

AERCHEM INC.
320 N. WALNUT STREET
BLOOMINGTON, IN 47404

Tel: 812-334-9996

Fax: 812-334-1960

Emergency: 800-424-9300

Effective Date: 10/25/95

Product Name: Citric Acid, Anhydrous USP
Citric Acid, Monohydrate USP

Chemical Formula: C₆H₈O₇

Synonyms: 2-Hydroxy-1,2,3-tricarboxylic acid, B-hydroxytricarballic acid

CAS No.: Citric Acid, Anhydrous USP 77-92-9

Hazardous Ingredients: None

Hazardous Symbols: XI

EINECS No.: None

Physical Data:

Melting point (range) Approx.:	N/A
Boiling point:	153°C (Anhydrous) 100°C (Monohydrate)
Decomposition temperature:	N/A
pH (depends on quality):	N/A
Solubility in water:	64.3% w/w at 30°C
Odor:	None
Physical form:	Colorless, translucent crystals or powder
Vapor pressure:	N/A
Tap density:	N/A

Fire and Explosion Information:

Flash point:	N/A
(Auto) Ignition temperature:	N/A
Extinguishing media to be recommended:	N/A
to be avoided:	N/A
Special fire and explosions precautions:	Standard fire fighting equipment for handling chemical related fires.
Fire and explosions hazards:	N/A

Reactivity Data: Stable Unstable

Hazardous Decomposition: None

Hazardous Polymerization: Will not occur

Incompatibilities: Potassium tartrate, alkali and alkaline earth carbonates and bicarbonates, acetates, sulfides. Metal nitrates.

Handling and Storage Information:

Normal handling and storing precautions for USP products. Keep in a cool dry area away from moisture.

Leak/Spill Information:

Clean up by vacuum or broom sweeping.

Citric Acid, *AerChem, Inc.*

Disposal Information:

(Consult Federal, Local and State regulations) Bury incinerate, cover contaminated surfaces with soda ash or sodium bicarbonate.

Health Hazard Information:

A. Exposure/Health Effects

Severe eye irritant. Nuisance dust symptoms.

Chronic Exposures:

Moderate irritant organic acid, some allergic properties.

Aggravation of pre-existing conditions:

Upper respiratory disorders.

B. First Aid:

Inhalation: Leave area of dust and seek fresh air.

Ingestion: Induce vomiting. Seek medical attention.

Skin Contact: Flush with large amounts of water for 15 minutes.

Eye Contact: Flush with large amounts of water for 15 minutes. Seek medical attention.

C. Toxicity Data

ORL-MUS: LD 50: 5040 mg/kg

Occupational Control Measures:

Airborne Exposure Limited: N/A

Ventilation Systems: Local exhaust recommended. Mechanical required.

Personal Respirators: (Niosh Approved) U.S. Bureau of mines approved dust mask.

Skin Protection: Protective clothing or equipment as needed.

Eye Protection: Chemical goggles, eye bath.
