

LOS ANGELES CHEMICAL CO -- SULFURIC ACID,CONCENTRATED

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MSDS Safety Information  
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FSC: 6810  
NIIN: 00-975-0707  
MSDS Date: 06/18/1993  
MSDS Num: BYDJV  
Product ID: SULFURIC ACID,CONCENTRATED  
MFN: 01  
Responsible Party  
Cage: 75656  
Name: LOS ANGELES CHEMICAL CO  
Address: 4545 ARDINE STREET  
City: SOUTH GATE C  
A 90280  
Info Phone Number: 213-583-4761/800-356-3129 (POISON)  
Emergency Phone Number: 213-562-9500  
Preparer's Name: B. MARTINEZ  
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: SULFURIC ACID,TECHNICAL  
Specification Number: A-A55828  
Type/Grade/Class: TY I, CL 2  
Unit of Issue: DR  
Quantitative Expression: 00000000013GL  
UI Container Qty: 0  
Type of Container: DRUM

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Ingredients  
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Cas: 7664-93-9  
RTECS #: WS5600000  
Name: SULFURIC ACID (SARA 302/313) (CERCLA)  
% low Wt: 93.  
% high Wt: 98.  
Other REC Limits:

NONE RECOMMENDED

OSHA PEL: 1 MG/M3

ACGIH TLV: 1 MG/M3/3 STEL; 9495

EPA Rpt Qty: 1000 LBS

DOT Rpt Qty: 1000 LBS

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Cas: 7732-18-5

RTECS #: ZC0110000

Name: WATER

% Wt: BALANCE

Other REC Limits: NONE RECOMMENDED

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Health Hazards Data  
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LD50 LC50 Mixture: LD50 (ORAL, RAT): 2140 MG/M3

Route Of Entry Inds - Inhalation: YES

Skin: YES

Ingestion: YES

Carcinogenicity In

ds - NTP: NO

IARC: NO

OSHA: NO

Effects of Exposure: CONCENTRATED SULFURIC ACID IS A STRONG MINERAL ACID, AN OXIDIZING AGENT AND A DEHYDRATING AGENT THAT IS RAPIDLY DAMAGING TO ALL HUMAN TISSUE ON CONTACT. INGESTION MAY CAUSE SEVERE INJURY OR DEATH. EYE CONTACT PRODUCES SEVERE OR PERMANENT INJURY. INHALATION OF MISTS CAN DAMAGE BOTH UPPER RESPIRATORY TRACT AND LUNGS.

Explanation Of Carcinogenicity: THIS PRODUCT IS NOT CONSIDERED A CARCINOGEN BY NTP, IARC OR OSHA.

First Aid: EYE

CONTACT: IMMEDIATELY FLUSH WITH PLENTY OF RUNNING WATER FOR AT LEAST 15 MINUTES. OBTAIN MEDICAL HELP AS SOON AS POSSIBLE. SKIN CONTACT: IMMEDIATELY FLUSH AREAS WITH WATER, REMOVING CONTAMINATED CLOTHES WHILE UNDER A SAFETY SHOWER. CONTINUE WASHING WITH WATER AND GET MEDICAL ATTENTION. INHALATION: REMOVE TO FRESH AIR. RESTORE BREATHING. CALL A PHYSICIAN IMMEDIATELY. INGESTION: DILUTE ACID IMMEDIATELY WITH LARGE AMOUNTS OF MILK OR WATER, THEN MILK OF MAGNESIA. NEVER GIVE ANYTHING BY MOUTH IF VICTIM UNCONSCIOUS. DO NOT INDUCE VOMITING! GET IMMEDIATE MEDICAL ATTENTION.

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Handling and Disposal  
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Spill Release Procedures: NOTIFY SAFETY PERSONNEL. PROVIDE VENTILATION. STOP LEAK IF CAN BE DONE WITHOUT RISK. CLEAN-UP PERSONNEL NEED RESPIRATORY PROTECTION AND PROTECTION AGAINST CONTACT. KEEP UPWIND. CONTAIN SPILL. DILUTE WITH WATER THEN NEUTRALIZE

WITH SODA ASH OR LIME. IF NO WATER, COVER  
CONTAMINATED AREA WITH SAND, ASHES OR GRAVEL AND NEUTRALIZE CAUTIOUSLY WITH  
SODA ASH OR LIME.

Neutralizing Agent: SODIUM BICARBONATE OR A SODA ASH.

Waste Disposal Methods: FOLLOW FEDERAL, STATE AND LOCAL REGULATIONS. RUNOFF TO  
SEWER MAY CREATE HYDROGEN GAS, WHICH IS A FIRE OR EXPLOSION HAZARD. EPA  
(CWA) RQ=1000 LBS (40 CFR 117).

