

Infosafe No™ 1CH9T      Issue Date : September 2021      RE-ISSUED by CHEMSUPP

Product Name **TARTARIC ACID**

Classified as hazardous

## 1. Identification

**GHS Product Identifier** TARTARIC ACID

**Company Name** CHEMSUPPLY AUSTRALIA PTY LTD (ABN 19 008 264 211)

**Address** 38 - 50 Bedford Street GILLMAN  
SA 5013 Australia

**Telephone/Fax Number** Tel: (08) 8440-2000

**Emergency phone number** CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

**E-mail Address** www.chemsupply.com.au

**Recommended use of the chemical and restrictions on use** Manufacture of cream of tartar, tartar emetic, and acetaldehyde; sequestrant; tanning; effervescent beverages; baking powder; fruit esters; ceramics; galvanoplastics; photography (printing and developing; light-sensitive iron salts); textile industry; silvering mirrors; colouring metals; acidulant in foods; winemaking and laboratory reagent.

|                    |  |                            |
|--------------------|--|----------------------------|
| <b>Other Names</b> | <u><b>Name</b></u>   | <u><b>Product Code</b></u> |
|                    | TARTARIC ACID AR<br>L(+)-Tartaric acid, Dihydroxysuccinic acid | TA010                      |

### Other Information

ChemSupply Australia Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon ChemSupply Australia Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of ChemSupply Australia Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

## 2. Hazard Identification

**GHS classification of the substance/mixture** Eye Damage/Irritation: Category 1

**Signal Word (s)** DANGER

**Hazard Statement (s)** H318 Causes serious eye damage.

**Pictogram (s)** Corrosion



**Precautionary statement – Prevention** P280 Wear protective eye protection/face protection.

**Precautionary statement – Response** 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 a POISON CENTER or doctor/physician.

## 3. Composition/information on ingredients

| <b>Ingredients</b> | <u><b>Name</b></u> | <u><b>CAS</b></u> | <u><b>Proportion</b></u> |
|--------------------|--------------------|-------------------|--------------------------|
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|---------------|---------|-------|
| Tartaric acid | 87-69-4 | 100 % |
|---------------|---------|-------|

#### 4. First-aid measures

|                             |   |
|-----------------------------|---|
| <b>Inhalation</b>           | If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear. |
| <b>Ingestion</b>            | Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek medical advice if effects persist.  |
| <b>Skin</b>                 | Wash with plenty of soap and water. If irritation occurs seek medical advice.   |
| <b>Eye contact</b>          | Wash with large amounts of water (luke warm if possible) for at least 15 minutes. Ask victim to look up and down and sideways to wash properly. Obtain medical attention immediately.                         |
| <b>First Aid Facilities</b> | Maintain eyewash fountain and safety shower in work area.   |
| <b>Advice to Doctor</b>     | Treat symptomatically based on judgement of doctor and individual reactions of the patient.   |
| <b>Other Information</b>    | For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor.  |

#### 5. Fire-fighting measures

|   |   |
|---|---|
| <b>Hazards from Combustion Products</b>           | Irritating and highly toxic fumes and gases, carbon monoxide, carbon dioxide.   |
| <b>Specific Methods</b>                           | Small fire: Use dry chemical, CO2, water spray or foam.<br>Large fire: Use water spray, fog or foam.<br>If safe to do so, move undamaged containers from the fire area. Cool containers with flooding quantities of water until well after the fire is out. |
| <b>Specific hazards arising from the chemical</b> | May burn but do not ignite readily. Runoff may pollute waterways. Fire may produce irritating, poisonous and/or corrosive fumes. Dust clouds may present an explosion hazard in the presence of an ignition source.   |
| <b>Decomposition Temp.</b>                        | > 220 °C  |
| <b>Precautions in connection with Fire</b>        | Wear SCBA and structural firefighter's uniform.   |

#### 6. Accidental release measures

|   |  |
|---|--|
| <b>Spills &amp; Disposal</b>              | Eliminate all ignition sources (no smoking, flares, sparks or flame) within at least 15m. Do NOT touch or walk through this product. Stop leak if safe to do so. Prevent entry into waterways, drains, confined areas. Prevent dust cloud. Use clean non-sparking tools to collect material and place it into loosely-covered plastic containers for later disposal. |
| <b>Personal Precautions</b>               | Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms.   |
| <b>Personal Protection</b>                | Wear protective clothing specified for normal operations (see Section 8)   |
| <b>Clean-up Methods - Small Spillages</b> | Sweep up (avoid generating dust) and using clean non-sparking tools transfer to a clean, suitable, clearly labelled container for disposal in accordance with local regulations.   |

