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C AND D CHARTER POWER SYSTEMS, INC. -- FLOODED LEAD-CALCIUM
BATTERY,DC,LC,KC,XT,MC,JC SERIES -- 6140-01-323-1323

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

Product ID:FLOODED LEAD-CALCIUM BATTERY,DC,LC,KC,XT,MC,JC SERIES

MSDS Date:07/01/1994

FSC:6140

NIIN:01-323-1323

MSDS Number: BYTCN

=== Responsible Party ===

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

Address:3043 WALTON RD, SUITE B

City:PLYMOUTH

MEETING

State:PA

ZIP:19462

Country:US

Info Phone Num:610-828-9000

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

Preparer's Name:P. J. REICH

CAGE:0GRM9

=== 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

CAGE:1K126

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

Address:1400 UNION MEETING ROAD

Box:3053

City:BLUE BELL

State:PA

ZIP:19422

Country:US

Phone:215-619

-2700; 610-828-9309
CAGE:0GRM9
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 313) (CERCLA)
CAS:7439-92-1
RTECS #:OF7525000
Fraction by Wt: 62 - 65%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:SEE 1910.1025
ACGIH TLV:0.15MG/M3 DUST; 9495
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:SULFURIC
ACID (SARA 302/313) (CERCLA)
CAS:7664-93-9
RTECS #:WS5600000
Fraction by Wt: 6 - 8%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3/3 STEL; 9495
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:WATER
CAS:7732-18-5
RTECS #:ZC0110000
Fraction by Wt: 12 - 15%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:NOT RELEVANT
ACGIH TLV:NOT RELEVANT

Ingred Name:CALCIUM, METAL
CAS:7440-70-2
RTECS #:EV8040000
Fraction by Wt: 1%
Other REC Limits:NONE RECOMMENDED

Ingred Name:INERT INGRE

DIENTS/COMPONENTS

Fraction by Wt: 10 - 18%

Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:LD50 (ORAL, RAT) IS 2140 MG/KG.

Routes of Entry: Inhalation:NO Skin:NO Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:TARGET ORGANS:EYE, SKIN, CNS, LUNG, GI

TRACT. ACUTE- LEAD MAY CAUSE GI UPSET, DIARRHEA, CRAMPING &

FATIGUE. SULFURIC ACID MAY CAUSE EYE, SKIN & RESPIRATOR

Y TRACT

IRRITATION, BURNS, CORNEAL & LUNG DAMA GE. CHRONIC- LEAD MAY CAUSE ANEMIA, KIDNEY & NERVOUS SYSTEM DAMAGE. ACID CAN CAUSE BRONCHITIS, EROSION OF TOOTH ENAMEL.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:GI UPSET, LOSS OF APPETITE, DIARRHEA,

CONSTIPATION, CRAMPING, LACK OF SLEEP, FATIGUE, EYE, SKIN AND

RESPIRATORY TRACT IRRITATION, BURNS, CORNEAL AND LUNG DAMAGE

Medical Cond Aggravated by Exposure:LEAD AND ITS COMPOUNDS CAN

AGGRAVATE CHRONIC FORMS O

F KIDNEY, LIVER AND NEUROLOGIC DISEASES.

CONTACT OF SULFURIC ACID WITH SKIN MAY AGGRAVATE DISEASES SUCH AS

ECZEMA. ACID MIST AGGRAVATES LUNG DISEASE

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

First Aid:OBTAIN MEDICAL ATTENTION IN ALL CASES OF EXPOSURE.

EYES/SKIN:FLUSH WITH WATER FOR 15 MINUTES. KEEP EYELIDS OPEN.

INHALATION:MOVE TO FRESH AIR. INGESTION:DO NOT INDUCE VOMITING. IF CONSCIOUS, DRINK LAR GE AMOUNT OF WATER OR MILK.

