AERCHEM, inc

320 N. Walnut St.
Bloomington, IN 47404
812.334.9996
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Material Safety Data Sheet

Section 1. Product and Identification

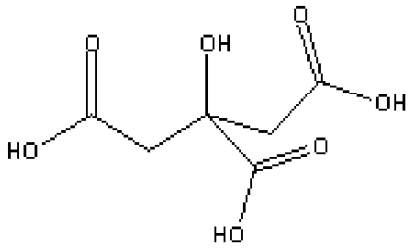
Common name: **Citric Acid Anhydrous**

Synonyms:

Molecular formula: $C_6H_8O_7$

Molecular Weight: 192.13

CAS #: 77-92-9



In case of emergency:
Chemtrec (24hr) (800) 424-9300

Supplier: AerChem Inc.
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U.S.A..

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Section 2. Composition and Informaion on Ingredients

Name	CAS #	% by Weight
Citric Acid	77-92-9	100

Toxicological Data on Ingredients	Citric Acid ORAL (LD50): Acute: 6730 mg/kg (rat) 5040 mg/kg (mouse)

Section 3. Hazards Identification

Potential Acute Health Effects	Slightly dangerous in case of inhalation, of ingestion. Very slightly dangerous incase of skin and eye contact. Corrosive to eyes and skin. The amount of tissue damage depends on length of contact. Eye contact can result in corneal damage or blindeness. Skin contact can produce inflammation and blistering. Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract. Severe over-exposure can produce lung damage, choking, uncosciousness or death.
Potential Chronic Health Effects	**CARCINOGENIC EFFECTS:** Not Available. **MUTAGENIC EFFECTS:** Not Available. **TERATOGENIC EFFECTS:** Not Available. The substance is toxic to mucous membranes. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated

	exposure of the eyes to a low level of dust can produce eye irritation. Repeated skin exposure can produce local skin destruction, or dermatitis. Repeated Inhalation of dust can produce varing degree of respiratory irritation or lung damage.

Section 4. First Aid Measures	
Eye contact:	Exposed eye should be flushed with large amounts of water thoroughly. Assure adequate flushing of the eyes by separating the eyelids w/finger If irritation persists, seek medical advice.
Skin contact:	Remove contaminated clothing and shoes. If irritation persists, seek medical advice. Wash skin with running water and non-abrasive soap. For serious skin contact, wash with disinfectant soap and cover skin with anti-bacterial cream. Seek medical attention.
Inhalation:	If signs for overexposure occur, remove the person to fresh air at once. If breathing is difficult, give oxygen. If necessary, seek medical advise. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is corrosive.
Ingestion:	DO NOT induce vomiting. Loosen tight clothing such as collar, tie, etc. If victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

Section 5. Fire-Fighting Measures	
Flash point:	N/A
Explosion Limits	not found
Flammability:	Lower: 3.6% Upper: 29%
Extinguishing Media	Use water spary, carbon dioxide, dry chemical powder, and foam for fires involving this material. DO NOT use water jet.
Fire &Explosion Hazard:	N/A

Section 6. Accidental Release Measures	
Stepstaken for a Spill:	Sweep up, place in a container and hold for waste disposal. Ventilate area and neutralize residue with a dilute solution of sodium carbonate if necessary.
Waste Disposal Method:	Discard any waste product, residue, disposable container, liner or spilled material in an environmentally acceptable manner that is in full compliance with all applicable national and local laws and regulations. Burn in a chemical incinerator equipped with an afterburner and scrubber. When this material is liquid, it is better ot neutralize its chemical nature by using a dilute solution of sodium carbonate.

Section 7. Handling and Storage	
Handling:	Avoid eye, skin, and clothing contact and ingalation of this material as dust. This material may cause eye, skin, and respiratory irritaion. Persons susceptible to allergies must not handle this material. Do not inhale this material dust. Wash hands thoroughly after handling. Avoid prolonged exposure.
Storage:	Store in closed containers in a cool, dry, and well-ventilated area away from heat, all sources of ignition, and light. Keep tightly closed.

Section 8. Exposure Controls	
Ventilation:	Local exhaust system
Eye protection:	Wear close-fitting chemical safety goggles.
Skin protection:	Avoid prolonged exposure. Use rubber gloves and clothing protection.
Respiratory protection:	Wear NIOSH approved respirators to protect from airborne dust.

Section 9. Physical and Chemical Propeties	
Molecular weight:	192.12 g/mol
Appearance and odor:	N/A
pH:	1 (acidic)
Vapor pressure:	0 mmHg (20°C)
Boiling point:	decomposes
Melting point:	153°C
Solubility:	Easily soluble in water.

Section 10. Stability and Reactivity

Chemically **Stable**.

Avoid open flame and sources of igniton.

Hazardous Polymerization **does not occur**.

Section 11. Transportation Information

Not a DOT controlled Substance