View NSN Online: https://aerobasegroup.com/nsn/6810-00-975-0707

## 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

CA 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: 0000000013GL

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

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 I nds - 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 CONTAMINATD 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 A CID 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. DILU TE 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

STORAGE 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,DI RT & amp; 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 BREATHIN G

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 & SAMP; 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 EFFIC IENCY

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 SUI

TS 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. \_\_\_\_\_ Physical/Chemical Properties HCC: C1 Boiling Point: =281.C. 537.8F Melt/Freeze Pt: =-33.7C, -29.F Vapor Pres: <1 MM HG @ 100F Vapor Density: 66 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 \_\_\_\_\_ Reactivity Data \_\_\_\_\_\_ 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. \_\_\_\_\_ **Toxicological Information** \_\_\_\_\_ \_\_\_\_\_\_ **Ecological Informatio** \_\_\_\_\_\_ \_\_\_\_\_ **MSDS** Transport Information \_\_\_\_\_ Transport Information: LABEL: CORROSIVE. DOT CLASS: CORROSIVE MATERIAL. UN REGISTER: UN1830. \_\_\_\_\_ Regulatory Information \_\_\_\_\_

Other Informat

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Other Information: NFPA HAZARD RATINGS: FLAMMABILITY=0; HEALTH=3; REACTIVITY=2;

SPEACIAL=W.

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Transportation Information

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Responsible Party Cage: 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 IND: 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,

T9,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 Num** 

ber: 8-06

MED First Aid Guide NUM: 700

## 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

Comp

any 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

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Hazard And Precautions: CORROSIVE! S

ULFURIC 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 DAMAG E 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 ADVI

CE.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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