

C & D TECHNOLOGIES, INC -- SULFURIC ACID, BATTERY ELECTROLYTE-STANDBY(FLOODED) --  
6140-00-168-3803

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

Product ID:SULFURIC ACID, BATTERY ELECTROLYTE-STANDBY(FLOODED)

MSDS Date:10/22/1997

FSC:6140

NIIN:00-168-3803

Status Code:A

MSDS Number: CKDRV

=== Responsible Party ===

Company Name:C & D TECHNOLOGIES, INC

Address:1400 UNION MEETING ROAD

Box:3053

City:BLUE BELL

Sta

te:PA

ZIP:19422-0858

Country:US

Info Phone Num:215-619-2700

Emergency Phone Num:610-828-9309/800-255-3924,CHEM TEL

Preparer's Name:S.J. KELLY

CAGE:1K126

==== Contractor Identification ====

Company Name:C & D TECHNOLOGIES, INC

Address:1400 UNION MEETING ROAD

Box:3053

City:BLUE BELL

State:PA

ZIP:19422-0858

Country:US

Phone:215-619-2700

Contract Num:SP0430-99-C-5815

CAGE:1K126

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===== Composition/Information on Ingredients =====

Ingred Name:SULFURIC ACID

CAS:7664-93-9

RTECS #:WS5600

000  
Minumum % Wt:28.  
Maxumum % Wt:40.  
OSHA PEL:1 MG/M3  
ACGIH TLV:1 MG/M3  
ACGIH STEL:3 MG/M3  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:WATER  
CAS:7732-18-5  
RTECS #:ZC0110000  
Minumum % Wt:60.  
Maxumum % Wt:72.

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Health Hazards Acute and Chronic:ACUTE:TISSUE DESTRUCTION ON CONTACT.  
MAY CAUSE 2ND AND 3RD DEGREE BURNS OR BLINDNESS. INGESTION WILL  
CAUSE CORRO  
SIVE BURNS ON CONTACT. MAY BE FATAL IF SWALLOWED.  
CHRONIC: INHALATION OF MISTS MAY CAUSE UPPER RESPIRATORY  
IRRITATION AND PULMONARY EDEMA.  
Effects of Overexposure:IRRITATION OR BURNING OF EXPOSED TISSUES.  
Medical Cond Aggravated by Exposure:RESPIRATORY DISORDERS MAY BE  
AGGRAVATED BY PROLONGED INHALATION OF MISTS.

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

First Aid:SKIN/EYES: FLUSH WITH WATER FOR 15 MINUTES. REMOVE  
CONTAMINATED CLOTHING. IF IRRITATION  
CONTINUES, SEEK MEDICAL  
ATTENTION. INGESTION: DO NOT INDUCE VOMITING. DRINK LARGE  
QUANTITIES OF MILK OR WATER. G IVE CPR IF BREATHING HAS STOPPED.  
SEEK MEDICAL ATTENTION IMMEDIATELY.

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

Extinguishing Media:DRY CHEMICAL, HALON, OR CARBON DIOXIDE.  
Fire Fighting Procedures:VENTILATE THE AREA WELL. SCBA AND ACID  
PROTECTIVE CLOTHING ARE RECOMMENDED.  
Unusual Fire/Explosion Hazard:HYDROGEN GAS MAY BE PRESENT. HYDROGEN

GAS

AND ACID MIST IS GENERATED UPON OVERCHARGE OR IN FIRE. VENTILATE AREA.

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

Spill Release Procedures:NEUTRALIZE ANY SPILLED ELECTROLYTE WITH SODA ASH OR SODIUM BICARBONATE UNTIL FIZZING STOPS. WHEN THE REACTION STOPS THE PH SHOULD BE NEUTRAL AT 6-8. WHEN NEUTRALIZED, THE SPILL IS NON-HAZARDOUS. KEEP UNTRAINED INDIVIDUALS AWAY FROM THE SPILLED MATERIAL. PROVIDE ADEQUATE VENTILATION, HYDROGEN GAS MAY BE GIVEN OFF DURING NEUTRALIZATION. CONTAIN LARGE SPILLS WITH EARTH OR CLAY DIKES.

Neutralizing Agent:NEUTRALIZE ANY SPILLED ELECTROLYTE WITH SODA ASH OR SODIUM BICARBONATE UNTIL FIZZING STOPS.

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

Handling and Storage Precautions:ADD WATER TO ACID AFTER NEUTRALIZATION TO AVOID EXCESSIVE HEAT GENERATION. STORE IN COOL, DRY AREA AWAY FROM REACTIVES AND COMBUSTIBLES. DO NOT STORE IN SEALED, UNVENTILATED AREAS. PROVIDE SECONDARY CONTAINMENT IF LARGE VOLUMES ARE STORED.

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

Respiratory Protection:NIOSH APPROVED ACID MIST RESPIRATOR, IF OSHA PEL IS EXCEEDED.

Ventilation:GENERAL ROOM VENTILATION IS SUFFICIENT DURING NORMAL USE AND HANDLING. RECOMMEND 2 TO 3 ROOM AIR CHANGES PER HOUR TO PREVENT BUILDUP OF HYDROGEN GAS.

Protective Gloves:RUBBER OR NEOPRENE.

Eye Protection:CHEMICAL GOGGLES OR SAFETY GLASSES WITH SIDESHIELDS AND A FULL FACE SHIELD.

Other Protective Equipment:ACID RESISTANT APRON OR CLOTHES.

Work Hygienic Practices:MAINTAIN EYEWASH AND DRENCH SHOWER IN AREA.

Supplemental Safety and Health

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

HCC:C1

Boiling Pt:=112.8C, 235.F

Vapor Pres:145.8/MM

Vapor Density:>1

Spec Gravity:1.215-1.290+/-0.010

Evaporation Rate & Reference: