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C AND D CHARTER POWER SYSTEMS, INC. -- FLOODED LEAD-CALCIUM

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:215-61 9-2700; 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 INGR

EDIENTS/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 & RESPIRATO

RY 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

OF KIDNEY, LIVER AND NEUROLOGIC DISEASES.

CONTACT OF SULFURIC ACID WITH SKIN MAY AGGRAVATE DISEASES SUCH AS ECZEMA. ACID MIST AGGRAVATES LUNG DISEASE

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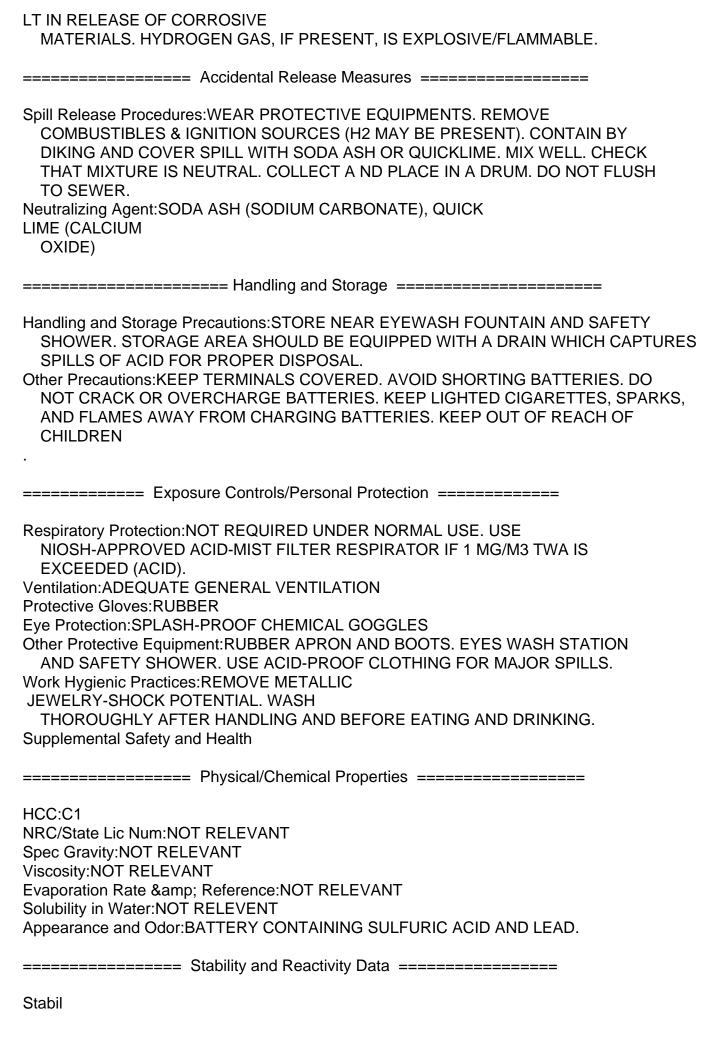
== Fire Fighting Measures =========

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 RESU



ity 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 REGU LATIONS FOR ACID OR LEAD SCRAP.

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

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