

C AND D BATTERIES AND ALLIED CO PLANT 1 -- CALCIUM LEAD BATTERY, WET (KC SERIES) --  
6140-00-422-0005

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

Product ID:CALCIUM LEAD BATTERY, WET (KC SERIES)

MSDS Date:02/01/1989

FSC:6140

NIIN:00-422-0005

MSDS Number: BKTBK

=== Responsible Party ===

Company Name:C AND D BATTERIES AND ALLIED CO PLANT 1

Address:WASHINGTON AND CHERRY STS

City:CONSHOHOCKEN

State:PA

ZIP:19428

Country:US

Info Phone Num:215-828-9000

Emergency Phone Num:215-

828-9000, CHEMTREC 800-424-9000

CAGE:LO354

=== Contractor Identification ===

Company Name:C & D CHARTER POWER SYSTEMS, INC.

Address:3043 WALTON ROAD

City:PLYMOUTH MEETING

State:PA

ZIP:19462

Country:US

Phone:800-255-3924

CAGE:80531

Company Name:C AND D BATTERIES AND ALLIED CO PLANT 1

Address:WASHINGTON AND CHERRY STS

Box:City:CONSHOHOCKEN

State:PA

ZIP:19428

Country:US

Phone:215-828-9000

CAGE:LO354

Company Name:JOHN J. WILSON ASSOCIATES INC.

Address:3007 LINCOLN AVENUE

Box:9506

City:RICHMOND

State

:VA  
ZIP:23228-4209  
Country:US  
Phone:804-266-9623  
CAGE:7L867

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

Ingred Name:LEAD (SARA III)  
CAS:7439-92-1  
RTECS #:OF7525000  
Fraction by Wt: >60%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:0.05 MG/M3;1910.1025  
ACGIH TLV:0.15 MG/M3;DUST 9192  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:CALCIUM, METAL  
CAS:7440-70-2  
RTECS #:EV8040000  
Fraction by Wt: 1.0%  
Other REC Limits:NONE SPECIFIED

Ingred Name:SULFURIC ACID (SARA III)  
CAS:7664  
-93-9  
RTECS #:WS5600000  
Fraction by Wt: 7-9%  
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:POLYPROPYLENE  
Fraction by Wt: 18%  
Other REC Limits:NONE SPECIFIED

Ingred Name:WATER  
CAS:7732-18-5  
RTECS #:ZC0110000  
Fraction by Wt: 20%  
Other REC Limits:NONE SPECIFIED

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP

:NO IARC:YES OSHA:YES

Health Hazards Acute and Chronic:ACUTE:INHALATION OF ACID VAPORS MAY CAUSE SEVERE IRRITATION OR BURNS OF THE RESPIRATORY SYSTEM, PULMONARY EDEMA, OR LUNG INFLAMMATION. MAY CAUSE SEVERE BURNS TO SKIN OR EYES. INGESTION MAY CAUSE SEVERE BURNS TO MOUTH, THROAT, AND STOMACH. MAY AFFECT KIDNEY FUNCTION. CHRONIC:MAY DAMAGE LUNGS,TEETH EROSION.

Explanation of Carcinogenicity:LEAD IS CONSIDERED A POSSIBLE CARCINOGEN.

Effects of Overexposure:ACID:SEVERE IRRITATION OR BURNS TO EYES, NOSE AND THROAT. PULMONARY EDEMA, BRONICAL EMPHYSEMA, CONJUNCTIVITIS, STOMATITIS, DENTAL EROSION, NAUSEA AND VOMITING. LEAD:STOMACH CRAMPS, ANEMIA AND NERVE DAMAGE.

Medical Cond 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 MOUTH IF UNCONSCIOUS. GET IMMEDIATE MEDICAL ATTENTION.

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

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

Fire Fighting Procedures:IF ON CHARGE, SHUT OFF POWER.

Unusual Fire/Explosion Hazard:WILL GENERATE HYDROGEN ON OVERCHARGE. MAY EXPLODE IN FIRE AND PRODUCE HAZARDOUS FUMES AND OXIDE OF SULFUR GASES.

#### ===== 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 WAS

HINGES 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 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 VAPOR. KEEP IN TIGHTLY CLOSED CONTAINER. LOOSEN CLOSURE  
CAUTIOUSLY. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER  
HANDLING. 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 GLOVES

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: OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND  
RECOMMENDED PROCEDURES. 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

Spec Gravity: 1.215-1.250

pH: