





1. IDENTIFICATION

Product Name Citric Acid Solution

Other Names Citric Acid 20% w/v; Citric Acid 20% w/w

Uses Food, cosmetic and pharmaceutical applications.

Chemical Family No Data Available

Chemical Formula C6H8O7

Chemical Name 1,2,3-Propanetricarboxylic acid, 2-hydroxy-

Product Description No Data Available

Company Arman sina.co

Contact Information info@armansina.com

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2. HAZARD IDENTIFICATION

Hazard Categories Skin Corrosion/Irritation - Category 2

Serious Eye Damage/Irritation - Category 2A

Specific Target Organ Toxicity (Single Exposure) - Category 3

Signal Word Warning

Hazard Statements H315 Causes skin irritation.

H319 Causes serious eye irritation.H335 May cause respiratory irritation.

Precautionary Statements Prevention P280 Wear protective gloves/eye protection/face protection.

P305 + P351 + P338

P261 Avoid breathing mist/vapours/spray.

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

Response P302 + P352 IF ON SKIN: Wash with plenty of water.

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

P312 Call a POISON CENTER or doctor if you feel unwell.

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

r332 + r313 III Skiil IIII attori occurs. Get medical advice.

if present and easy to do. Continue rinsing.

P304 + P340 IF INHALED: Remove victim to fresh air and keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

P362 + P364 Take off contaminated clothing and wash it before reuse.

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

P405 Store locked up.

Disposal P501 Dispose of contents/container in accordance with local / regional / national /

international regulations.

Symbol



3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Citric acid	C6H8O7	77-92-9	20 %
Water	H2O	7732-18-5	80 %

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed IF SWALLOWED: Rinse mouth, then give plenty of water to drink. Do not induce vomiting. Get medical advice/attention if

you feel unwell. Never give anything by mouth to an unconscious person.

Eye IF IN EYES: Immediately flush eyes with running water for several minutes, holding eyelids open and occasionally lifting

the upper and lower lids. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. If eye

irritation persists, get medical advice/attention.

*Take care not to rinse contaminated water into the non-effected eye!

Skin IF ON SKIN: Remove and isolate contaminated clothing and shoes. Immediately flush skin with running water for at least

15 minutes. If skin irritation occurs, get medical advice/attention. Wash contaminated clothing and shoes before reuse.

Inhaled IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a Poison Centre or

doctor/physician for advice. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult.

Advice to Doctor Treat symptomatically.

Medical Conditions Aggravated by No information available.

Exposure

5. FIRE FIGHTING MEASURES

General Measures If safe to do so, move undamaged containers from fire area. Cool containers with water spray until well after fire is out.

Flammability Conditions Non-combustible; However, following evaporation of aqueous component under fire conditions, the non-aqueous

component may decompose and/or burn.

Extinguishing Media If material is involved in a fire, use dry chemical, Carbon dioxide (CO2), foam or water spray for extinction.

Fire and Explosion Hazard Containers may explode when heated.

Hazardous Products of

Combustion

Fire may produce irritating and/or toxic gases, including Carbon oxides.

Special Fire Fighting InstructionsContain runoff from fire control water - Runoff may cause pollution.

Personal Protective Equipment Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only

provide limited protection.

Flash Point No Data Available
Lower Explosion Limit No Data Available
Upper Explosion Limit No Data Available
Auto Ignition Temperature No Data Available
Hazchem Code No Data Available

6. ACCIDENTAL RELEASE MEASURES

Ensure adequate ventilation. Do not touch or walk through spilled material. Avoid breathing vapours and contact with

General Response Procedure eye

eyes, skin and clothing.

Clean Up Procedures

Pick up with sand or other non-combustible absorbent material and place into containers for later disposal (see SECTION

13)

Containment

Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas.

Decontamination
Environmental Precautionary

After cleaning, flush away traces with water.

Measures

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Evacuation Criteria

Prevent entry into drains and waterways.

Spill or leak area should be isolated immediately. Evacuate all unnecessary personnel. Keep unauthorised personnel

away.

Personal Precautionary Measures Use personal protective equipment as required (see SECTION 8).

7. HANDLING AND STORAGE

Handling Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure

adequate ventilation - Use only outdoors or in a well-ventilated area. Handle in accordance with good industrial hygiene and safety practice. Avoid breathing mist/vapours/spray and contact with eyes, skin and clothing. Use personal protective

equipment as required (see SECTION 8).

Storage Storage Store in a cool, dry and well ventilated place, out of direct sunlight. Keep container tightly closed. Protect from damage -

Inspect periodically for deficiencies such as damage or leaks. Keep away from heat and sources of ignition - No smoking.

Keep away from incompatible materials (see SECTION 10). Store locked up.

Container Store in suitable, labelled containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General No exposure standards have been established for this material by Safe Work Australia.

Exposure Limits No Data Available

Biological Limits No information available.

Engineering Measures A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust

ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing

dispersion of it into the general work area.

Personal Protection Equipment - Respiratory protection: In case of inadequate ventilation, wear respiratory protection. Recommended: Suitable mist

respirator (refer to AS/NZS 1516 & 1517).

- Eye/face protection: Wear appropriate eye protection to avoid eye contact. Recommended: Chemical goggles.

- Hand protection: Wear protective gloves. Recommended: Impervious gloves.

- Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: Overalls and

rubber boots.

Special Hazards Precaustions No infe

No information available.

Work Hygienic Practices

Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Take off contaminated clothing and

wash it before reuse, or discard.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical StateLiquidAppearanceClear liquidOdourCharacteristicColourColourless

pH No Data Available

No Data Available **Vapour Pressure Relative Vapour Density** No Data Available **Boiling Point** No Data Available **Melting Point** No Data Available **Freezing Point** No Data Available Solubility Miscible with water

Specific Gravity 1.19 - 1.29

Flash Point No Data Available **Auto Ignition Temp** No Data Available **Evaporation Rate** No Data Available **Bulk Density** No Data Available **Corrosion Rate** No Data Available **Decomposition Temperature** No Data Available **Density** No Data Available **Specific Heat** No Data Available **Molecular Weight** No Data Available **Net Propellant Weight** No Data Available **Octanol Water Coefficient** No Data Available **Particle Size** No Data Available **Partition Coefficient** No Data Available Saturated Vapour Concentration No Data Available **Vapour Temperature** No Data Available No Data Available **Viscosity**

Additional Characteristics No information available.

Potential for Dust Explosion Not applicable.

Fast or Intensely Burning

Characteristics

Volatile Percent

VOC Volume

No information available.

No Data Available

No Data Available

Flame Propagation or Burning

Rate of Solid Materials

No information available.

No information available.

Non-Flammables That Could

Contribute Unusual Hazards to a

Properties That May Initiate or Contribute to Fire Intensity

Non-combustible; However, following evaporation of aqueous component under fire conditions, the non-aqueous

component may decompose and/or burn.

Reactions That Release Gases or Decomposes on heating; may produce irritating and/or toxic gases, including Carbon oxides.

Vapours

Release of Invisible Flammable No information available.

Vapours and Gases

10. STABILITY AND REACTIVITY

General Information Will slowly corrode mild steel. **Chemical Stability** Stable under normal conditions.

Conditions to Avoid Keep away from heat and sources of ignition. **Materials to Avoid** Incompatible/reactive with strong alkalis, mild steel.

Decomposes on heating; may produce irritating and/or toxic gases, including Carbon oxides.

Hazardous Decomposition

Products

Hazardous Polymerisation Hazardous polymerisation does not occur.

11. TOXICOLOGICAL INFORMATION

General Information - Acute toxicity: May be harmful if swallowed. May cause irritation to the mouth, oesophagus, and stomach if ingested in

large quantities.

- Skin corrosion/irritation: Causes skin irritation. May cause skin redness (erythema).

- Eye damage/irritation: Causes serious eye irritation. May cause redness and tearing of the eyes.

- Respiratory/skin sensitisation: Not classified.

- Germ cell mutagenicity: Not classified.

- Carcinogenicity: Not classified.

- Reproductive toxicity: Not classified.

- STOT (single exposure): May cause respiratory irritation. May cause irritation to the mucous membrane and upper

airways; Coughing and/or wheezing and difficulty in breathing.

- STOT (repeated exposure): Not classified.

- Aspiration toxicity: Not classified.

Acute

Ingestion Acute toxicity (Oral):

COMPONENT: Citric acid (CAS No. 77-92-9): - LD50, Rats: 3,000 - 12,000 mg/kg bw. [NICNAS].

Other Acute toxicity (Dermal):

COMPONENT: Citric acid (CAS No. 77-92-9): - LD50, Rats: >2,000 mg/kg bw. [NICNAS].

Carcinogen Category None

12. ECOLOGICAL INFORMATION

Ecotoxicity This chemical is a moderately acidic aqueous solution, and this property may cause adverse environmental effects. It has

a high biological oxygen demand, and it may cause significant oxygen depletion in aquatic systems. If neutralised, it has low potential to affect aquatic organisms, secondary waste treatment microorganisms and the germination and growth of

some plants.

Persistence/Degradability This product is expected to be readily biodegradable.

Mobility No information available.

Environmental Fate Prevent entry into drains and waterways.

Bioaccumulation Potential This product is not likely to bioconcentrate.

Environmental Impact No Data Available

13. DISPOSAL CONSIDERATIONS

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

Special Precautions for Land Fill Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

Land Transport

Proper Shipping NameCitric Acid SolutionClassNo Data AvailableSubsidiary Risk(s)No Data Available

No Data Available

UN Number No Data Available
Hazchem No Data Available
Pack Group No Data Available
Special Provision No Data Available

Comments NON-DANGEROUS GOODS: Not regulated for LAND transport.

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Sea Transport

Citric Acid Solution **Proper Shipping Name** Class No Data Available Subsidiary Risk(s) No Data Available **UN Number** No Data Available Hazchem No Data Available No Data Available **Pack Group** No Data Available **Special Provision EMS** No Data Available

Marine Pollutant No

Comments NON-DANGEROUS GOODS: Not regulated for SEA transport.

Air Transport

Proper Shipping Name
Citric Acid Solution
Class
No Data Available
Subsidiary Risk(s)
No Data Available
UN Number
No Data Available
Hazchem
No Data Available
Pack Group
No Data Available
Special Provision
No Data Available

Comments NON-DANGEROUS GOODS: Not regulated for AIR transport.

15. OTHER INFORMATION

2 Revision Key/Legend < Less Than > Greater Than **AICS Australian Inventory of Chemical Substances** atm Atmosphere CAS Chemical Abstracts Service (Registry Number) cm² Square Centimetres CO2 Carbon Dioxide **COD Chemical Oxygen Demand** deg C (° C) Degrees Celcius EPA (New Zealand) Environmental Protection Authority of New Zealand deg F (° F) Degrees Farenheit g Grams g/cm³ Grams per Cubic Centimetre g/I Grams per Litre **HSNO Hazardous Substance and New Organism** IDLH Immediately Dangerous to Life and Health immiscible Liquids are insoluable in each other. inHg Inch of Mercury inH2O Inch of Water K Kelvin kg Kilogram kg/m³ Kilograms per Cubic Metre LC50 LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours. LD50 LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals. Itr or L Litre m³ Cubic Metre mbar Millibar ma Milliaram mg/24H Milligrams per 24 Hours mg/kg Milligrams per Kilogram mg/m³ Milligrams per Cubic Metre Misc or Miscible Liquids form one homogeneous liquid phase regardless of the amount of either component present. mm Millimetre mmH2O Millimetres of Water mPa.s Millipascals per Second N/A Not Applicable NIOSH National Institute for Occupational Safety and Health NOHSC National Occupational Heath and Safety Commission **OECD Organisation for Economic Co-operation and Development** Oz Ounce **PEL Permissible Exposure Limit** Pa Pascal ppb Parts per Billion ppm Parts per Million ppm/2h Parts per Million per 2 Hours ppm/6h Parts per Million per 6 Hours psi Pounds per Square Inch R Rankine **RCP Reciprocal Calculation Procedure** STEL Short Term Exposure Limit **TLV Threshold Limit Value**

tne Tonne

UN United Nations wt Weight

TWA Time Weighted Average ug/24H Micrograms per 24 Hours