

POLYCHEM CORP -- SULFURIC ACID, 50% -- 6810-00-823-8007

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Product Identification
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Product ID:SULFURIC ACID, 50%

MSDS Date:04/26/1988

FSC:6810

NIIN:00-823-8007

MSDS Number: BMXJD

=== Responsible Party ===

Company Name:POLYCHEM CORP

Address:12 LYMAN ST

City:NEW HAVEN

State:CT

ZIP:06511-1514

Country:US

Info Phone Num:203-243-3093

Emergency Phone Num:203-243-3093

Preparer's Name:MICHAEL FOLE

Y

CAGE:51954

=== Contractor Identification ===

Company Name:POLYCHEM CORP

Address:12 LYMAN ST

Box:City:NEW HAVEN

State:CT

ZIP:06511-1514

Country:US

Phone:203-243-3093

CAGE:51954

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Composition/Information on Ingredients
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Ingred Name:SULFURIC ACID (SARA III)

CAS:7664-93-9

RTECS #:WS5600000

Fraction by Wt: 50%

Other REC Limits:NONE SPECIFIED

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3; 9192

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingred Name:WATER

CAS:7732-18-5

RTECS #:ZC0110

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Fraction by Wt: 50%

Other REC Limits:NONE SPECIFIED

===== Hazards Identification =====

LD50 LC50 Mixture:LD50 (ORAL RAT) IS 2140 MG/KG

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO

Health Hazards Acute and Chronic:ACUTE - INHALATION: SEVERE IRRITATION AND BURNS OF THE RESPIRATORY SYSTEM, PULMONARY EDEMA, LUNG INFLAMMATION. SKIN AND EYES: SEVERE BURNS. INGESTION: SEVERE BURNS TO MOUTH,

THROAT, AND STOMACH. MAY AFFECT KIDNEY FUNCTION.

CHRONIC: EROSION OF TEETH, SKIN LESIONS, BRONCHITIS.

Explanation of Carcinogenicity:SULFURIC ACID MISTS ARE CLASSIFIED IARC-2B.

Effects of Overexposure:SEVERE IRRITATION OR BURNS TO EYES, NOSE AND THROAT. PULMONARY EDEMA, BRONCHIAL EMPHYSEMA, CONJUNCTIVITIS, STOMATITIS, DENTAL EROSION, NAUSEA AND VOMITING.

Medical Conditions Aggravated by Exposure:PERSONS WITH A HISTORY OF AILMENTS OR WITH A PRE-EXISTING DISEASE INVOLVING THE RESPIRATORY TRACT MAY

BE AT INCREASED RISK FROM EXPOSURE.

===== First Aid Measures =====

First Aid:INHALATION: REMOVE TO FRESH AIR. RESUSCITATE IF NOT BREATHING. GET MEDICAL ATTENTION. EYES: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15 MINUTES HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH WITH PLENTY OF WATER FOR 15 MINUTES. GET MEDICAL ADVICE. INGESTION: DO NOT INDUCE VOMITING. GIVE NOTHING BY

ORAL INTAKE IF UNCONSCIOUS. GET IMMEDIATE MEDICAL ATTENTION.

===== Fire Fighting Measures =====

Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL.

Fire Fighting Procedures:USE NIOSH APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRES. USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.

Unusual Fire/Explosion Hazard:FIRE OR EXCESSIVE HEAT MAY CAUSE PRODUCTION OF HAZARDOUS DECOMPOSITION PRODUCTS.

===== Accidental Release Measures =====

Spill Release Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING. STOP LEAK IF YOU CAN DO SO WITHOUT RISK. DO NOT USE WATER. NEUTRALIZE SPILL AND/OR WASHINGS WITH SODA ASH OR LIME. WITH CLEAN SHOVEL, PLACE MATERIAL INTO CLEAN, DRY CONTAINER. Neutralizing Agent:J.T.BAKER'S NEUTRASORB (R) OR TEAM 'LOW NA+' ACID NEUTRALIZERS ARE RECOMMENDED.

===== Handling and Storage =====

Handling and Storage Precautions:KEEP CONTAINER TIGHTLY CLOSED. STORE IN A CORROSION-PROOF AREA. KEEP CONTAINERS OUT OF SUN AND AWAY FROM HEAT. ISOLATE FROM INCOMPATIBLE MATERIALS.

Other Precautions:DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING. DO NOT BREATHE VAPORS. KEEP IN TIGHTLY CLOSED CONTAINERS. LOOSEN CLOSURES CAUTIOUSLY. USE WITH ADEQUATE VENTILATION. IN CASE OF SPILL NEUTRALIZE WITH SODA ASH OR LIME.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:NONE REQUIRED WHERE ADEQUATE VENTILATION CONDITIONS EXIST. IF AIRBORNE CONCENTRATION EXCEEDS TLV, A NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS IS RECOMMENDED.

Ventilation:USE MECHANICAL (GENERAL) OR LOCAL EXHAUST VENTILATION TO MEET TLV REQUIREMENTS.

Protective Gloves:RUBBER

Eye Protection:SAFETY GOGGLES WITH OPTIONAL FACE SHIELD

Other Protective Equipment:EYE WASH STATION AND SAFETY SHOWER. INDUSTRIAL-TYPE WORK CLOTHING AND APRON AS REQUIRED.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

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 Pt:B.P. Text:193F,89C

Vapor Pres:< 0.5

Spec Gravity:1.42

pH:0.9

Solubility in Water:COMPLETE

Appearance and Odor:CLEAR TO SLIGHTLY YELLOW LIQUID WITH A

SHARP ACID
ODOR.

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid: YES

ALKALINE MATERIALS, COMBUSTIBLE AND ORGANIC MATERIALS, NITRO COMPOUNDS,
CARBIDES, AND OXIDIZING AGENTS.

Stability Condition to Avoid: HIGH TEMPERATURES, MOISTURE

Hazardous Decomposition Products: OXIDES OF SULFUR, HYDROGEN SULFIDE,
HYDROGEN GAS

===== Disposal Considerations =====

Waste Disposal Methods: DISPOSAL SHOULD BE MADE IN ACCORDANCE WITH ALL

APPLICABLE FEDERAL, STATE, AND LOCAL ENVIRONMENTAL REGULATIONS.

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