Handling And Storage Precautions: SULFURIC ACID IN CARBOYS OR DRUMS SHOULD BE  
STORED IN A CLEAN, VENTILATED S  
TORAGE AREA HAVING ACID-RESISTANT FLOORS.

KEEP OUT OF DIRECT SUNLIGHT. DO NOT STORE ABOVE 89.6F (32C). STORE AWAY  
FROM INCOMPATIBLE MATERIALS. SODA ASH, SAND OR LIME SHOULD BE KEPT  
AVAILABLE FOR EMERGENCY USE.

Other Precautions: PROTECT CONTAINERS AGAINST PHYSICAL DAMAGE. GLASS BOTTLES  
NEED EXTRA PROTECTION. DO NOT ADD WATER TO SULFURIC ACID. DRUMS MAY CONTAIN  
HYDROGEN GAS, OPEN CAUTIOUSLY. USE NONSPARKING TOOLS FREE OF OIL, DIRT &  
GRIT; VAPOR-PROOF ELECTRICAL FIXTURES. AVOID BREATHING MIST OR VAPORS. AVOID  
CONTACT WITH SKIN /EYES. DO NOT INGEST.

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Fire and Explosion Hazard Information  
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Flash Point Text: NONE

Extinguishing Media: SMALL FIRES MAY BE SMOTHERED WITH SUITABLE DRY CHEMICAL.  
COOL EXTERIOR OF SULFURIC ACID STORAGE TANKS WITH WATER TO PREVENT RUPTURE  
IF EXPOSED TO FIRE.

Fire Fighting Procedures: FIRE FIGHTERS MUST WEAR SELF-CONTAINED BREATHING

EQUIPMENT AND FULLY PROTECTIVE CLOTHING.

Unusual Fire/Explosion Hazard: THE ACID, ESPECIALLY WHEN DILUTED WITH WATER,  
CAN REACT WITH METALS TO LIBERATE FLAMMABLE HYDROGEN GAS. SULFURIC ACID  
MISTS & VAPORS ARE CORROSIVE. SULFURIC ACID MISTS AND VAPORS FROM A  
FIRE AREA ARE CORROSIVE.

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Control Measures  
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Respiratory Protection: WHERE MISTS ARE UP TO 50 MG/M3, A HIGH EFFICI  
ENCY

PARTICULATE RESPIRATOR WITH FULL FACEPIECE IS WARRANTED; A TYPE-C SUPPLIED  
AIR RESPIRATOR WITH FULL FACEPIECE OPERATED IN PRESSURE DEMAND MODE IS  
USED TO 100 MG/M3.

Ventilation: PROVIDE GENERAL VENTILATION TO MEET CURRENT TLV REQUIREMENTS IN  
THE WORKPLACE.

Protective Gloves: ACID RESISTANT GLOVES-PVC, NEOPRENE, RUBBER.

Eye Protection: CHEMICAL SPLASH GOGGLES AND/OR FACE SHIELD.

Other Protective Equipment: ACID-RESISTANT PROTECTIVE COTHING SUCH AS RUBBER  
APRONS, BOOTS AND SUIT

S IS RECOMMENDED. EYE WASH FOUNTAIN AND SAFETY SHOWERS WITH DELUGE HEADS SHOULD BE READILY AVAILABLE. Supplemental Safety and Health: AVOID PROLONGED OR REPEATED EXPOSURE. DO NOT GET ON SKIN OR IN EYES. DO NOT BREATHE VAPORS OR MISTS.

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Physical/Chemical Properties  
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HCC: C1  
Boiling Point: =281.C, 537.8F  
Melt/Freeze Pt: =-33.7C, -29.F  
Vapor Pres: &lt;1 MM HG @ 100F  
Vapor Density: 6  
6 DEG BE  
Spec Gravity: 1.8354 - 1.84  
PH: &lt;1  
Solubility in Water: COMPLETELY MISCIBLE  
Appearance and Odor: CLEAR, COLORLESS, HYGROSCOPIC, OILY LIQUID; ODORLESS  
Percent Volatiles by Volume: 100

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Reactivity Data  
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Stability Indicator: YES  
Stability Condition To Avoid: HIGH HEAT, OPEN FLAMES AND OTHER SOURCES OF IGNITION  
Materials To Avoid: BASES, METALS. SULFURIC ACID IS A DEHYDRATING AGENT,  
PICKING MOISTURE READILY FROM AIR OR OTHER MATERIALS. REACTS EXOTHERMICALLY WITH WATER.  
Hazardous Decomposition Products: OXIDES OF SULFUR AND HYDROGEN.  
Hazardous Polymerization Indicator: NO  
Conditions To Avoid Polymerization: HAZARDOUS POLYMERIZATION DOES NOT OCCUR.

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Toxicological Information  
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Ecological Information  
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MSDS Transport Information  
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Transport Information: LABEL: CORROSIVE. DOT CLASS: CORROSIVE MATERIAL. UN REGISTER: UN1830.

