

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:H₂SO₄ 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
H₂ GAS. EXTREME HAZ CONTACT W/EXPLOSIVES.

Other Precautions:H₂ 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.

Disclaimer (provided with this information by the compiling agencies):
This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any

person utilizing this

document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.