

# IDENTITY: Anhydrous Citric Acid

## Section I – Manufacturer Information

Pfizer Chemicals Division  
235 E. 42<sup>nd</sup> Street  
New York, NY 10017

Telephone Number for Information:  
(212) 573-2323  
Date Prepared: December 29, 1986

**EMERGENCY NUMBER: (800) 424-9300 (Chemtrec)**

Trade names: U.S.P., F.C.C., B-Hydroxy-tricarboxylic acid

## Section II – Hazard Ingredients/Identity Information

Not Applicable

Formula –  $\text{HOC}(\text{CH}_2\text{CO}_2\text{H})_2\text{CO}_2\text{H}$

## Section III – Physical/Chemical Characteristics

Boiling Point: Decomposes  
Vapor Pressure: N/A  
Vapor Density: N/A

Specific Gravity: 1.542  
Melting Point: 153°C  
Evaporation Rate: N/A

Solubility in Water: at 20°C 59.2g/100ml

Appearance and Odor: White odorless granular, fine granular or powder/Odorless

## Section IV – Fire and Explosion Hazard Data

Flash Point (Method Used): Ignition Temp. 1000° - 1020°C g. /ft.  
LEL:

Flammable Limits:  
UEL:

Extinguishing Media: Water

Special Fire Fighting Procedures: None

Unusual Fire and Explosion Hazards: Weak (Bur. Of Mines Relative Explosion Hazard Rating)

## Section V – Reactivity Data

Stable or Unstable? Stable  
Conditions to Avoid: N/A

Incompatibility (Materials to Avoid): Metal nitrates, alkali carbonates and bicarbonates.

Hazardous Decomposition or Byproducts: Carbon dioxide and carbon monoxide may form when heated to decomposition.

Hazardous Polymerization May Occur or Will Not Occur? Will Not Occur  
Conditions to Avoid: N/A

## Section VI – Health Hazard Data

### Routes of Entry:

Inhalation – May cause respiratory irritation as an organic acid.

Ingestion – Extremely large oral dosages may produce gastrointestinal disturbances.

Skin – May irritate the skin, especially in sensitive areas. Soreness, mild inflammation may occur.

Eye – Irritant. Also possibly temporarily abrasive. Redness, tearing and pain may occur.

### Carcinogenicity

NTP:

IARC Monographs:

OSHA Regulated:

Health Hazards: Causes severe eye and skin irritation.

Signs and Symptoms of Exposure:

Medical Conditions Generally Aggravated by Exposure: No adverse health effects expected.

### Emergency and First Aid Procedure:

Inhalation – Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion – Give several glasses of water to drink to dilute. If large amounts were swallowed, get medical advice.

Skin - Wash exposed are with soap and water. Get medical advice if irritation develops.

Eye – Wash thoroughly with running water. Get medical advice if irritation develops.

## Section VII – Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled: Ventilate area or leak or spill. Clean-up personnel may require protective clothing and respiratory protection from dust. Spills: sweep up and containerize for reclamation or disposal. Avoid dust dispersal. Trace residue may be flushed to sewer with large amounts of water.

Waste Disposal Method: Whatever cannot be saved for reclamation may be disposed as hazardous waste in an approved waste disposal facility. Ensure compliance with local, state and federal regulations.

Precautions to be Taken in Handling and Storing: Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage.

Other Precautions:

## Section VIII – Control Measures

Respiratory Protection: For conditions of use where exposure to the dust is apparent, a dust/mist respirator may be worn. For emergencies, a self-contained breathing apparatus may be necessary.

### Ventilation

Local Exhaust: Acceptable

Mechanical:

Special:

Other:

Protective Gloves: Rubber

Eye Protection: Safety glasses. Maintain eye wash fountain and quick-drench facilities in work area.

Other Protective Clothing or Equipment: Full body-covering clothing

Work/Hygienic Practices:

## Section IX – Additional Information

The information provided in this Material Safety Data Sheet represents data from the manufacturer and/or vendor and is accurate to the best of our knowledge. By providing this information, Delta Education LLC makes no guarantee or warranty, expressed or implied, concerning the safe use, storage, handling, precautions, and/or disposal of the products covered or the accuracy of the information contained in this fact sheet. It is the responsibility of the user to comply with local, state, and federal laws and regulations concerning the safe use, storage, handling, precautions, and/or disposal of products covered in this fact sheet.