

Safety Data Sheet

Natural Tartaric Acid - Liquid

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name: Natural Tartaric Acid - Liquid
Chemical Name: -
Synonyms: L-2,3 dihydroxybutanedioic Acid
Proper shipping name: Natural Tartaric Acid
Chemical formula: C₄H₆O₆
CAS number: 87-69-4
Use(s): Food and Beverage Industries

Supplier of the Safety Data Sheet

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2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA

NOT CLASSIFIED AS A DANGEROUS GOOD ACCORDING TO ADGC CRITERIA

UN No.	None Allocated	DG Class	None Allocated	Subsidiary Risk(s)	None Allocated
Pkg Group	None Allocated	Hazchem Code	None Allocated	EPG	None Allocated

GHS Classification Eye Irritant. (Cat 2)
Skin irritation (Cat 2)
Specific target organ toxicity - single exposure (Resp. Irr.) (Cat 3)



Health Hazards

Signal Word WARNING

Hazard statements H315 - Causes skin irritation
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation

Precautionary Statements

Prevention P261 - Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response P301 + P312 IF SWALLOWED: Call POISON CENTER or doctor/ physician if you feel unwell
P303 + P352 IF ON SKIN (or hair): Wash with plenty of water and soap.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/attention.

Storage P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

Disposal P501 - Dispose of contents/container to hazardous or special waste collection point

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Formula	CAS No.	Content
TARTARIC ACID	C ₄ H ₆ O ₆	87-69-4	45 - 55%
WATER	H ₂ O	7732-18-5	45 - 55%

4. FIRST AID MEASURES

Eye Wash out immediately with fresh running water.
Ensure complete irrigation of the eye.
Seek medical attention without delay; if pain persists or recurs seek medical attention.

Skin Immediately remove all contaminated clothing, including footwear.
Flush skin and hair with running water (and soap if available).
Seek medical attention in event of irritation.

Inhalation If fumes or combustion products are inhaled remove from contaminated area.

Ingestion If swallowed do NOT induce vomiting.
If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.
Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.
Seek medical advice.

Advice to Doctor Treat symptomatically

5. FIREFIGHTING MEASURES

Flammability The product contains a substantial proportion of water; therefore there are no restrictions on the type of extinguishing media which may be used.
Choice of extinguishing media should take into account surrounding areas.
Evaporation of water from the mixture, caused by the heat of nearby fire, may produce floating layers of combustible



substances.

In such an event consider:

- foam.
- dry chemical powder.
- carbon dioxide.

Fire and Explosion The material is not readily combustible under normal conditions; however, it will break down under fire conditions and the organic component may burn.
Not considered to be a significant fire risk.
Heat may cause expansion or decomposition with violent rupture of containers.
Decomposes on heating and may produce toxic fumes of carbon monoxide (CO).
May emit acrid smoke.
Decomposes on heating and produces toxic fumes of: carbon dioxide (CO₂),

Extinguishing Evaporation of water from the mixture, caused by the heat of nearby fire, may produce floating layers of combustible substances.
In such an event consider:

- foam.
- dry chemical powder.
- carbon dioxide.

Hazchem Code None Allocated

6. ACCIDENTAL RELEASE MEASURES

Spillage Clean up all spills immediately.
Avoid breathing vapours and contact with skin and eyes.
Control personal contact by using protective equipment.
Contain and absorb spill with sand, earth, inert material or vermiculite.
Wipe up.
Collect solid residues and place in a suitable, labelled container for waste disposal.

7. STORAGE AND HANDLING

Storage Store in cool, dry, well ventilated area, removed from oxidising agents and food stuffs.
Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Check regularly for leaks or spills.

Handling Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards No exposure standard(s) allocated.

Biological Limit Values No biological limit allocated.

Engineering Controls Ensure adequate natural ventilation.

PPE Wear dust-proof goggles and rubber or PVC gloves. When using large quantities or where heavy contamination is likely wear coveralls.
Where an inhalation risk exists, wear a Class P1 (particulate) respirator

9. PHYSICAL AND CHEMICAL PROPERTIES



Appearance	CLEAR COLOURLESS LIQUID	Solubility (water)	MISCIBLE
Odour	ODOURLESS	Specific Gravity	1.21
pH	ACIDIC	% Volatiles	NOT AVAILABLE
Vapour Pressure	NOT AVAILABLE	Flammability	NOT APPLICABLE
Vapour Density	NOT AVAILABLE	Flash Point	NOT APPLICABLE
Boiling Point	NOT AVAILABLE	Upper Explosion Limit	NOT AVAILABLE
Melting Point	NOT AVAILABLE	Lower Explosion Limit	NOT AVAILABLE
Evaporation Rate	NOT AVAILABLE	Auto ignition Temperature	NOT AVAILABLE

10. STABILITY AND REACTIVITY

Material to Avoid Incompatible with oxidising agents (e.g., peroxides). Also incompatible with alkalis.

Decomposition May evolve toxic gases (carbon oxides, hydrocarbons) if heated to decomposition.

11. TOXICOLOGICAL INFORMATION

Health Hazard Summary Low Toxicity - irritant. This product may present a hazard with eye contact, prolonged or repeated skin contact or with fume inhalation at high levels. Use safe work practices to avoid eye or skin contact and fume inhalation.

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, however due to product form, ingestion is considered highly unlikely. Maintain good personal hygiene standards.

Toxicity Data Dermal (rat) LD50: >2000 mg/kg
Oral (rat) LD50: >=2000 mg/kg

12. ECOLOGICAL INFORMATION

Environment Ensure appropriate measures are taken to prevent this product from entering the environment.

Persistence: Air	LOW
Bioaccumulation	LOW
Mobility	HIGH

13. DISPOSAL CONSIDERATIONS

Waste Disposal dispose via specifically licenced waste processor to accept chemical and / or pharmaceutical wastes or incineration in a licenced apparatus.

Legislation Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS: ADG7, UN, IATA, IMDG

Land Transport UNDG

Shipping Name	Natural Tartaric Acid				
UN No.	None allocated	DG Class	None Allocated	Subsidiary Risk(s)	None Allocated
Pkg Group	None Allocated	Hazchem Code	None Allocated	EPG	None Allocated

15. REGULATORY INFORMATION

Poison Schedule None.

AICS Tartaric acid is listed on the Australian Inventory of Chemical Substances.

Water is found on the Australia Inventory of Chemical Substances.

16. OTHER INFORMATION

Additional Information ABBREVIATIONS:
mg/m³ - Milligrams per cubic metre
ppm - Parts Per Million
TWA/ES - Time Weighted Average or Exposure Standard.
NOS - Not Otherwise Specified
pH - relates to hydrogen ion concentration - this value will relate to a scale of 0 - 14, where 0 is highly acidic and 14 is highly alkaline.
CAS# - Chemical Abstract Service number - to uniquely identify chemical compounds.
IARC - International Agency for Research on Cancer.
ADGC – Australian Dangerous Goods Code
NOHSC – National Occupational Health and Safety Commission

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a Chem Alert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

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End of Report

