; (2R,3R)-2,3-dihydroxybutanedioic acid (IUPAC name)
Product description	Natural tartaric acid in liquid form, produced from sediments obtained as a by-product of the wine industry. L-(+)-Tartaric acid is the fruit acid characteristic of grapes (<i>Vitis Vinifera</i>).
CAS number	87-69-4 (L-(+)-Tartaric acid)
EC number	201-766-0 (L-(+)-Tartaric acid)
Product use	Oenological use: LTA500 is added to grapes or must as an acidulant.
Company identification	Brenn-O-Kem (Pty) Ltd Off the R46 road between Wolseley and Ceres Wolseley 6830 Western Cape South Africa Tel: +27 (0)23 231 1060 Fax: +27 (0)23 231 0954
Emergency phone number	+27 (0)23 231 1060 (Monday – Friday, 7:30 a.m. – 5:00 p.m.)

2. HAZARDS IDENTIFICATION

HEALTH HAZARDS

Classification of the substance or mixture

Skin corrosion/irritation (Category 2)
Serious eye damage/eye irritation (Category 1)

Label elements	Skin corrosion/irritation	<p>Hazard category: 2</p> <p>Pictogram: GHS07 Exclamation mark</p>  <p>Signal word: Warning</p> <p>Hazard statement: H315 Causes skin irritation</p> <p>Precautionary statements: P264: Wash hands thoroughly after handling. P280: Wear protective gloves/protective clothing/eye protection/face protection. P302+352: IF ON SKIN: Wash with plenty water</p>
	Serious eye damage / eye irritation	<p>Hazard category: 1</p>  <p>Pictogram: GHS05 Corrosion</p> <p>Signal word: Danger</p> <p>Hazard statement: H318 Causes serious eye damage</p> <p>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. P310: Immediately call doctor or other medical personnel</p>
Hazards not classified	May cause irritation in case of skin contact, of eye contact, of ingestion, of inhalation.	

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization	Mixture			
Composition	Ingredient	Chemical Formula	Molecular Weight g/mol	Weight %
	L-(+)-Tartaric acid	C ₄ H ₆ O ₆	150.09	Min 41.4
	Water	H ₂ O	18.01	Max 58.6

4. FIRST-AID MEASURES

Eye contact	Check for and remove any contact lenses. Flush the eyes, kept open, with copious amounts of running water for at least 15 minutes. Consult a physician, especially if there are symptoms of eye irritation and/or pain.
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Skin contact	Wash with soap and water. Get medical attention if irritation develops.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.

5. FIRE-FIGHTING MEASURES

General information	Move all people away and stay upwind of the fire. Do not enter closed rooms without adequate protection.
Suitable extinguishing media	The choice of extinguishing media should consider the other materials involved in the fire.
Specific hazards arising from the chemical	Decomposes on heating and may produce toxic fumes of carbon monoxide (CO) and carbon dioxide (CO ₂).
Special protective actions for fire-fighters	Use protective gear and breathing apparatus appropriate for the surrounding fire.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear appropriate personal protective equipment (see section 8).
Environmental precautions	Avoid release to the environment. Collect spillage. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution. Dispose of contents/container in accordance with local/regional/national/international regulations.
Methods for cleaning up	Remove large spills using inert absorbent material if needed. Contain with suitable absorbent material. Collect into marked containers for disposal. Flush small residues away with water. The material must be disposed in accordance with local and national regulations.

7. HANDLING AND STORAGE

Handling	Avoid ingestion, inhalation, skin and eye contact. Wash hands after use.
Storage	Keep container closed when not in use. Store in a cool, dry, well-ventilated area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits	Not listed in Annexure 1 of Hazardous Chemical Substances Regulations, 1995, issued under the Occupational Health and Safety Act (Act No. 85 of 1993)
Engineering controls	Facility should be equipped with eyewash station and safety shower. Ensure adequate ventilation.
Hand protection	Wear protective gloves.
Eye protection	Wear tightly fitting safety goggles.



Skin and body protection	Wear appropriate protective clothing to prevent skin exposure.
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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid
Colour	Clear, colourless to slightly yellow/green
Odour	Acidic
Melting point/ freezing point	Not available
Boiling point	Not available
Flammability	Not available
Lower and upper explosion limit/ flammability limit	Not available
Flash point	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
pH	~ 1
Kinematic viscosity	Not available
Solubility in water	Miscible
Partition coefficient (n-octanol/water)	Not available
Vapour pressure	Not available
Relative vapour density	Not available
Specific Gravity @ 20°C	1.2

10. STABILITY AND REACTIVITY

Reactivity	Highly reactive with oxidizing agents.
Chemical stability	Stable at ambient temperature in closed containers under normal storage and handling conditions.
Conditions to avoid	Incompatibles, heat, flames, ignition sources.
Incompatible materials	Fluorine, silver, metals, oxidizing agents, reducing agents, bases.
Hazardous decomposition products	Carbon monoxide and carbon dioxide may form when heated to decomposition.



11. TOXICOLOGICAL INFORMATION

Routes of exposure	Inhalation, ingestion, skin and eye contact
Symptoms related to the physical, chemical and toxicological characteristics	Eye: Irritant. Exposure may result in lacrimation, irritation, pain and redness. Inhalation: Irritant. Over exposure may result in mucous membrane irritation of the nose and throat with coughing. Skin: Irritant. Prolonged contact may result in irritation, itching and possible skin rash. Ingestion: Low toxicity. Ingestion may result in gastrointestinal irritation.
Delayed and immediate effects and also chronic effects from short and long term exposure	No relevant information available
Numerical measures of toxicity	LD50: Not available LC50: Not available
RTECS number	WW7875000 (Tartaric acid)

12. ECOLOGICAL INFORMATION

Ecotoxicity	No relevant information available
Persistence and degradability	No relevant information available
Bioaccumulative potential	No relevant information available
Mobility in soil	No relevant information available
Other adverse effects	Ensure appropriate measures are taken to prevent this product from entering the environment.

13. DISPOSAL CONSIDERATION

Dispose of in accordance with relevant local/regional/national/international regulations or contact Brenn-O-Kem.

14. TRANSPORT INFO

UN number	None allocated
UN proper shipping name	Not regulated for transport
Transport hazard class(es)	Not regulated
Packing group	Not regulated
Environmental hazard	Not applicable
Transport in bulk according to IMO instruments	Not applicable
Special precautions	Transport in sealed containers

15. REGULATORY INFORMATION

Hazardous Chemical Substances Regulations, 1995, issued under the Occupational Health and Safety Act (Act No. 85 of 1993).

Hazards identification according to GHS (Globally Harmonized System of Classification and Labelling of Chemicals).

16. OTHER INFORMATION

DISCLAIMER: This information is presented in good faith, based on current knowledge and is intended to describe the product for the purpose of health and safety requirements only. It should not, therefore, in itself be construed as a guarantee of any special quality relating to the product. The above-named supplier does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. No warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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Abbreviations and acronyms:

CAS: Chemical Abstracts Service (division of the American Chemical Society)

EC: European Community

IMO: International Maritime Organization

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

RTECS: Registry of Toxic Effects of Chemical Substances

UN: United Nations