



MATERIAL SAFETY DATA SHEET

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

- **Product name:** CITRIC ACID ANHYDROUS INDUSTRIAL GRADE
- **Manufacturer:** Deep South Chemical, Inc.
229 Millstone Road
Broussard, LA 70518 (337) 837-9931
- **For Emergency :** Call CHEMTREC 1-800-424-9300
Outside the U.S.A. (703)-527-3887
- **Chemical Family:** Carboxylic acid
- **Contact Person:** Glenn Ray
- **Formula:** C₆H₈O₇ (99.0%)
- **MSDS Revised:** January 1, 2014

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components	CAS Number	%	PEL(OSHA)		TLV(ACGIH)		IDLH
			TWA	STEL	TWA	STEL	
CITRIC ACID	77-92-9	98-100	N/E	N/E	N/E	N/E	N/E

SECTION 3. HAZARDS IDENTIFICATION, INCLUDING EMERGENCY OVERVIEW

Effects of overexposure:

Inhalation: Irritant

Eye Contact: Can burn the eye cornea and cause severe irritation.

Skin Contact: Irritating to skin.

Ingestion: Irritation of the mouth, throat, and digestive tract.

SECTION 4. FIRST AID MEASURES

Eyes: Move victim away from exposure and into fresh air. If irritation persists, seek medical attention. For direct exposure, flush with clean water for 15 minutes. Hold eyelids apart to ensure flushing of the entire eye surface.

Inhalation: Move victim away from source of exposure and into fresh air. If irritation persists, seek medical attention. If victim is not breathing, artificial respiration should be administered.

Skin: Remove contaminated clothes. Cleanse affected area thoroughly with soap and water. If irritation persists, seek medical attention. Wash contaminated clothing.

Ingestion: Drink plenty water. Do not induce vomiting. If victim is drowsy or unconscious, place on left side with head down. Seek medical attention.

SECTION 5. FIRE FIGHTING MEASURES

Fire fighting measures: Use water fog, powder, foam, or CO₂ to extinguish fire.

Special Fire Fighting Procedures: Water spray to cool drums.

Explosive Properties:

LEL: 0.28%

UEL: 2.29%

SECTION 6. ACCIDENTAL RELEASE MEASURES

Steps to be taken if material is released or spilled: Use proper personal protective equipment. Stay upwind and away from spill. Keep all sources of ignition and hot metal surfaces away from spill. If spill is indoors, ventilate area. Keep out of drains, sewers or waterways. Vacuum or sweep up

material and place into a suitable disposal container. Use soda ash, lime, or other agent appropriate for neutralizing acidic solutions.

Waste disposal method: Dispose of according to local, state and federal regulations in an approved disposal facility or recycling facility.

SECTION 7. HANDLING AND STORAGE

Storage: Store in a well-ventilated area. Keep container tightly closed when not in use. Store in cool, dry area. Keep away from sources of ignition.

Handling: Use proper personal protective equipment. Avoid contact with skin or eyes. Avoid breathing of vapors. Handle in well-ventilated workspace. When handling do not eat, drink, or smoke.

Other precautions: Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat, flame, sparks or other sources of ignition.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: Keep work area well ventilated.

Protective clothing: Impermeable gloves and impervious clothing as appropriate.

Eye protection: Chemical goggles where splashing may occur.

Respiratory Protection: Use appropriate respiratory protection when handling or in case of insufficient ventilation.

Special Protection: Safety shower, eye bath, and washing facilities should be available.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Specific gravity @ 75°F (H₂O = 1): 1.665g/cm³

Flash Point: This material does not flash.

Viscosity: N/A

Vapor density (Air = 1): N/A

Solubility: 59.2% in water

Vapor pressure @ 75°F: N/A

Evaporation Rate: N/A

Appearance and Odor: Solid white odorless powder

Boiling Point: N/A

Melting Point: 153-154.5°F

Freezing Point: N/A

Octanol/Water Partition Coefficient: Log K:-1.72

pH (1% solution): 2.0-2.5

Auto-ignition: 1850 °F

SECTION 10. STABILITY AND REACTIVITY

Stability and Reactivity: Stable in normal conditions.

Incompatibility/Materials: Strong oxidizing agents, sulfides, metal nitrates, alkali carbonates, alkalis, potassium tartrate, acetates, bicarbonates.

Hazardous Decomposition Products: Smoke, carbon oxides.

Hazardous polymerization: Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Oral LD₅₀: 3 mg/kg (rats)

Inhalation LC₅₀: N/D

Skin: Draize test, rabbit, skin: 500 mg/24 hour: Mild

Eyes: Draize test, rabbit, eye: 750 ug/24 hour: Severe

Intravenous LD₅₀: 42 mg/kg (mouse)

Mutagenicity: N/D

Carcinogenicity: N/D



Reproductive/Developmental Effects: N/D
Repeated Exposure: N/D

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity:

LD₅₀ goldfish 625mg/L lifetime exposure in hard water, LD₁₀₀ goldfish 894 mg/L lifetime exposure in hard water

Environmental Fate

Degradation: N/D

Bioaccumulation: N/D

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal of waste materials: Incinerate or in compliance with local and federal regulations.

Disposal of waste containers: Recycle, clean out residues.

SECTION 14. TRANSPORT INFORMATION

DOT transport information: Non-Regulated

SECTION 15. REGULATORY INFORMATION

Toxic Substances Control Act (TCSA): All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

CERCLA RQ-40 CFR 302.4(a)

Component

None

CERCLA RQ (lbs)

SARA 302 Components-40 CFR 355 Appendix A

Component

None

TPQ(Threshold Planning Quantity) (lbs)

Section 311/312 Hazard Class-40 CFR 370.2

Immediate (X)

Delayed ()

Fire ()

Reactive ()

Sudden Release of Pressure ()

SARA 313-40 CFR 372.65

Component

None

CAS Number

%

SECTION 16. OTHER INFORMATION

NFPA RATING: Health (1) Fire (0) Reactivity (0)

Disclaimer:

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N/D= No data; N/A = Not available; N/E= Not established