

LOS ANGELES CHEMICAL CO -- CITRIC ACID, ANHYDROUS

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MSDS Safety Information  
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FSC: 6810  
NIIN: 01-164-3975  
MSDS Date: 11/29/1993  
MSDS Num: CHQMD  
Product ID: CITRIC ACID, ANHYDROUS  
MFN: 01  
Responsible Party  
Cage: 75656  
Name: LOS ANGELES CHEMICAL CO  
Address: 4545 ARDINE STREET  
Box: 1987  
City: SOUTH GATE CA 90280-2534  
Info Phone Number: 213-583-4761 / FAX 213-773-0909  
Emergency Phone Number: 213-583-4761  
Review Ind: Y  
Published: Y

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Contractor Summary  
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Cage: 75656  
Name: LOS ANGELES CHEMICAL CO  
Address: 4545 ARDINE ST  
Box: 1987  
City: SOUTH GATE CA 90280  
Phone: 213-562-9500

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Item Description Information  
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Item Manager: S9G  
Item Name: CITRIC ACID, ANHYDROUS, TECHNICAL  
Unit of Issue: BT  
Quantitative Expression: 00000000012OZ  
UI Container Qty: 1  
Type of Container: BOTTLE

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Ingredients  
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Cas: 77-92-9  
RTECS #: GE7350000  
Name: CITRIC ACID  
% Wt: 100  
Other REC Limits: NONE RECOMMENDED  
OSHA PEL: NOT ESTABLISHED  
ACGIH TLV: NOT ESTABLISHED  
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Health Hazards Data

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LD50 LC50 Mixture: NOT GIVEN FOR PRODUCT AS A WHOLE

Route Of Entry Inds - Inhalation: YES

Skin: YES

Ingestion: NO

Carcinogenicity Inds - NTP: NO

IARC: NO

OSHA: NO

Effects of Exposure: MODERATELY IRRITATING TO SKIN AND SEVERELY IRRITATING TO THE EYES. INHALATION MAY CAUSE MINOR RESPIRATORY TRACT IRRITATION & COUGH. INGESTION OF LARGE QUANTITIES MAY RESULT IN HYPOCALCEMIA (CALCIUM DEFICIENCY IN BLOOD).

CHRONIC OR HEAVY ACUTE INGESTION MAY CAUSE TOOTH ENAMEL EROSION.

Explanation Of Carcinogenicity: THIS COMPOUND CONTAINS NO INGREDIENTS AT CONCENTRATIONS OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT CARCINOGENS.

Signs And Symptoms Of Overexposure: SKIN IRRITATION, EYE IRRITATION, CONJUNCTIVAL ULCERATION OF CORNEA, RESPIRATORY TRACT IRRITATION, COUGH, CALCIUM DEFICIENCY IN BLOOD, TOOTH EROSION.

Medical Cond Aggravated By Exposure: NONE SPECIFIED BY MANUFACTURER.

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First Aid: EYES: FLUSH WITH WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP & WATER. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION. INHALATION: REMOVE TO FRESH AIR. RESTORE BREATHING. GET MEDICAL ATTENTION. INGESTION: NEVER GIVE ANYTHING BY MOUTH IF UNCONSCIOUS. CONTACT POISON CONTROL CENTER. DRINK 1-2 GLASSES OF WATER, INDUCE VOMITING

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Handling and Disposal

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Spill Release Procedures: ISOLATE AND VENTILATE AREA. SHUT OFF ALL IGNITION SOURCES. CLEANUP PERSONNEL SHOULD PROTECT AGAINST DUST INHALATION & SKIN/EYE CONTACT. DO NOT SWEEP UP. WET DOWN AND SCOOP INTO SUITABLE CONTAINERS.

Neutralizing Agent: LIME CAN BE ADDED TO NEUTRALIZE & PRECIPITATE CALCIUM CITRATE FROM SOLUTION.

Waste Disposal Methods: PREVENT WASTE FROM CONTAMINATING SURROUNDING ENVIRONMENT. DISCARD ANY PRODUCT,

RESIDUE, DISPOSAL CONTAINER OR LINER IN

ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

Handling And Storage Precautions: PREVENT PHYSICAL DAMAGE TO CONTAINERS. STORE IN COOL, DRY, WELL-VENTILATED AREA AWAY FROM HEAT, IGNITION SOURCES AND INCOMPATIBLES.

Other Precautions: DO NOT STORE IN CONTAINERS MADE OF COPPER, ALUMINUM OR THEIR ALLOYS. CONSIDER PREPLACEMENT AND PERIODIC MEDICAL EXAMS OF EXPOSED WORKERS.

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Fire and Explos  
ion Hazard Information

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Flash Point Text: COMBUSTIBLESOLID

Autoignition Temp Text: 1850F

Lower Limits: 0.26 KG/M3

Upper Limits: 2.29 KG/M3

Extinguishing Media: FOAM, CARBON DIOXIDE, DRY CHEMICAL, WATER SPRAY

Fire Fighting Procedures: FIRE FIGHTERS SHOULD WEAR SELF CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. COOL TANKS AND CONTAINERS EXPOSED TO FIRE WITH WATER.

