

Safety Data Sheet

1. IDENTIFICATION

Product Name:	L-Tartaric Acid
Other Names:	-
Recommended Use:	Used as an acidulant of beverages and other foods. L(+)-Tartaric acid can be used for gypsum production.
Supplier:	Global Chemie ASCC Limited
Street Address:	88/123 Moo 2 Bangpoo Industrial Estate (North), Phraek Sa Mai, Mueang Samutprakan, Samutprakan 10280
Telephone:	+66 2324 6888
Fax:	+66 2324 6898-99
Emergency phone:	+66 2324 6888 ext.320

2. HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS).

Hazardous Classification

No data available.

Hazardous Statement

Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2A

Specific target organ toxicity after single exposure Category 3

GHS Pictograms



Hazard Statements

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

Precautionary Statements

P261: Avoid breathing dust/fume/ gas/mist/vapors/spray

P264: Wash thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response Statements

If on skin

P302 + P352: If on skin: Wash with plenty of water.

P362: Take off contaminated clothing and wash contaminated clothing before reuse.

P332 + P313: If skin irritation occurs: Get medical advice/attention.

If inhaled

P304 + P340: If inhaled: Remove person to fresh air and keep comfortable for breathing.

If in eye

P305 + P351 + P338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312: Call a poison center /doctor if you feel unwell.

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

If swallowed

No data available.

Storage Statements

P233: Keep container tightly closed.

P403: Store in a well-ventilated place.

P405: Store locked up.

Disposal Statements

P501: Dispose of contents/container in corroding with local regulation.

Signal Word: Warning

3. COMPOSITION: Information on Ingredients

Chemical Ingredient	CAS No.	UN No.	Proportion (%w/w)
L-Tartaric Acid	87-69-4	-	100

Molecular Formula: $C_4H_6O_6$

Molecular weight: 150.09 g/mol

4. FIRST AID MEASURES

For advice, contact Ramathibodi Poison Center (Phone: 1367) or a doctor.

Ingestion

If swallowed, give several glasses of water to drink to dilute. If large amounts were swallowed or symptoms occur, get medical advice.

Eye Contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician if irritation persists.

Skin Contact

Wash exposed area with soap and water. Get medical advice for irritation developments.

Inhalation

Remove to fresh air. Get medical attention for any breathing difficulty.

Immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE FIGHTING MEASURES**Extinguishing media**

Suitable extinguishing media: Water spray, dry chemical, foam.

Unsuitable extinguishing media: No data available.

Special hazards arising combustion: Hazardous combustion gases or vapors

Firefighting equipment/instructions: Wear self-contained breathing apparatus (positive pressure, if available) and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES.

Personal precautions, protective equipment and emergency procedures

Remove ignition sources. Provide adequate ventilation. Avoid inhalation of vapor or dust. Avoid skin and eye contact. Wear protective gloves/protective clothing/eye protection/face protection. For personal protection see section 8.

Environmental precautions

Do not allow material to be released to the environment without proper governmental permits.

Methods of cleaning up

Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

7. HANDLING AND STORAGE

Precautions for safe handling

Wash thoroughly after handling it. Use with adequate ventilation. Avoid breathing dust, vapor, mist, or gas. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Store protected from light.

Conditions for safe storage

Store in a cool, dry, ventilated area. Protect against physical damage. Isolate from any source of heat or ignition.

8. EXPOSURE CONTROLS: PERSONAL PROTECTION

Control parameters

Exposure limits:

Ingredient	TEEL-1	TEEL-2	TEEL-3	Original IDLH	Revised IDLH
L-Tartaric Acid	1.6 mg/m ³	17 mg/m ³	100 mg/m ³	No data available	No data available

Engineering controls

Facilities sourcing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentration low.

Individual protection measures (PPE)

Respiratory protection: In case of dust. Wear suitable respiratory equipment.

Eyes contact: Wear appropriate protective eyeglasses.

Hand and Skin Protection: Wear appropriate protective gloves. Wear appropriate protective clothing to prevent skin exposure.

General hygiene considerations

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Unit of Measurement	Typical Value
Appearance	-	White Solid/Particle
Odour	-	Odorless
pH	-	2.2
Boiling point	°C	158-158.5
Melting point	°C	200-206
Flash point	°C	No data available
Flammability	-	Non-combustible

Property	Unit of Measurement	Typical Value
Autoignition Temperature	°C	No data available
Decomposition Temperature	°C	No data available
Lower/Upper Flammability Limits	%V	No data available
Density	g/cm ³	No data available
Specific Gravity	-	1.76
Viscosity @ 25°C	cps	No data available
Vapor pressure	mbar	No data available
Vapor density	kPa (Air = 1)	No data available
Evaporation Rate	(n-Butyl acetate = 1)	No data available
Water Solubility	g/L	No data available
Solubility in other solvents Partition coefficient (Log Pow)	(n-octanol/water)	1.43
Coefficient of Thermal Expansion	per Deg C	No data available
Particle Characteristics	-	No data available

The values listed are indicative of this product’s physical and chemical properties. For a full product specification, please consult the Product Data Sheet.