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Regulatory Information  
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Other Informati

on

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Other Information: NFPA HAZARD RATINGS: FLAMMABILITY=0; HEALTH=3; REACTIVITY=2;  
SPECIAL=W.  
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Transportation Information  
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Responsible Party Code: 75656  
Trans ID NO: 96064  
Product ID: SULFURIC ACID,CONCENTRATED  
MSDS Prepared Date: 06/18/1993  
Review Date: 03/28/2000  
MFN: 1  
Net Unit Weight: 199 LBS  
Multiple KIT Number: 0  
Review I  
ND: Y  
Unit Of Issue: DR  
Container QTY: 0  
Type Of Container: DRUM  
Additional Data: SULFURIC ACID CONCENTRATIONS: 93-98%. UN NUMBER, PER MSDS.  
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Detail DOT Information  
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DOT PSN Code: NUC  
DOT Proper Shipping Name: SULFURIC ACID  
DOT PSN Modifier: WITH MORE THAN 51 PERCENT ACID  
Hazard Class: 8  
UN ID Num: UN1830  
DOT Packaging Group: II  
Label: CORROSIVE  
Special Provision: A3,A7,B3,B83,B84,N34,T  
9,T27  
Packaging Exception: 154  
Non Bulk Pack: 202  
Bulk Pack: 242  
Max Qty Pass: 1 L  
Max Qty Cargo: 30 L  
Vessel Stow Req: C  
Water/Ship/Other Req: 14  
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Detail IMO Information  
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IMO PSN Code: OFJ  
IMO Proper Shipping Name: SULPHURIC ACID  
IMO PSN Modifier: ,WITH MORE THAN 51% ACID  
IMDG Page Number: 8230  
UN Number: 1830  
UN Hazard Class: 8  
IMO Packaging Group: II  
Subsidiary Risk Label: -  
EMS Numb

er: 8-06  
MED First Aid Guide NUM: 700

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Detail IATA Information  
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IATA PSN Code: XIX  
IATA UN ID Num: 1830  
IATA Proper Shipping Name: SULPHURIC ACID  
IATA PSN Modifier: WITH MORE THAN 51% ACID  
IATA UN Class: 8  
IATA Label: CORROSIVE  
UN Packing Group: II  
Packing Note Passenger: 809  
Max Quant Pass: 1L  
Max Quant Cargo: 30L  
Packaging Note Cargo: 813  
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Detail AFI Information  
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AFI PSN Code: XIX  
AFI Proper Shipping Name: SULPHURIC ACID  
AFI PSN Modifier: WITH MORE THAN 51% ACID  
AFI Hazard Class: 8  
AFI UN ID NUM: UN1830  
AFI Packing Group: II  
Special Provisions: P4, A3, A7, N34  
Back Pack Reference: A12.3  
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HAZCOM Label  
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Product ID: SULFURIC ACID,CONCENTRATED  
Cage: 75656  
Compa  
ny Name: LOS ANGELES CHEMICAL CO  
Street: 4545 ARDINE ST  
PO Box: 1987  
City: SOUTH GATE CA  
Zipcode: 90280  
Health Emergency Phone: 213-562-9500  
Label Required IND: Y  
Date Of Label Review: 03/28/2000  
Status Code: C  
Year Procured: 2000  
Origination Code: F  
Chronic Hazard IND: Y  
Eye Protection IND: YES  
Skin Protection IND: YES  
Signal Word: DANGER  
Respiratory Protection IND: YES  
Health Hazard: Slight  
Contact Hazard: Severe  
Fire Hazard: None  
Reactivity Hazard: Slight  
Hazard And Precautions: CORROSIVE! SU

LFURIC ACID IS RAPIDLY DAMAGING TO ALL HUMAN TISSUE ON CONTACT.INGESTION MAY CAUSE SEVERE INJURY OR DEATH.EYE CONTACT PRODUCES SEVERE OR PERMANENT INJURY.INHALATION OF MISTS CAN DAMAGE BOTH UPPER RESPIRATORY TRACT& LUNGS.FIRSTAID:INHALATION-REMOVE TO FRESH AIR.RESTORE BREATHING IF NEEDED.GET MEDICAL ATTN.EYES-FLUSH WITH LOTS OF WATER FOR 15 MINUTES,LIFT LIDS.GET MEDICAL AT TN.SKIN-REMOVE CONTAMINATED CLOTHING.WASH WITH LOTS OF WATER FOR 15 MINUTES.GET MEDICAL ADVIC  
E.INGESTION-DO NOT INDUCE VOMITING!!IF CONSCIOUS,GIVE MILK OR WATER,THEN MILK OF MAGNESIA.GET IMMEDIATE MEDICAL ATTN. TARGET ORGANS: NONE GIVEN.

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