

C & D CHARTER POWER SYSTEMS INC -- FLOODED LEAD-CALCIUM BATTERY -- 6140-01-122-7652
===== Product Identification =====

Product ID:FLOODED LEAD-CALCIUM BATTERY

MSDS Date:07/01/1994

FSC:6140

NIIN:01-122-7652

MSDS Number: BYCBG

=== Responsible Party ===

Company Name:C & D CHARTER POWER SYSTEMS INC

Address:3043 WALTON RD STE B

City:PLYMOUTH MEETING

State:PA

ZIP:19462

Country:US

Info Phone Num:215-828

-9000

Emergency Phone Num:215-828-9000

Preparer's Name:P. J. REICH

CAGE:80531

=== 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 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

===== Composition/Information on Ingredients

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Ingred Name:LEAD
CAS:7439-92-1
RTECS #:OF7525000
Fraction by Wt: 62-65%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.05 MG/M3
ACGIH TLV:0.15 MG/M3
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:SULFURIC ACID
CAS:7664-93-9
RTECS #:WS5600000
Fraction by Wt: 6-8%
Other REC Limits:NONE RECOMMENDED
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

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

Ingred Name:INERT COMPONENTS
Fraction by Wt: 10-18%
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:ORAL LD50 (RAT) IS 2140 MG/KG
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE: TISSUE DESTRUCTION ON CONTACT.
MAY CAUSE 2ND AND 3RD DEGREE BURNS. BLINDE

SS. INGESTION WILL CAUSE

CORROSIVE BURNS ON CONTACT. MAY BE FATAL IF SWALLOWED. CHRONIC: INHALATION OF MIST MAY CAUSE UPPER RESPIRATORY IRRITATION & PULMONARY EDEMA.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:IRRITATION OR BURNING OF EXPOSED TISSUES.

Medical Cond Aggravated by Exposure:RESPIRATORY DISORDERS.

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

First Aid:SKIN OR EYES: REMOVE CONTAMINATED CLOTHING. FLUSH WITH WATER FOR 15 MINUTES

. IF IRRITATION CONTINUES, SEEK MEDICAL ATTENTION.

INGESTIONS: DON'T INDUCE VOMITING. DRINK LARGE AMOUNTS OF MILK OR WATER. S EEK MEDICAL ATTENTION IMMEDIATELY.

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

Extinguishing Media:DRY CHEMICAL, HALON, CARBON DIOXIDE.

Fire Fighting Procedures:VENTILATE THE AREA WELL. SELF-CONTAINED BREATHING APPARATUS (SCBA) RECOMMENDED & FULL PROTECTIVE CLOTHES.

Unusual Fire/Explosion Hazard:HYDROGEN GAS AND ACID MIST ARE GENERAT ED

UPON OVERCHARGE OR IN FIRES. VENTILATE AREA. THOROUGHLY.

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

Spill Release Procedures:NEUTRALIZE SPILL WITH SODA ASH OR SODIUM BICARBONATE. PH SHOULD BE BETWEEN 6-9. KEEP UNTRAINED INDIVIDUALS AWAY. PLACE THE BROKEN BATTERY IN A HEAVY GAUGE PLASTIC BAG OR OTHER NON-METALLIC CONTAINER. PROVIDE ADEQUATE VENTILATION.

Neutralizing Agent:SODA ASH OR SODIUM BICARBONATE.

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===== Handling and Storage =

Handling and Storage Precautions:STORE IN COOL, DRY AREA AWAY FROM COMBUSTIBLES. DO NOT STORE IN SEALED, UNVENTILATED AREAS.

Other Precautions:DO NOT USE ORAGANIC SOLVENTS OR OTHER THAN RECOMMENDED CHEMICALS CLEANERS ON THE BATTERIES.

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

Respiratory Protection:IF NECESSARY, NIOSH APPROVED ACID MIST RESPIRATOR.

Ventilation:GENERAL ROOM VENTILATION IS SUFFICIENT DURING NORMAL USE AND HANDLING.

RECOMMENDED 2-3 ROOM AIR CHANGES PER HOUR.

Protective Gloves: RUBBER OR NEOPRENE GLOVES.

Eye Protection: CHEMICAL SPALSH GOGGLES/SAFETY GLASSES.

Other Protective Equipment: ACID RESISTANT APRON OR CLOTHING.

Work Hygienic Practices: MAINTAIN AN EYEWASH, FIRE EXTINGUISHER AND
EMERGENCY COMMUNICATIVE DEVICE IN THE AREA.

Supplemental Safety and Health

DO NOT WEAR CONDUCTIVE METAL JEWELRY WHEN WORKING WITH BATTERIES. USE
NON-CONDUCTIVE TOOLS ONLY. DISCHARGE STATIC ELECTRICITY PRIOR TO
WORKIN

G ON A BATTERY.

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

HCC:C1

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

Vapor Pres: 1 MM

Vapor Density: