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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:PLYMOU TH 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:215619-2700; 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: SULFUR

IC 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 IN

GREDIENTS/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 & RESPIRA TORY 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 FORM S 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.

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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.

==== 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 RE

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 A ND PLACE IN A DRUM. DO NOT FLUSH TO SEWER.
Neutralizing Agent:SODA ASH (SODIUM CARBONATE), QUI CKLIME (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 CHILDR
EN.
====== 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 METALL IC 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 & Dr. Reference: NOT RELEVANT Solubility in Water: NOT RELEVENT
Appearance and Odor:BATTERY CONTAINING SULFURIC ACID AND LEAD.
========= Stability and Reactivity Data =========
Stab

SULT IN RELEASE OF CORROSIVE

ility 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 RE GULATIONS FOR ACID OR LEAD SCRAP.

SEND BATTERIES TO LEAD SMELTER FOR RECLAMATION FOLLOWING APPLICABLE.

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