

C AND D BATTERIES AND ALLIED CO PLANT 1 -- CALCIUM LEAD BATTERY, WET; CDID: DC,MC,LC,
-- 6140-00-834-6792

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

Product ID:CALCIUM LEAD BATTERY, WET; CDID: DC,MC,LC,

MSDS Date:08/01/1992

FSC:6140

NIIN:00-834-6792

MSDS Number: BNWNT

=== 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

===== Composit

ion/Information on Ingredients =====

Ingred Name:LEAD (SARA III)/ LEAD OXIDE/ LEAD SULFATE
CAS:7439-92-1
RTECS #:OF7525000
Fraction by Wt: 62-65%
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:SULFURIC ACID (SARA III)
CAS:7664-93-9
RTECS #:WS5600000
Fraction by Wt: 6-8%
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:CALCIUM, METAL
CAS:7440-70-2
RTECS #:EV8040000
Fraction by Wt: 1%
Other REC Limits:NONE SPECIFIED

Ingred Name:WATER
CAS:7732-18-5
RTECS #:ZC0110000
Fraction by Wt: 12-15%
Other REC Limits:NONE SPECIFIED

Ingred Name:INERT PARTS: PLASTICS, RUBBER, FIBERGLASS.
Fraction by Wt: 10-18%
Other REC Limits:NONE SPECIFIED

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE: EXPOSURE TO BATTERY ACID MAY CAUSE BURNS. ACID IN EYES CAN CAUSE SEVERE OR PERMANENT INJURY. INGESTION OF ACID CAN CAUSE SEVERE BURNS, PULMONARY EDEMA, OR EVEN DEATH. CHRONIC: EXPOSURE TO ACID MIST MAY RESULT IN RESPIRATORY TRACT IRRITATION.

Explanation of Carcinogenicity:NONE KNOWN AT THIS TIME.

Effects of Overexposure:DIRECT CONTACT WITH ABTTERY ACID MAY CAUSE REDNESS OF SKIN, IRRITATION OR BURNS. INHALATION OF ACID MIST MAY CAUS

E COUGHING OR THROAT IRRITATION.

Medical Cond Aggravated by Exposure:RESPIRATORY CONDITIONS MAY BE AGGRAVATED BY BREATHING OF ACID MISTS.

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

First Aid:EYES AND SKIN: FLUSH EYES AND SKIN WITH WATER FOR AT LEAST 15 MINUTES. INGESTION: DO NOT INDUCE VOMITING. INGEST LARGE AMOUNTS OF MILK OR WATER. SEEK MEDICAL ATTENTION IMMEDIATELY.

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

Extinguishing Med

ia:DRY CHEMICAL, HALON, CARBON DIOXIDE.

Fire Fighting Procedures:SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING.

Unusual Fire/Explosion Hazard:HYDROGEN GAS AND ACID MIST ARE GENERATED UPON OVERCHARGE OR IN FIRES. VENTILATE AREA.

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

Spill Release Procedures:AVOID HANDLING A BROKEN BATTERY WITHOUT PROPER PROTECTIVE GEAR. THE ACID MAY BE NEUTRALIZED WITH SODA ASH OR LIME UNTIL THR FRIZZING STOPS. CONTAIN

BROKEN BATTERIES IN PLASTIC

CONTAINERS. DO NOT PLACE IN METAL DRUMS.

Neutralizing Agent:SODA ASH OR LIME.

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

Handling and Storage Precautions:STORE IN COOL DRY AREA. AVOID

OVERHEATING AND OVERCHARGING. USE NON-CONDUCTIVE TOOLS.

Other Precautions:DO NOT WEAR METALLIC JEWELRY AROUND BATTERIES.

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

Respiratory Protection:APPROVED ACID MIST FILTERS IF TWA IS E

XCEED.

Ventilation:GENERAL VENTILATION IUS ADEQUATE UNDER NORMAL CONDITIONS.

Protective Gloves:RUBBER GLOVES, NEOPRENE GLOVES.

Eye Protection:CHEMICAL SPLASH GOGGLES.

Other Protective Equipment:EYE WASH STATION AND SAFETY SHOWER. ACID
RESISTANT CLOTHING, APRONS.

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND
RECOMMENDED PROCEDURES. REMOVE METALLIC JEWELRY - SHOCK HAZARD.

Supplemental Safety and Health

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

HCC:C1

Boiling Pt:B.P. Text:235F,113C

Vapor Pres:145.8

Vapor Density: