



Chief Medical Supplies Ltd.
411 – 19 Street, S. E.
Calgary, AB., Canada.
T2E 6J7
1.866.620.6034

Safety Data Sheet Citric Acid 20%

Document No. M-D9-019

Section I – Product and Company Identification

Synonym: 2-Hydroxy-1,2,3-Propanetricarboxylic Acid

CAS No.: 77-92-9

Molecular Weight: 192.13g/mol

Chemical Formula: C₆H₈O₇

Product Code: CA20-4

Company Identification:

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For information, call:

1-403-207-6034

Emergency Number:

1-403-207-6034

Section II – Hazards Identification

Appearance: Clear colorless liquid

Physical State: Liquid

Odor: Odorless

Hazards of Product: Causes eye and skin irritation. May cause respiratory tract irritation.

Potential Health Hazards

Eye: Causes severe eye irritation.

Skin: Causes skin irritation. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material. Some references state that citric acid has allergenic properties but, no animal or human studies were found to support this claim. It does not seem likely that citric acid is a sensitizer since it is found in the body as an essential component of the citric acid cycle which releases energy for physiological functions. Citric acid is widely distributed in plants and in animal tissues and fluids.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. Excessive intake of citric acid may cause erosion of the teeth.

Inhalation: May cause respiratory tract irritation. Because its vapor pressure is negligible, it exists in the air only as a mist or spray.

Section III – Composition/Information on Ingredients

Ingredient Name	Chemical Formula	CAS No.	% by weight
Citric Acid	C ₆ H ₈ O ₇	64-19-7	20%
Water	H ₂ O	7732-18-5	80%

Section IV – First Aid Measures

Skin Contact: In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse.

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Ingestion: If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.

Section V – Fire Fighting Measures

Conditions of flammability: Not available

Flash point and method of determination: Not available

Upper flammable limit: Not available

Lower flammable limit: Not available

Auto-ignition temperature: Not available

Hazardous combustion products: Not applicable

Explosion data - sensitivity to mechanical impact: Not available

Explosion data - sensitivity to static discharge: Not available

Fire Fighting Media and Instructions: Use DRY chemicals, CO2, alcohol foam or water spray.

Special Remarks on Fire Hazards: Not available

Special Remarks on Explosion Hazards: Not available

Section VI – Accidental Release Measures

Spill: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Provide ventilation. Spill may be carefully neutralized with lime (calcium oxide, CaO).

Section VII – Handling and Storage

Handling Procedures: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Avoid breathing spray or mist.

Storage Requirements: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

Section VIII – Exposure Controls/Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Personal Protection

Eyewear: Chemical splash goggles

Gloves: Gloves

Clothing: Synthetic apron

Respirator: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Exposure Limits: OSHA Permissible Exposure Limit (PEL): 25 ppm (TWA); ACGIH Threshold Limit Value (TLV): 10 ppm (TWA); 10 ppm (STEL).

Section IX – Physical and Chemical Properties

Physical state: Liquid

Odour and appearance: Odorless

Odour threshold: Not available

Specific gravity: Not available

Vapour pressure: Not available

Vapour density: Not available

Evaporation rate: Not available

Boiling point: Not available

Freezing point: Not available

pH (1% soln/water): Not available

Coefficient of water/oil distribution: Not Available

Taste: Not available

Critical Temperature: Not available

Dispersion Properties: Not available

Solubility: Soluble in water

Section X – Stability and Reactivity

Stability: Stable

Conditions to avoid: Incompatible materials, excess heat.

Incompatible materials: Oxidizing agents, potassium tartrate, alkalis, alkali carbonates, acetates, sulfides (inorganic, e.g. ferric sulfide, lead sulfide, sodium sulfide), bicarbonates, metal nitrates, strong oxidizing agents, metals, strong reducing agents, strong bases.

Conditions of reactivity: Not available

Hazardous decomposition products: Carbon monoxide. Carbon dioxide.

Special Remarks on Corrosivity: Not available

Polymerization: Will not occur

Section XI – Toxicological Information

Route of entry: Not available

Effects of Acute exposure: Not available

Other Toxic Effects on Humans: Not available

Irritancy of product: Not available

Sensitization to product: Not available

Carcinogenicity: Not available

Reproductive toxicity: Not available

Teratogenicity: Not available

Mutagenicity: Not available

Toxicologically synergistic products: Not available

Toxicity to Animals: Not available

Special Remarks on other Toxic Effects on Humans: Not available

Section XII – Ecological Information

Ecotoxicity: Not available

BOD5 and COD: Not available

Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: Not available

Special Remarks on the Products of Biodegradation: Not available.

Section XIII – Disposal Considerations

Waste disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section XIV – Transport Information

Special shipping information: Not regulated

Transport of Dangerous Goods (TDG): Not regulated

Department of Transportation (DOT): Not a DOT controlled material (United States).

International Maritime Dangerous Goods (IMO): None

International Civil Aviation Organization (ICAO): None

WHIMIS classification: CLASS E: Corrosive liquid (Canada)

OSHA: Not available

SERA: Not available

TSCA: TSCA 8(b) inventory: Citric acid

Section XIV – Other Information

MSDS creation date: Oct 3, 2000

Last revision date: Feb 11, 2019

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***This product has been classified in accordance with the hazard criteria of the CPR
and the SDS contains all of the information required by the CPR***