

\*\*\*\*Material Safety Data Sheet\*\*\*\*  
Emergency Phone # : 1-800-424-9300  
Information Phone # : (715) 723-4915

High Sierra Chemical  
P O Box 822  
Chippewa Falls, WI 54729

Latest Revision Date...11/07/02  
Print Date.....01/02/03

**Citric Acid**

**SECTION 1 PRODUCT IDENTIFICATION**

---

Product Name or Number..... Citric Acid  
Trade Name or Chemical Name..... Citric Acid  
Synonyms..... None  
Formula..... Proprietary  
Chemical Family..... Acid Cleaner  
Molecular Weight..... N/A  
NFPA..... See Section 8  
HMIS Rating..... See Section 8

**SECTION 2 HAZARDOUS INGREDIENTS / HAZARD DATA**

---

Chemical Name(s)	CAS #	% WT	TLV-ACGIH	PEL-OSHA	SEC.313	NTP	IARC	PROP.65
2-Hydroxy-1,2,3 Propanetricarb	000077-92-9	<50	5.0 Mg/M3	5.0 Mg/M3	No	No	No	No

**SECTION 3 REGULATORY DATA**

---

NTP..... National Toxicology Program  
IARC..... International Agency For Research on Cancer  
This product does not contain ingredients on the list of  
Proposition 65.  
Proposition 65..... State of California safe drinking water and toxic enforcement act  
of 1986  
Section 313 Sara Title III..... The chemical(s) marked with a “yes” on section 313 are subject  
to the reporting requirements of this section

**SECTION 4 PHYSICAL DATA**

---

Boiling/Melting Point.....  $\geq 212^{\circ}$  F  
pH..... <4.0  
Percent Volatile by Weight (%)..... 50%  
Specific Gravity or Bulk Density..... 1.25  
Solubility in Water..... Soluble  
Appearance..... Clear Liquid  
Odor..... None

**SECTION 5 FIRE AND EXPLOSION HAZARD DATA**

---

Flash Point ° F (Test Method)..... N/A  
Autoignition Temperature..... N/A  
Flammability Limits in Air (% V)..... Not Determined  
Extinguishing Media..... Water, Foam, Carbon Dioxide, Dry Chemical  
Special Fire Fighting Procedures..... Wear self contained Breathing Apparatus and full protective equipment.  
Unusual Fire and Explosion Hazards... Extinguish all nearby sources of ignition.

**SECTION 6 HEALTH HAZARD DATA \* EFFECTS OF OVEREXPOSURE**

---

Threshold Limit Value..... See Section 2  
SIGNS OF OVEREXPOSURE:  
Eyes..... Direct contact with concentrated product may cause moderate irritation and tearing.  
Skin..... Repeated or prolonged contact may cause irritation or drying.  
Inhalation..... Breathing dust or mist may irritate the nose and throat.  
Ingestion..... Swallowing large quantities may cause nausea, vomiting, diarrhea, and abdominal pain.  
Chronic..... None known.

**SECTION 7 EMERGENCY AND FIRST AID PROCEDURES**

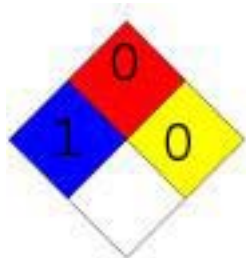
---

Inhalation..... Remove victim to fresh air. If breathing is difficult, assist breathing. Seek medical help.  
Eye Contact..... Immediately flush eyes with large quantities of water. Remove any contact lenses and continue to flush with water for at least 15 minutes. Contact a physician.  
Skin Contact..... Immediately wash skin with large quantities of water for at least 15 minutes. Remove contaminated clothing and footwear. Get medical attention. Wash clothing before reuse.  
Ingestion..... Never give anything by mouth to an unconscious person. Do not induce vomiting. Give large quantities of water. Get medical attention immediately.

**SECTION 8 HMIS RATING SYSTEM**

---

NFPA



HMIS RATING

Health Hazard.....1  
Fire Hazard.....0  
Reactivity.....0  
Personal Protection.....See Section 10

**SECTION 9****REACTIVITY DATA**

---

Product Stability.....	Stable
Conditions to Avoid.....	
Chemical Incompatibility.....	Strong acid, acid vapor. May produce carbon dioxide, carbon monoxide.
Hazardous Decomposition Products.....	
Hazardous Polymerization.....	Will not occur
Conditions to Avoid.....	Extreme heat, spark, open flame
Corrosive to Metal.....	No
Oxidizer.....	No

**SECTION 10****SPECIAL PROTECTION INFORMATION**

---

Respiratory Protection.....	Not needed
Ventilation.....	Local exhaust needed.
Protective Clothing.....	Safety glasses, neoprene or rubber gloves.

**SECTION 11****ENVIRONMENTAL DATA**

---

Environmental Toxicity Data.....	None known
Spill or Leak Procedures.....	Contain, collect, and dispose per local, state, and federal regulations
Waste Disposal Method.....	Per local, state, and federal regulations.
Container Disposal.....	Per local, state, and federal regulations.

**SECTION 12****SHIPPING DATA**

---

D.O.T. Proper Shipping Name.....	None
Hazardous Substance 49CFR cercla.....	NA
D.O.T. Hazard Class.....	Not regulated
D.O.T. Labels Required.....	None
D.O.T. Placards Required.....	None
Poison Constituent.....	None
Bill of Lading Description.....	Citric Acid
Packing Group.....	None
UN/NA Code.....	Non-hazardous

**SECTION 13****SUPPLIER INFORMATION**

---

While Custom Chemical Formulators believes the statements set forth herein are accurate as of the date hereof, Custom Chemical Formulators makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data are offered solely for your consideration, investigation, and verification.