

# Material Safety Data Sheet

Provided by:  
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## SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name** CITRIC ACID ANHYDROUS  
**Synonyms** 1,2,3-PROPANETRICARBOXYLIC ACID  
**Chemical Name** CITRIC ACID ANHYDROUS  
**Emergency phone:** 281-457-4888  
**Chemtrec:** 800-424-9300  
**Date of Issue:** 12/28/2000  
**Reviewed / Revision Date:** 3/5/2009

## SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS	PERCENT	CAS NO.
CITRIC ACID	>99%	77-92-9

## SECTION 3 - HAZARDS IDENTIFICATION

### Potential Health Effects

**ACGIH - TLV:** NOT ESTABLISHED.  
**Eye Contact** DUST IS IRRITATING AND CAN CAUSE PAIN, TEARING, REDDENING AND SWELLING.  
**Skin Contact** FREQUENT OR PROLONGED CONTACT MAY IRRITATE THE SKIN AND CAUSE A SKIN RASH (DERMATITIS).  
**Ingestion** MAY CAUSE DIGESTIVE TRACT IRRITATION WITH SYMPTOMS INCLUDING NAUSEA, DIARRHEA, VOMITING, AND ABDOMINAL PAIN.  
**Inhalation** DUST MAY BE SLIGHTLY IRRITATING TO RESPIRATORY TRACT.  
**Carcinogenicity:** NTP NO IARC NO OSHA NO

## SECTION 4 - FIRST AID PROCEDURES

**Eye Contact:** IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION.  
**Skin Contact:** IMMEDIATELY REMOVE CONTAMINATED CLOTHING OR SHOES, WIPE EXCESS FROM SKIN AND FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. USE SOAP IF AVAILABLE OR FOLLOW BY WASHING WITH SOAP AND WATER. DO NOT REUSE CLOTHING UNTIL THOROUGHLY CLEANED. GET MEDICAL ATTENTION.  
**Inhalation:** REMOVE VICTIM TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GET MEDICAL ATTENTION.  
**Ingestion:** DO NOT INDUCE VOMITING. RINSE MOUTH WITH WATER. IF CONSCIOUS, GIVE LARGE QUANTITIES OF WATER OR MILK AND GET IMMEDIATE MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON!

## SECTION 5 - FIRE FIGHTING MEASURES

**Flash Point (°F)** NOT APPLICABLE  
**Extinguishing Media** WATER, FOAM, DRY CHEMICAL.  
**Special Firefighting Procedures/Precuations** WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. STAY UPWIND AND KEEP OUT OF LOW AREAS.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

**For Spill:** AVOID INHALATION OF DUST. SWEEP UP MATERIAL AND PLACE IN CONTAINERS FOR DISPOSAL. PREVENT MATERIAL FROM ENTERING WATERWAYS OR SEWERS.

## SECTION 7 - HANDLING AND STORAGE

Keep container tightly closed when not in use. Store in a cool, dry, well-ventilated area, away from heat and incompatible materials. Protect containers from physical damage.

AVOID GENERATION OF DUSTS AND MISTS.

## SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

**Respiratory Protection** USE A NIOSH/MSHA APPROVED RESPIRATOR FOLLOWING MANUFACTURER'S RECOMMENDATIONS WHERE DUST OR MIST MAY BE GENERATED.

**Ventilation** LOCAL AND MECHANICAL RECOMMENDED.

**Protective Gloves** CHEMICAL IMPERVIOUS GLOVES.

**Eye/Face Protection** CHEMICAL SAFETY GOGGLES AND/OR FULL-FACE SHIELD.

**Other Protection** CHEMICAL RESISTANT CLOTHING SUCH AS COVERALLS/APRON, BOOTS, ETC.

**Work Practices** USE GOOD PERSONAL HYGIENE PRACTICES. WASH HANDS BEFORE EATING, DRINKING, SMOKING, OR USING TOILET FACILITIES. PROMPTLY REMOVE SOILED CLOTHING AND WASH THOROUGHLY BEFORE REUSE. SHOWER AFTER WORK USING PLENTY OF SOAP AND WATER.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

<b>Boiling Point (°F):</b>	NOT APPLICABLE	<b>Vapor Pressure (mmHg):</b>	NOT APPLICABLE
<b>Freezing Point (°F):</b>	NOT APPLICABLE	<b>Vapor Density (Air=1):</b>	NOT APPLICABLE
<b>Solubility (H<sub>2</sub>O):</b>	SOLUBLE.	<b>Specific Gravity (H<sub>2</sub>O=1):</b>	1.665
<b>pH</b>	1.8	<b>Evaporation Rate:</b>	NOT DETERMINED
<b>Appearance/Odor:</b>	COLORLESS POWDER WITH NO APPRECIABLE ODOR.		

## SECTION 10 - STABILITY AND REACTIVITY

**Chemical Stability:** YES

**Incompatible Material:** POTENTIALLY EXPLOSIVE REACTION WITH METAL NITRATES, STRONG BASES, AND OXIDIZERS.

**Hazardous Polymerization:** WILL NOT OCCUR.

**Decomposition Products:** CARBON MONOXIDE AND CARBON DIOXIDE.

## SECTION 11 - TOXICITY INFORMATION

LD50 ORAL (rat) = 3 mg/kg LD50 ORAL (mouse) = 5040 mg/kg

**SECTION 12 - ECOLOGICAL INFORMATION**

NO DATA AVAILABLE.

**SECTION 13 - DISPOSAL CONSIDERATIONS**

DO NOT DISCHARGE INTO WATERWAYS OR SEWER SYSTEMS WITHOUT PRIOR APPROVAL.  
DISPOSE OF WASTE MATERIALS ACCORDING TO ALL FEDERAL, STATE AND LOCAL REGULATIONS.

**SECTION 14 - TRANSPORT INFORMATION**

**USA DOT Shipping Name:** NOT REGULATED.

**Hazard Class:**

**UN/NA Number:**

**Packing Group:**

**Subsidiary Hazard:**

**Marine Pollutant:** NO

**SECTION 15 - REGULATORY INFORMATION**

**CERCLA RQ (lbs):** NOT APPLICABLE

**SARA Title III Section 312:**

**Acute**     **Chronic**     **Flammable**     **Sudden Release of Pressure**     **Reactive**

**SARA Title III Section 313:** No

**SARA Extremely Hazardous Substance:** No

**HMIS HAZARD RATING**

**Health:** 2                      **Fire:** 0                      **Reactivity:** 0  
0 - Least    1 - Slight    2 - Moderate    3 - High    4 - Extreme

**SECTION 16 - OTHER INFORMATION**

**EPA Pesticide Registration Number:** NOT APPLICABLE

**NSF Maximum Use Level for Potable Water (Standard 60):** NOT APPLICABLE

**TSCA (Toxic Substance Control Act), 40 CFR 710:**

Sources of the raw materials used in this mixture assure that all chemical ingredients present are in compliance with Section 8(b) Chemical Substance Inventory, or are otherwise in compliance with TSCA.

**DISCLAIMER**

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