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= Fire Fighting Measures =====

Flash Point:NON-FLAMMABLE

Extinguishing Media:USE CARBON DIOXIDE, SAND, HALON/DRY CHEMICAL. WATER

APPLIED TO ELECTROLYTE GENERATES HEAT AND CAUSES IT TO SPATTER.

Fire Fighting Procedures:WEAR ACID-RESISTANT CLOTHING AND

NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL

FACEPIECE OPERATED IN THE POSITIVE PRESSURE MODE.

Unusual Fire/Explosion Hazard:BATTERY CELLS MAY RUPTURE WHEN EXPOSED TO EXCESSIVE HEAT. THIS COULD RESUL

T IN RELEASE OF CORROSIVE
MATERIALS. HYDROGEN GAS, IF PRESENT, IS EXPLOSIVE/FLAMMABLE.

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

Spill Release Procedures:WEAR PROTECTIVE EQUIPMENTS. REMOVE
COMBUSTIBLES & IGNITION SOURCES (H2 MAY BE PRESENT). CONTAIN BY
DIKING AND COVER SPILL WITH SODA ASH OR QUICKLIME. MIX WELL. CHECK
THAT MIXTURE IS NEUTRAL. COLLECT AND PLACE IN A DRUM. DO NOT FLUSH
TO SEWER.

Neutralizing Agent:SODA ASH (SODIUM CARBONATE), QUICKL
IME (CALCIUM
OXIDE)

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

Handling and Storage Precautions:STORE NEAR EYEWASH FOUNTAIN AND SAFETY
SHOWER. STORAGE AREA SHOULD BE EQUIPPED WITH A DRAIN WHICH CAPTURES
SPILLS OF ACID FOR PROPER DISPOSAL.

Other Precautions:KEEP TERMINALS COVERED. AVOID SHORTING BATTERIES. DO
NOT CRACK OR OVERCHARGE BATTERIES. KEEP LIGHTED CIGARETTES, SPARKS,
AND FLAMES AWAY FROM CHARGING BATTERIES. KEEP OUT OF REACH OF
CHILDREN.

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

Respiratory Protection:NOT REQUIRED UNDER NORMAL USE. USE
NIOSH-APPROVED ACID-MIST FILTER RESPIRATOR IF 1 MG/M3 TWA IS
EXCEEDED (ACID).

Ventilation:ADEQUATE GENERAL VENTILATION

Protective Gloves:RUBBER

Eye Protection:SPLASH-PROOF CHEMICAL GOGGLES

Other Protective Equipment:RUBBER APRON AND BOOTS. EYES WASH STATION
AND SAFETY SHOWER. USE ACID-PROOF CLOTHING FOR MAJOR SPILLS.

Work Hygienic Practices:REMOVE METALLIC

JEWELRY-SHOCK POTENTIAL. WASH

THOROUGHLY AFTER HANDLING AND BEFORE EATING AND DRINKING.

Supplemental Safety and Health

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

HCC:C1

NRC/State Lic Num:NOT RELEVANT

Spec Gravity:NOT RELEVANT

Viscosity:NOT RELEVANT

Evaporation Rate & Reference:NOT RELEVANT

Solubility in Water:NOT RELEVANT

Appearance and Odor:BATTERY CONTAINING SULFURIC ACID AND LEAD.

===== Stability and Reactivity Data =====

Stabili

ty Indicator/Materials to Avoid: YES

COMBUSTIBLES, ORGANIC MATERIALS, METALS, REDUCING AGENTS, SULFUR TRIOXIDE, WATER, BASES

Stability Condition to Avoid: HIGH HEAT, OPEN FLAMES, OVERCHARGING, SMOKING, SPARKS

Hazardous Decomposition Products: LEAD OXIDE, HYDROGEN, SULFUR DIOXIDE, SULFUR TRIOXIDE, METAL FUMES

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

Waste Disposal Methods: DISPOSE AS HAZARDOUS WASTE. OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS FOR ACID OR LEAD SCRAP.

SEND BATTERIES TO LEAD SMELTER FOR RECLAMATION FOLLOWING APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

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