

**Safety Data Sheet**Issue Date: 1<sup>st</sup> June 2016PRODUCT NAME: **LIQUID L (+) TARTARIC ACID (NATURAL)****1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

**Product name:** L (+) TARTARIC ACID (NATURAL)  
**Chemical Name:** -  
**Synonyms:** Dextrotartaricacid' L-2,3dihydroxybutanedioic Acid  
**Proper shipping name:** -  
**Chemical formula:** C4H6O6  
**CAS number:** 87-69-4  
**Use(s):** Food and Beverage Industries,

**Supplier of the Safety Data Sheet**

**Supplier Name:** TARAC TECHNOLOGIES PTY LTD  
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**2. HAZARDS IDENTIFICATION**

**CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA**  
**NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE**

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

**GHS Classification** Eye Irritant. (Cat 2)  
Skin irritation (Category 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

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## 3. COMPOSITION / INFORMATION ON INGREDIENTS

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Ingredient	Formula	CAS No.	Content
TARTARIC ACID	C4-H6-O6	87-69-4	45 - 55%
WATER	H2O	7732-18-5	45 - 55%

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## 4. FIRST AID MEASURES

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<b>Eye</b>	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.
<b>Skin</b>	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
<b>Inhalation</b>	If fumes or combustion products are inhaled remove from contaminated area.
<b>Ingestion</b>	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
<b>Advice to Doctor</b>	Treat symptomatically

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## 5. FIRE FIGHTING MEASURES

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<b>Flammability</b>	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: <ul style="list-style-type: none"><li>• foam.</li><li>• dry chemical powder.</li><li>• carbon dioxide.</li></ul>
<b>Fire and Explosion</b>	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 (CO<sub>2</sub>),

**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

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## 6. ACCIDENTAL RELEASE MEASURES

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**Spillage** Minor  
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.  
Place in a suitable, labelled container for waste disposal

Other  
Clear area of personnel and move upwind.  
Alert Fire Brigade and tell them location and nature of hazard.  
Wear breathing apparatus plus protective gloves.  
Prevent, by any means available, spillage from entering drains or water course.  
Stop leak if safe to do so.  
Contain spill with sand, earth or vermiculite.  
Collect recoverable product into labelled containers for recycling.  
Neutralise/decontaminate residue.  
Collect solid residues and seal in labelled drums for disposal.  
Wash area and prevent runoff into drains.  
After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using.  
If contamination of drains or waterways occurs, advise emergency services

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## 7. STORAGE AND HANDLING

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**Storage** Store in original containers.  
Keep containers securely sealed.  
Store in a cool, dry, well-ventilated area.  
Store away from incompatible materials and foodstuff containers.  
Protect containers against physical damage and check regularly for leaks.  
Observe manufacturer's storing and handling recommendations

**Handling** Avoid all personal contact, including inhalation.  
Wear protective clothing when risk of exposure occurs.  
Use in a well-ventilated area.  
DO NOT allow material to contact humans, exposed food or food utensils.  
Avoid contact with incompatible materials.  
When handling, DO NOT eat, drink or smoke.  
Keep containers securely sealed when not in use.  
Avoid physical damage to containers.  
Always wash hands with soap and water after handling.  
Work clothes should be laundered separately. Launder contaminated clothing before re-use.  
Use good occupational work practice.  
Observe manufacturer's storing and handling recommendations.  
DO NOT allow clothing wet with material to stay in contact with skin

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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**Exposure Standards** No exposure standard(s) allocated.

<b>Biological Limit Values</b>	No biological limit allocated.
<b>Engineering Controls</b>	Ensure adequate natural ventilation.
<b>PPE</b>	Wear chemical goggles and rubber or PVC gloves. When using large quantities or where heavy contamination is likely wear PVC Apron & safety gumboots. Where an inhalation risk exists, wear a respirator.




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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

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## 10. STABILITY AND REACTIVITY

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<b>Material to Avoid</b>	Incompatible with oxidising agents (eg. peroxides), bases and strong reducing agents.
<b>Decomposition</b>	May evolve toxic gases (carbon oxides, hydrocarbons) if heated to decomposition.

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## 11. TOXICOLOGICAL INFORMATION

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<b>Health Hazard Summary</b>	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.
<b>Eye</b>	Irritant. Exposure may result in lacrimation, irritation, pain and redness.
<b>Inhalation</b>	Irritant. Over exposure may result in mucous membrane irritation of the nose and throat with coughing.
<b>Skin</b>	Irritant. Prolonged contact may result in irritation, itching and possible skin rash.
<b>Ingestion</b>	Low toxicity. Ingestion may result in gastrointestinal irritation, however due to product form, ingestion is considered highly unlikely. Maintain good personal hygiene standards.
<b>Toxicity Data</b>	No LD50 data available for this product

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## 12. ECOLOGICAL INFORMATION

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<b>Environment</b>	Ensure appropriate measures are taken to prevent this product from entering the environment.
	Persistence: Air                      LOW
	Bioaccumulation                      LOW
	Mobility                                      HIGH

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## 13. DISPOSAL CONSIDERATIONS

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<b>Waste Disposal</b>	dispose via specifically licenced waste processor to accept chemical and / or pharmaceutical wastes or incineration in a licenced apparatus.
<b>Legislation</b>	Dispose of in accordance with relevant local legislation.

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## 14. TRANSPORT INFORMATION

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**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**

<b>Shipping Name</b>	None Allocated				
<b>UN No.</b>	none allocated	<b>DG Class</b>	None Allocated	<b>Subsidiary Risk(s)</b>	None Allocated
<b>Pkg Group</b>	None Allocated	<b>Hazchem Code</b>	None Allocated	<b>EPG</b>	None Allocated

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## 15. REGULATORY INFORMATION

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**Poison Schedule** None.

**AICS** tartaric acid (CAS: 87-69-4) is listed on the Australian Inventory of Chemical Substances.  
water (CAS: 7732-18-5) is found on the "Australia Inventory of Chemical Substances.

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## 16. OTHER INFORMATION

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**Additional Information** ABBREVIATIONS:  
mg/m<sup>3</sup> - 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.

**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**