Unusual Fire/Explosion Hazard: WHEN IN FINELY DIVIDED POWDER FORM

, CITRIC ACID

IS AN EXPLOSION HAZARD. THE UPPER AND LOWER AIR EXPLOSION LIMIT VALUES ARE FOR DUST IN AIR.

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Control Measures

Respiratory Protection: THE USE OF A DUST MASK SHOULD BE SUFFICIENT FOR PROTECTION AGAINST INHALATION OF CITRIC ACID PARTICULATES. IF RESPIRATORS ARE USED, OSHA REQUIRES A WRITTEN RESPIRATORY PROTECTION PROGRAM.

Ventilation: EXHAUST VENTILATION SUFFICIENT TO KEEP AIRBORNE CONCENTRATIONS BELOW RESPECTIVE TLV'S.

Protective Gloves: CHEMICALLY PROTECTIVE

Eye Protection: CHEMICAL GOGGLES, SAFETY GLASSES W/SIDES

Other Protective Equipment: CHEMICAL RESISTANT CLOTHING AS NECESSARY TO PREVENT SKIN CONTACT. AN EMERGENCY EYEWASH AND SHOWER SHOULD BE AVAILABLE.

Work Hygienic Practices: WASH HANDS THOROUGHLY WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES.

Supplemental Safety and Health: REMOVE AND WASH CONTAMINATED CLOTHING BEFORE REUSE.

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Physical/Chemical Properties

HCC: C3

B.P. Text: DECOMPOSES

M.P/F.P Text: 307F, 153C

Decomp Text: NOT GIVEN

Vapor Pres: NEGLIGIBLE

Vapor Density: NOT GIVEN

Spec Gravity: 1.665

PH: ACIDIC

Viscosity: NOT GIVEN

Evaporation Rate & Reference: NOT GIVEN

Solubility in Water: APPRECIABLE

Appearance and Odor: ODORLESS, COLORLESS, TRANSLUCENT CRYSTALS OR WHITE GRANULES,

STRONG ACID TASTE  
Corrosion Rate: UNKNOWN

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Reactivity Data  
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Stability Indicator: YES

Stability Condition To Avoid: DISPERSING POWDER IN AIR, CONTACT WITH  
INCOMPATIBLES, EXPOSURE TO HEAT & IGNITION SOURCES.

Materials To Avoid: POTASSIUM TARTRATE, ALKALI & ALKALINE EARTH CARBONATES &  
BICARBONATES, ACETATES, SULFITES, METAL NITRATES.

Hazardous Decomposition Products: ACRID IRRITATING  
SMOKE

Hazardous Polymerization Indicator: NO

Conditions To Avoid Polymerization: ANHYDROUS CITRIC ACID READILY ABSORBS  
MOISTURE FROM AIR. DILUTE AQUEOUS SOLUTION MAY FERMENT TO OXALIC ACID.

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Toxicological Information  
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Ecological Information  
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MSDS Transport Information  
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Regulatory Information  
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Other Information  
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Transportation Information  
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Responsible Party Code: 75656

Trans ID NO: 112386

Product ID: CITRIC ACID, ANHYDROUS

MSDS Prepared Date: 11/29/1993

Review Date: 07/09/1998

MFN: 1

Net Unit Weight: 12 OUNCES

Multiple KIT Number: 0

Review IND: Y

Unit Of Issue: BT

Container QTY: 1

Type Of Container: BOTTLE  
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Detail DOT Information  
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DOT PSN Code: ZZZ

DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRAN

SPORTATION

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Detail IMO Information  
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IMO PSN Code: ZZZ  
IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION  
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Detail IATA Information  
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IATA PSN Code: ZZZ  
IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION  
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Detail AFI Information  
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AFI PSN Code: ZZZ  
AFI Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION  
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=====  
HAZCOM Label  
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Product ID: CITRIC ACID, ANHYDROUS  
Cage: 75656  
Company Name: LOS ANGELES CHEMICAL CO  
Street: 4545 ARDINE ST  
PO Box: 1987  
City: SOUTH GATE CA  
Zipcode: 90280  
Health Emergency Phone: 213-583-4761  
Label Required IND: Y  
Date Of Label Review: 07/09/1998  
Status Code: C  
MFG Label NO: NONE  
Label Date: 07/09/1998  
Origination Code: F  
Eye Protection IND: YES  
Skin Protection IND: YES  
Signal Word: CAUTION  
Health Hazard: Slight  
Contact Hazard: Slight  
Fire Hazard: None  
Reactivity Hazard: Slight  
Hazard And Precautions: PREVENT PHYSICAL DAMAGE TO CONTAINERS. STORE IN COOL, DRY, WELL-VENTILATED AREA AWAY FROM HEAT, IGNITION SOURCES AND INCOMPATIBLES.  
FIRST AID: EYES: FLUSH WITH WATER FOR 15

MINUTES WHILE HOLDING EYELIDS OPEN.

GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP & WATER. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION. INHALATION: REMOVE TO FRESH AIR. RESTORE BREATHING. GET MEDICAL ATTENTION. INGESTION: NEVER GIVE ANYTHING BY MOUTH IF UNCONSCIOUS. CONTACT POISON CONTROL CENTER. DRINK 1-2 GLASSES OF WATER, INDUCE VOMITING.

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