

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  
RTECS  
#: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. BLINDES

S. 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  
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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. SEEK MEDICAL ATTENTION IMMEDIATELY.

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Fire Fighting Measures  
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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 GENERATE  
D

UPON OVERCHARGE OR IN FIRES. VENTILATE AREA. THOROUGHLY.

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

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

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Exposure Controls/Personal Protection  
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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  
WORKING  
ON A BATTERY.

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

HCC:C1

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

Vapor Pres:1 MM

Vapor Density: