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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 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

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: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.

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.
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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), QUICKL IME (CALCIUM OXIDE)
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 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
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HCC:C1 NRC/State Lic Num:NOT RELEVANT Spec Gravity:NOT RELEVANT

Viscosity:NOT RELEVANT Evaporation Rate & amp; Reference:NOT RELEVANT Solubility in Water:NOT RELEVENT

Appearance and Odor:BATTERY CONTAINING SULFURIC ACID AND LEAD.

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

Waste Disposal Methods:DISPOSE AS HAZARDOUS WASTE. OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGUL

ATIONS FOR ACID OR LEAD SCRAP.

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

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