

CYTEC INDUSTRIES INC -- SULFURIC ACID, ELECTROLYTE 1.250 SP GR -- 6810-00-904-9372

===== Product Identification =====

Product ID:SULFURIC ACID, ELECTROLYTE 1.250 SP GR

MSDS Date:12/17/1993

FSC:6810

NIIN:00-904-9372

MSDS Number: BVBGQ

=== Responsible Party ===

Company Name:CYTEC INDUSTRIES INC

Address:FIVE GARRET MOUNTAIN PLAZA

City:WEST PATERSON

State:NJ

ZIP:07424

Country:US

Info Phone Num:201-357

-3100/201-357-3310

Emergency Phone Num:800-424-9300(CHEMTREC)/201-357-3100

Preparer's Name:(CO'S MSDS #:0243)

CAGE:0V7G8

=== Contractor Identification ===

Company Name:BARTLETT CHEMICALS

Address:4955 RIVER ROAD

Box:10710

City:JEFFERSON

State:LA

ZIP:70121

Country:US

Phone:504-734-1971

CAGE:1V771

Company Name:CYTEC INDUSTRIES INC

Address:FIVE GARRET MOUNTAIN PLAZA

Box:City:WEST PATERSON

State:NJ

ZIP:07424

Country:US

Phone:800-652-6013

CAGE:0V7G8

===== Composition/Information on Ingredien

ts =====

Ingred Name:SULFURIC ACID (SARA III)  
CAS:7664-93-9  
RTECS #:WS5600000  
Fraction by Wt: 0-100%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:1 MG/M3  
ACGIH TLV:1 MG/M3; 9394  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

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

LD50 LC50 Mixture:LD50 (ORAL,RAT) IS 2140MG/KG.  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO  
Health Hazards Acute and Chronic:CORR TO S  
KIN, EYES, NOSE, MUC MEM,  
RESP & GI TRACTS. MIST/VAPOR INHAL CAN CAUSE PULM EDEMA,  
EMPHYSEMA, PERM CHANGES IN PULM FUNCTION. CHRONIC:DERM, CHRONIC  
BRONCHITIS, GASTRITIS, EROSION OF DENTAL ENAMEL, CONJUNCTIVITIS,  
INCREASE FREQ RESP TRACT INFECTIONS, & CANCER OF LARYNX, LUNGS &  
UPPER RESP TRACT.  
Explanation of Carcinogenicity:SULFURIC ACID MISTS ARE CLASSIFIED  
IARC-2B.  
Effects of Overexposure:DIRECT CONTACT W/MATERIAL MAY CAUSE SEVERE EYE  
& SKIN IRRITATION. CORROSION  
TO EYE, SKIN, NOSE, MUC MEM, RESP & GI  
TRACTS. PULM EDEMA, EMPHYSEMA, CHANGES IN PULM FUNCTION. DERM,  
BRONCHITIS, GASTRITIS, EROSION OF DENTAL ENAMEL, CONJUNCTIVITIS,  
FREQUENT RESP TRACT INFECTIONS, & CANCER OF LARYNX, LUNGS & UPPER  
RESP TRACT.  
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MFG.

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

First Aid:SKIN:REMOVE CONTAMIN CLOTH W/O DELAY.CLEANSE THOROUGHLY  
W/SOAP & WATER.DO NOT OMIT HAIR & FINGER  
NAILS IF CONTAMIN. EYE:  
IMMED IRRIGATE W/PLENTY OF WATER FOR 15MINS.GET MED ATTN W/O DELAY.  
INHAL: REMOVE FROM EXPOSURE.GIVE OXY IF DIFFICULT IN BREATH.GIVE ARTI  
RESP IF NOT BREATH & CONTINUE TIL NORMAL BREATH ESTABLISHED.GET MED  
ATTN W/O DELAY.

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

Extinguishing Media:FIRES INVOLVING SMALL AMTS OF COMBUST MAY BE SMOTHERED  
BY DRY CHEM.USE WATER ON COMBUST BURNING IN VICINITY OF ACID  
CAUTION  
Fire Fighting Proceed

ures:USE A SELF-CONTAINED BREATHING APPARATUS AND  
FULL PROTECTIVE EQUIPMENT.

Unusual Fire/Explosion Hazard:H<sub>2</sub>SO<sub>4</sub> WON'T BURN BUT CAPABLE IF IGNITING  
FINELY DIVIDED COMBUST MATL ON CONTACT.REACTS VIOLENTLY W/ORG MATL  
& WATER W/HEAT EVOLUTION, BOILING & SPALTTERING.

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

Spill Release Procedures:EXPO LEVEL UNKNOWN WEAR NIOSH APPROVED + PRESS  
SELFCONTAINED RESP;IF KNOW WEAR APPROPRIATE RESP.USE ACID HOOD/SUIT  
WHEN S

PRAY/SPLASH MAY OCCUR.DILUTE CAUTIOUSLY W/5-6VOLS OF  
WATER.NEUTRALIZE GRADUALLY W/SODA ASH OR LIME.AVOID UNNEUTRAL ACID  
IN SEWERS

Neutralizing Agent:SODA ASH OR LIME.

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

Handling and Storage Precautions:DO NOT ADD WATER TO CONTENTS WHILE IN  
CNTNR CAUSE OF VIOLENT REACTION.ACID ATTACKS METALS RELEASING FLAMM  
H<sub>2</sub> GAS. EXTREME HAZ CONTACT W/EXPLOSIVES.

Other Precautions:H<sub>2</sub> GAS ACCUMULATE IN METAL TANKS CONTAINING

ACID.DON'T SMOKE/IGN SOURCES AROUND OPEN DRUMS/TANKS OF ACID.ALWAYS  
ADD ACID TO WATER WHEN DILUTING;NEVER WATER TO ACID.PROTECT AGAINST  
PHYSICAL DAMAGE & CO NTACT W/INCOMPATIBLE MATLS.

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

Respiratory Protection:WHERE EXPOSURES ARE BELOW PEL NO RESP PROTECTION  
IS REQUIRED. WHERE EXOSURES EXCEED PEL USE NIOSH APPROVED RESP OR  
FULL PROTECTIVE SUIT W/AIR SUPPLY APPROPRIATE FOR MATL & EXPOSURE  
LEVEL. SEE "GUIDE T O  
INDUSTRIAL RESP PROTECTION" (NIOSH).

Ventilation:USE CLOSED SYS PROCESS WHERE FEASIBLE.IF NOT GOOD ENCLOSURE  
& LOC EXHAUST VENTILA SHOULD BE PROVIDED TO CONTROL EXPOSURE

Protective Gloves:IMPERVIOUS GLOVES, PVC.

Eye Protection:CHEM SPLASH PROOF GOGGLES OR FACE SHIELD

Other Protective Equipment:IMPERV APRON,WORKPANTS,LONG SLEEVE  
WORKSHIRT, DISPOSABLE COVERALLS.EYEWASH FOUNTAIN & SAFETY SHOWER  
CLOSE TO POTENT EXPO

Work Hygienic Practices:PREVENT EYE/SKIN CONTACT.WASH CONTAMIN CLOTH

PRIOR TO REUSE.WASH FACE/HANDS W/SOAP/WATER AFT HANDLING & PRIOR TO EAT/DRI

Supplemental Safety and Health

VAPOR PRESSURE:VARIABLE FUNCTION OF TEMP & CONCEN. PH:0.10N=1.2, 1.0N=0.3. DO NOT STRIKE TANK FITTINGS W/TOOLS OR OTHER HARD OBJECTS.

===== Physical/Chemical Properties =====

HCC:C1

Boiling Pt:B.P. Text:640F,338C

Vapor Pres:VARIABLE

Spec Gravity:1.250

pH:2.1

Solubility in Water:COMPLETE

Appearance and Odor:CLEAR TO SLIGHTLY CLOUDY, OILY LIQUID; OD ORLESS TO

SLIGHTLY PUNGENT ODOR.

Percent Volatiles by Volume:0-20

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

Stability Indicator/Materials to Avoid:YES

WATER;MANY METALS;STRONG ALKALI MTLS;CARBIDES;

CHLORATES;FULMINATES;NITRATES;PICRATES;ORG

MATL(ACIDS,ACETATES,ANHYDRIDES

Stability Condition to Avoid:NONE KNOWN.

Hazardous Decomposition Products:SULFUR TRIOXIDE &/OR SULFUR DIOXIDE.

TOXIC & EXPLOSIVE HYDROGEN SULFIDE MAY FORMED UNDER CERTAIN CONDITION

S.

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

Waste Disposal Methods:DISPOSAL MUST BE MADE IN ACCORDANCE WITH APPLICABLE GOVERNMENTAL REGULATIONS.

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