

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:201-35  
7-3100/201-357-3310  
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 Ingredie

nts =====

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  
SKIN, EYES, NOSE, MUC MEM,  
RESP & GI TRACTS. MIST/VAPOR INHAL CAN CASUSE PULM EDEMA,  
EMPHYSEMA, PERM CHANGES IN PULM FUNCTION. CHRONIC:DERM, CHRONIC  
BRONCHITIS, GASTRITIS, EROSION OF DENTAL EN AMEL, 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 FULM 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 & FING  
ERNAILS IF CONTAMIN. EYE:  
IMMED IRRIGATE W/PLENTY OF WATER FOR 15MINS.GET MED ATTN W/O DELAY.  
INHAL: REMOV E FROM EXPOUSRE.GIVE OXY IF DIFFI 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 SM AMTS OF COMBUST MAY BE SMOTHERED  
BY DRY CHEM.USE WATER ON COMBUST BURNING IN VICINITY OF ACID  
CAUTIOU

Fire Fighting Proce

dures: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 & SPALTTTERING.

===== 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

SPRAY/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; O DORLESS 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 CONDITIO

NS.

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

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

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