10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

Material is stable under normal conditions.

Possibility of hazardous reactions

No dangerous reactions known.

Conditions to avoid

Incompatible materials. Dust, excessive heat.

Incompatible materials

Reactive with oxidizing agents, reducing agents, alkalis.

Hazardous decomposition products

When ignited it gradually decomposes emitting an odour resembling that of burning sugar.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

LD50(Oral, Mouse): 4360mg/kg

LD50(Dermal, Rabbit): Not available

LC50(Inhalation, Rat): Not available

Skin corrosion/Irritation: Causes skin irritation.

Serious eye damage/irritation: Causes serious eye irritation.

Respiratory or skin sensitization: Not classified

Mutagenicity: Not classified as a mutagen.

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

STOT – single exposure: May cause respiratory irritation.

STOT - repeated exposure: No data available.

Aspiration hazard: Not classified

12. ECOLOGICAL INFORMATION

Toxicity

Acute Toxic		Time	Species	Method	Evaluation	Remarks
LC50	150 mg/L	96h	Fish	OECD	na	na
EC50	230 mg/L	48h	Daphnia	OECD	na	na
EC50	na	72h	Algae	OECD	na	na

Persistence and degradability: No data available.

Chronic toxicity: No data available.

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

Results of PBT and vPvB assessment: No data available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of contents/container in accordance with local/regional/national/international regulations.

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

Road and Rail Transport		Marine Transport		Air Transport	
UN. Number	Not Regulated	UN. Number	Not Regulated	UN. Number	Not Regulated
Class/Item	Not Regulated	Class/Item	Not Regulated	Class/Item	Not Regulated
Hazard Symbol	Not Regulated	Hazard Symbol	Not Regulated	Hazard Symbol	Not Regulated
Proper Shipping Name	Not Regulated	Proper Shipping Name	Not Regulated	Proper Shipping Name	Not Regulated
Packing Group	Not Regulated	Packing Group	Not Regulated	Packing Group	Not Regulated
		Marine Pollutant	No		

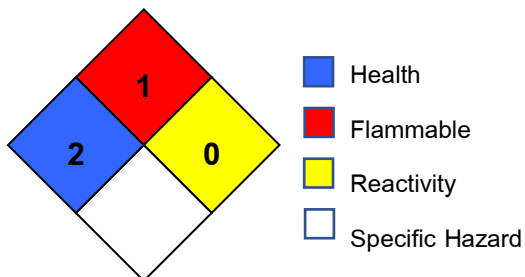
15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific to the substance or mixture:

L-Tartaric Acid (87-69-4) is found on the following regulatory lists: US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory" List.

16. OTHER INFORMATION

National Fire Protection Association (USA) :



SDS Distribution : The information contained herein is based on our current knowledge of the underlying data and is intended to describe the product for the purpose of health, safety and environmental requirements only. No warranty of guarantee is expressed or implied regarding the accuracy of these data or the results to be obtained from the use of the product.

Prepared By : Quality Control Department / Global Chemie ASCC Limited.

Abbreviations:

ACGIH: American Conference of Governmental Industrial Hygienists

CAS #: Chemical Abstract Service number - used to uniquely identify chemical compounds CNS Central Nervous System

EC No.: EC No - European Community Number

LC50: Lethal Concentration, 50% / Median Lethal Concentration

LD50: Lethal Dose, 50% / Median Lethal Dose

mg/m³: Milligrams per Cubic Metre OEL Occupational Exposure Limit

pH: relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).

PPM: Parts Per Million

STEL: Short-Term Exposure Limit

STOT-RE: Specific target organ toxicity (repeated exposure) STOT-SE Specific target organ toxicity (single exposure)

SUSMP: Standard for the Uniform Scheduling of Medicines and Poisons SWA Safe Work Australia

TLV: Threshold Limit Value

TWA: Time Weighted Average

References:

- Supplier Material Safety Data Sheets.

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product. No warranty and guarantee are expressed or implied regarding the accuracy of these data or the results to be obtained from the use of the product for further information, please contact Global Chemie ASCC Limited.