

SAFETY DATA SHEET

SECTION I: IDENTIFICATION



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Hours of Operation M-F 8-4:30 EST

Trade Name...: CITRIC ACID ANHYDROUS Cas No. : 77-92-9
Chemical Name: CITRIC ACID, ANHYDROUS
Synonyms.....: SEQUESTERING AGENT

1. HAZARDOUS INGREDIENTS

Table with 5 columns: Material, %, CAS#, ACGIH (TLV), OSHA (PEL). Row 1: CITRIC ACID, ANHYDROUS, 100%, [77-92-9], 10 MG/M3, 15 MG/M3

Table with 2 columns: Hazard Category, Rating. Rows: NFPA Fire Hazards Code (Minimal... 0), Health (2), Slight (1), Fire (1), Moderate (2), Reactivity (0), Serious (3), Specific (N.A.), Severe (4)

2. PHYSICAL DATA

Appearance.....: WHITE CRYSTALS
Odor.....: NO ODOR.
Melt Point.....: 153 C.
Specific Gravity.....: 1.7 @ 4 C.
Vapor Density (Air=1): N.E.
% Volatile by Volume.: N.A.
% V.O.C.'s.....: N.E.
Bulk Density.....: 56.2 LB/FT3.
Boiling Point.....: DECOMPOSES.
Vapor Pressure.....: N.A.
% Solubility.....: VERY SOLUBLE.

3. FIRE AND EXPLOSION HAZARD DATA

Flash Point & Method: N.E.

Flammable Limits LEL: N.E. UEL: N.E.

Extinguishing Media: WATER, ALCOHOL FOAM, CO2, DRY CHEMICAL.

Special Fire Fighting Procedures...: FIRE FIGHTERS SHOULD USE SELF CONTAINED BREATHING APPARATUS WITH FULL FACE SHIELD WHENEVER THERE IS A POSSIBILITY OF EXPOSURE TO HAZARDOUS DECOMPOSITION PRODUCTS.

Unusual Fire and Explosion Hazards: NONE KNOWN.

4. PHYSIOLOGICAL EFFECTS

LD50 Oral (ingestion).....: 6730 MG/KG RAT
LD50 Dermal (Skin Contact): 500 MG/24 HR
LC50 (Inhalation).....: NE
Primary Route Of Exposure.: SKIN, EYES AND INHALATION
Threshold Limit Value.....: NE

Effects of Overexposure

Acute: INHALATION: MAY CAUSE GASTROINTESTINAL IRRITATION WITH NAUSEA, VOMITING AND DIARRHEA. CITRIC ACID DECREASES IRON AND CALCIUM ABSORPTION.

EYE: CONTACT WITH EYES MAY CAUSE SEVERE IRRITATION, AND POSSIBLE BURNS.
SKIN: MAY CAUSE SKIN IRRITATION.

INGESTION: MAY CAUSE GASTROINTESTINAL IRRITATION WITH NAUSEA, VOMITING AND DIARRHEA.

CARCINOGENICITY: IARC, NTP, AND OSHA DO NOT LIST CITRIC ACID AS A CARCINOGEN.

Chronic: CHRONIC OR HEAVY ACUTE INGESTION MAY CAUSE TOOTH ENAMEL EROSION.

5. EMERGENCY AND FIRST AID PROCEDURES

: EYES.....: FLUSH EYES WITH CLEAR WATER FOR 15 MIN. SEEK MEDICAL ATTENTION.
SKIN.....: WASH EXPOSED AREAS WITH SOAP AND WATER FOR AT LEAST 15 MIN.
INGESTION.: GIVE 2-4 CUPFULS OF MILK OR WATER. GET MEDICAL AID.
INHALATION: SHOULD VICTIM EXHIBIT SIGNS OF NAUSEA, RESPIRATORY IRRITATION OR HEADACHES REMOVE TO FRESH AIR AND CONSULT PHYSICIAN.

6. PHYSICAL HAZARDS

: CAUSES RESPIRATORY TRACT IRRITATION. CAUSES SKIN IRRITATION. CAUSES DIGESTIVE TRACT IRRITATION. MAY CAUSE SEVERE EYE IRRITATION AND POSSIBLY INJURY.

7. SPECIAL PROTECTION INFORMATION

Ventilation: GENERAL OR LOCAL EXHAUST VENTILATION SYSTEMS TO MAINTAIN AIRBORNE CONCENTRATIONS BELOW OSHA PELs.

Respiratory: SEEK PROFESSIONAL ADVICE PRIOR TO RESPIRATOR SELECTION AND USE. FOLLOW OSHA RESPIRATOR REGULATIONS (29 CFR 1910.134) AND IF NECESSARY, WEAR A MSHA/NIOSH-APPROVED RESPIRATOR.

Eye Protection...: CHEMICAL SAFETY GOGGLES.

Protective Gloves: RUBBER OR NEOPRENE.

Other.....: PROTECTIVE IMPERVIOUS CLOTHING. EMERGENCY EYE WASH STATION.

All chemicals should be handled so as to prevent eye contact and excessive or repeated skin contact. Appropriate eye and skin protection should be employed. Inhalation of dusts and vapors should be avoided.

8. CHEMICAL REACTIVITY

Conditions Causing Instability.....: STABLE PRODUCT UNDER NORMAL STORAGE AND HANDLING CONDITIONS. ANHYDROUS CITRIC ACID READILY ABSORBS MOISTURE FROM AIR.

Incompatibility (Materials To Avoid): POTASSIUM TARTRATE, ALKALI AND ALKALINE EARTH CARBONATES AND BICARBONATES, ACETATES, SULFITES, AND METAL NITRATES (POTENTIALLY EXPLOSIVE REACTION). CITRIC ACID CORRODES COPPER, ZINC, ALUMINUM, AND THEIR ALLOYS.

Hazardous Decomposition Products: THERMAL OXIDATIVE DECOMPOSITION OF CITRIC ACID CAN PRODUCE ACRID, IRRITATING SMOKE AND CARBON MONOXIDE, CARBON DIOXIDE.

Special sensitivity.....: AVOID DISPERSING POWDER IN THE AIR, CONTACT WITH INCOMPATIBLES, AND EXPOSURE TO HEAT AND IGNITION SOURCES.

9. STORAGE INFORMATION

Precautions To Be Taken In Handling And Storing: STORE IN COOL DRY AREA WITH LID INTACT.

10. SPILL, LEAK AND DISPOSAL INFORMATION

Steps To Be Taken In Case Material Is Spilled Or Released: SCOOP UP EXCESS AND PLACE IN APPROPRIATE CONTAINER. RINSE RESIDUE WITH CLEAR WATER INTO APPROVED DRAIN. FOLLOW APPLICABLE OSHA REGULATIONS (29 CFR 1920.120)

Waste Disposal Method: IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

11. SHIPPING INFORMATION

DOT Shipping Name..... : NOT APPLICABLE.

Technical Shipping Name..... : NOT APPLICABLE.

DOT Hazard Classification

Primary..... : NOT APPLICABLE.

Secondary..... : NOT APPLICABLE.

Freight Classification..... : NOT APPLICABLE.

UN Number..... : NOT APPLICABLE.

IMO Hazard Class..... : NOT APPLICABLE.

DOT Labels Required..... : COMMUNITY RIGHT TO KNOW LABEL.

EPA/DOT Hazardous Substances Rq: NOT DOT REGULATED.

12. OTHER GOVERNMENT REGULATIONS

: COMMUNITY RIGHT TO KNOW LABEL:

CITRIC ACID, ANHYDROUS CAS# [77-92-9] 100%

TSCA: IN COMPLIANCE.

SARA 311/312: ACUTE SARA 313: NO CHEMICALS ARE REPORTABLE UNDER SECTION 313

CLEAN AIR ACT: THIS MATERIAL DOES NOT CONTAIN ANY HAZARDOUS AIR POLLUTANTS.

CLEAN WATER ACT: NOT LISTED.

13. ADDITIONAL COMMENTS

: INTENDED FOR USE WITH TEXTILES ONLY. NOT FOR USE IN FOOD PREPARATION

OSHA: NONE OF THE CHEMICALS IN THIS PRODUCT ARE CONSIDERED HIGHLY HAZARDOUS BY OSHA.

CALIFORNIA NO SIGNIFICANT RISK LEVEL: NONE OF THE CHEMICALS IN THIS PRODUCT ARE LISTED.

DISCLAIMER

Information contained herein is, to our best knowledge, true and accurate. It is offered for information only, as we cannot guarantee the results of processes not under our direct control.

Prepared By.: Gregory Driscoll Date.....: MAY 6, 2010

Telephone No.: (860)974-9918 Supersedes MSDS Dated: JANUARY 16, 2008

N.E: Not Established

N.A: Not Applicable