#### 7. Handling and storage

|                                      |   |
|--------------------------------------|---|
| <b>Precautions for Safe Handling</b> | Avoid ingestion and inhalation of vapours or dusts. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Wear suitable protective clothing. Minimize dust generation and accumulation. Ensure good ventilation at the workplace. Use with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. If large quantity ingested, seek immediate medical attention. If you feel unwell, seek medical attention and show the label when possible. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Keep container dry. Keep away from heat and all sources of ignition. Keep away from incompatibles such as oxidizing agents, reducing agents, alkalis. |
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| <b>Conditions for safe storage, including any incompatibilities</b> | Store in a tightly closed container, in a cool, dry, well-ventilated area away from incompatible substances. Store away from oxidizing agents. Keep protected from direct sunlight and moisture. Protect against physical damage. |
| <b>Corrosiveness</b>  | In aqueous solution Tartaric acid is mildly corrosive to some metals including carbon steels (not to stainless steels).   |
| <b>Storage Temperatures</b>   | Store at room temperature (15 to 25 °C recommended).  |
| <b>Unsuitable Materials</b>   | Some metals, aluminium, iron, tin, zinc, carbon steels, silver, silver compounds.   |

## 8. Exposure controls/personal protection

|   |  |
|---|--|
| <b>Other Exposure Information</b>       | No exposure standards have been established for this product by Safe Work Australia, however, the TWA exposure standard for dusts/mists not otherwise specified is 10 mg/m <sup>3</sup> . All atmospheric contamination should be kept to as low a level as is workable. The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity. |
| <b>Appropriate engineering controls</b> | Maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods.  |
| <b>Respiratory Protection</b>           | Usually is not required. Where protection is required from nuisance levels of dust or mists select respiratory protection that complies with AS 1716 - Respiratory Protective Devices and select in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels.  |
| <b>Eye Protection</b>                   | The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.  |
| <b>Hand Protection</b>                  | Wear gloves of impervious material conforming to AS/NZS 2161: Occupational protective gloves - Selection, use and maintenance. Final choice of appropriate glove type will vary according to individual circumstances. This can include methods of handling, and engineering controls as determined by appropriate risk assessments.   |
| <b>Personal Protective Equipment</b>    | Personal protective equipment should not solely be relied upon to control risk and should only be used when all other reasonably practicable control measures do not eliminate or sufficiently minimise risk. Guidance in selecting personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards.   |
| <b>Footwear</b>                         | Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.  |
| <b>Body Protection</b>                  | Flame retardant antistatic protective clothing. Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against hazardous chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.  |
| <b>Hygiene Measures</b>                 | Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.  |

## 9. Physical and chemical properties

|                   |   |
|-------------------|---|
| <b>Form</b>       | Solid   |
| <b>Appearance</b> | Colourless or white, granular crystals or white crystalline powder. |
| <b>Odour</b>      | Odourless.  |

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| <b>Decomposition Temperature</b>              | > 220 °C  |
| <b>Melting Point</b>                          | 168 - 172 °C  |
| <b>Boiling Point</b>                          | Decomposes.   |
| <b>Solubility in Water</b>                    | Soluble (150 g/l @ 20 °C).  |
| <b>Solubility in Organic Solvents</b>         | Soluble in ethanol (25 g/100 ml), methanol (1 g/1.7 ml), propanol (1 g/10.5 ml), ether (1 g/250 ml) and glycerol. Insoluble in non polar organic solvents and chloroform. |
| <b>Specific Gravity</b>                       | 1.76  |
| <b>pH</b>                                     | 1.6 (100 g/l, H <sub>2</sub> O); 2.2 (1.47 g/ml, H <sub>2</sub> O, 25 °C).  |
| <b>Vapour Pressure</b>                        | Nil at 20 °C.   |
| <b>Vapour Density (Air=1)</b>                 | 5.18  |
| <b>Volatile Component</b>                     | <0.5%   |
| <b>Partition Coefficient: n-octanol/water</b> | Log P (o/w): -1.00.   |
| <b>Flash Point</b>                            | 210 °C (OC).  |
| <b>Flammability</b>                           | Combustible.  |
| <b>Auto-Ignition Temperature</b>              | 425 °C  |
| <b>Explosion Properties</b>                   | Finely dispersed dust in air in sufficient concentrations, and on exposure to an ignition source is a potential dust explosion hazard.                                    |
| <b>Molecular Weight</b>                       | 150.09  |
| <b>Other Information</b>                      | Taste: Strong acidic taste.   |

## 10. Stability and reactivity

|   |  |
|---|--|
| <b>Chemical Stability</b>               | Stable under ordinary conditions of use and storage.   |
| <b>Conditions to Avoid</b>              | Heat, sparks, flames, or other sources of ignition, dust generation, incompatible materials.   |
| <b>Incompatible Materials</b>           | Oxidising agents, silver and silver compounds, fluorine, reducing agents, alkalis, water + reactive metals (aluminium, iron, tin, zinc), metals. |
| <b>Hazardous Decomposition Products</b> | Irritating and highly toxic fumes and gases, carbon monoxide, carbon dioxide. May produce a flammable hydrogen atmosphere when decomposed.       |
| <b>Hazardous Polymerization</b>         | Will not occur.  |

## 11. Toxicological Information

|                                  |  |
|----------------------------------|--|
| <b>Ingestion</b>                 | Accepted as a safe food additive, but may be harmful if large quantities ingested. The effect is that of an organic acid, producing mild irritation to the gastro-intestinal system, abdominal pain, nausea, vomiting and diarrhoea. May affect kidneys (kidney damage), blood, behaviour (convulsions, somnolence) and respiration. |
| <b>Inhalation</b>                | Nuisance dust. May cause coughing and sneezing.  |
| <b>Skin</b>                      | Skin contact may cause redness, itchiness and irritation.  |
| <b>Eye</b>                       | Causes serious eye damage. Reddening and tearing may be experienced. May also be a temporary mechanical irritant.  |
| <b>Respiratory sensitisation</b> | Not classified based on available information.   |
| <b>Skin Sensitisation</b>        | Not classified based on available information.   |
| <b>Germ cell mutagenicity</b>    | Not classified based on available information.   |

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| <b>Carcinogenicity</b>               | Not listed in the IARC Monographs.<br>Not classified based on available information.   |
| <b>Reproductive Toxicity</b>         | Not classified based on available information.   |
| <b>STOT-single exposure</b>          | Not classified based on available information.   |
| <b>STOT-repeated exposure</b>        | Not classified based on available information.   |
| <b>Chronic Effects</b>               | Repeated exposure may cause erosion of teeth. Repeated or prolonged ingestion may cause lesions of the mouth, gastric ulcers, gastrointestinal hyperacidity, and symptoms similar to those of metal fume fever - flu-like condition with fever, chills, sweats, nausea, vomiting, muscle aches, pains, and weakness. Repeated or prolonged skin contact may cause skin ulcerations or lesions. |
| <b>Serious eye damage/irritation</b> | Eye Damage/Irritation: Category 1<br>H318 Causes serious eye damage.   |

## 12. Ecological information

|                                  |   |
|----------------------------------|---|
| <b>Ecotoxicity</b>               | This substance may be hazardous to the environment. Harmful effect due to pH shift.       |
| <b>Environmental Fate</b>        | Behaviour in environmental compartments:<br>Distribution: log P(o/w): -1.00 (Calculated). |
| <b>Bioaccumulative Potential</b> | No bioaccumulation is to be expected (log P(o/w) <1).                                     |
| <b>Environmental Protection</b>  | Do not allow to enter waters, waste water, or soil!                                       |

## 13. Disposal considerations

|                                |   |
|--------------------------------|---|
| <b>Disposal Considerations</b> | Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations. |
|--------------------------------|---|

## 14. Transport information

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|------------------------------|--|
| <b>Transport Information</b> | Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. |
|------------------------------|--|

## 15. Regulatory information

|                               |  |
|-------------------------------|--|
| <b>Regulatory Information</b> | All the constituents of this product are listed on the Australian Inventory of Chemical Substances ( AICS ), or exempted. Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals. |
| <b>Poisons Schedule</b>       | Not Scheduled  |

## 16. Other Information

|                              |  |
|------------------------------|--|
| <b>Literature References</b> | 'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia.<br>National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'.<br>Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals'.<br>Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand.<br>Safe Work Australia, 'Hazardous Chemical Information System'.<br>Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances'.<br>Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment'. |
| <b>Contact Person/Point</b>  | Paul McCarthy Ph. (08) 8440 2000 <b>DISCLAIMER STATEMENT:</b><br>All information provided in this data sheet or by our technical representatives is compiled from the best knowledge available to us. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, we   |

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**Empirical Formula  
& Structural  
Formula**

Empirical Formula: C<sub>4</sub>H<sub>6</sub>O<sub>6</sub>.  
Structural Formula: HO<sub>2</sub>CCH(OH)CH(OH)CO<sub>2</sub>H.

...End Of MSDS...

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