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C & D TECHNOLOGIES INC -- LEAD-ANTIMONY BATTERY, 14-330 -- 6140-01-323-1328

Product ID:LEAD-ANTIMONY BATTERY, 14-330

MSDS Date:11/06/1997

FSC:6140

NIIN:01-323-1328

Status Code:A

MSDS Number: CJDFV === Responsible Party ===

Company Name: C & D TECHNOLOGIES INC

Address:1400 UNION MEETING RD

Box:3053

City:BLUE BELL

State:PA

ZIP:19422-0858

Country:US

Emergency Phone

Num:610-828-9309

Preparer's Name: S.J. KELLY

Chemtrec Ind/Phone:(800)424-9300

CAGE:1CTA5

=== Contractor Identification ===

Company Name: C & D TECHNOLOGIES INC

Address:1400 UNION MEETING RD

Box:3053

City:BLUE BELL

State:PA

ZIP:19422-0858

Country:US

Phone:215-619-2700

CAGE:1CTA5

Company Name: POWER SYSTEMS ENGINEERING

Address:16711 RICHMOND AVE SUITE 2

Box:City:HAZEL CREST

State:IL

ZIP:60429-1069

Country:US

Phone:708-210-2500

Contract Num:SP0430-99-M-F554

CAGE:04NK4

====== Composition/Infor

mation on Ingredients =======

Ingred Name:LEAD, LEAD COMPOUNDS

CAS:7439-92-1

RTECS #:OF7525000

Minumum % Wt:65.

Maxumum % Wt:70.

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

Minumum % Wt:11.

Maxumum % Wt:14.

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3

ACGIH STEL:3 MG/M3

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingred Name: ANTIMONY

CAS:7440-36-0

RTECS #:CC4025000

Minumum % W

t:1.

Maxumum % Wt:2.

OSHA PEL:0.5 MG/M3

ACGIH TLV:0.5 MG/M3

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ingred Name: ARSENIC

CAS:7440-38-2

RTECS #:CG0525000

< Wt:1.

OSHA PEL:0.5 MG/M3

ACGIH TLV:0.01 MG/M3

EPA Rpt Qty:1 LB

DOT Rpt Qty:1 LB

Ingred Name: COPPER

CAS:7440-50-8

RTECS #:GL5325000

< Wt:1.

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

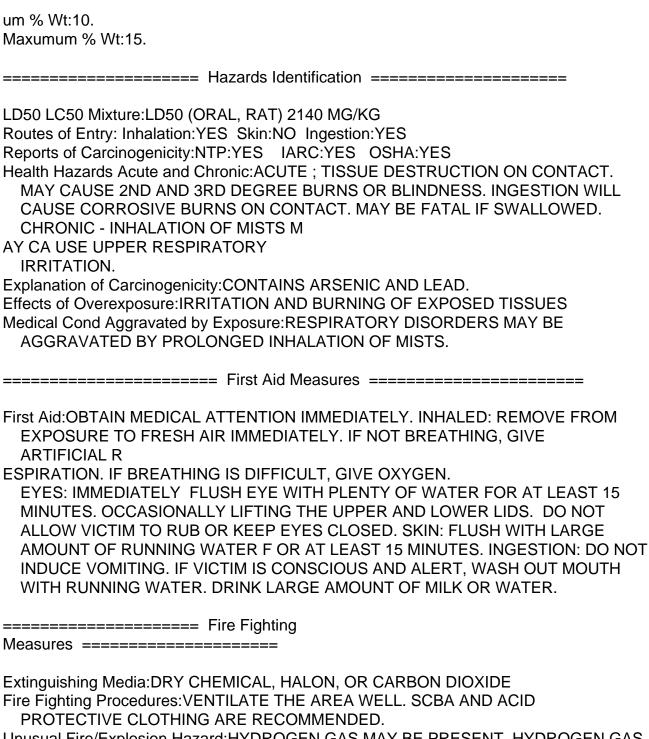
Ingred Name:WATER

CAS:7732-18-5

RTECS #:ZC0110000

Minumum % Wt:3.5

Maxumum % Wt:4.5



Unusual Fire/Explosion Hazard: HYDROGEN GAS MAY BE PRESENT. HYDROGEN GAS AND ACID MIST IS GENERATED UPON OVERCHARGING OR IN FIRE. VENTILATE AREA.

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

Spill Release Procedures: NEUTRALIZE ANY SPILLED ELECTROLYTE OR EXPOSED **BATTE**

RY PARTS WITH SODA ASH OR SODIUM BICARBONATE (FORMS CARBON DIOXIDE) UNTIL FIZZING STOPS. PH SHOULD BE NEUTRAL (6-8).
NEUTRALIZED, SPILL IS NON-HAZAR DOUS. PLACE BROKEN BATTERY IN A HEAVY GAUGE PLASTIC BAG OR NON-METALLIC CONTAINER. PROVIDE ADEQUATE VENTILATION, HYDROGEN GAS MAY BE GIVEN OFF. KEEP UNTRAINED INDIVIDUALS AWAY FROM SPILLED MATERIALS.

Neutralizing Agent: SODA ASH, SODIUM CARBONATE, SODIUM BICARBONATE, LIME

========== Handling and Storage ==========

Handling and Storage Precautions:STORE IN A COOL, DRY AREA AWAY FROM COMBUSTIBLES. DO NOT STORE IN SEALED, UNVENTILATED AREAS. AVOID OVERCHARGING AND OVERHEATING. DO NOT USE ORGANIC SOLVENTS OR OTHER THAN RECOMMENDED CHEMICAL CLEANER S ON THE BATTERIES.

Other Precautions:DO NOT TOUCH BROKEN OR LEAKING BATTERIES. AVOID MECHANICAL OR ELECTRICAL ABUSE. AVOID SHORT CIRCUITS. KEEP BATTERIES AWAY FROM SMALL CHILDREN. STORE IN A WELL VENTILATED AREA. KEEP IGNITION SO

URCES AW AY FROM CHARGING BATTERIES.

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

Respiratory Protection:NIOSH APPROVED ACID MIST RESPIRATOR, IF OSHA PEL IS EXCEEDED.

Ventilation:GENERAL ROOM VENTILATION SHOULD BE SUFFICIENT DURING NORMAL USE AND HANDLING. RECOMMEND 2 TO 3 ROOM AIR CHANGES PER HOUR TO PREVENT BUILUP OF HYDROGEN GAS.

Protective Gloves: RUBBER OR NEOPRENE FOR LEAKERS

Eye Protection: CHEMICAL GOGGLES OR SAFETY GLASSES WITH SIDESHIELD AND A FUL

L FACE SHIELD(LEAK)

Other Protective Equipment:ACID RESISTANT APRON OR CLOTHES
Work Hygienic Practices:DO NOT WEAR METALLIC JEWELRY WHEN WORKING WITH
BATTERIES. USE NON-CONDUCTIVE TOOLS ONLY. DISCHARGE STATIC
ELECTRICITY PRIOR TO WORKING ON A BATTERY. MAINTAIN AN EYEWASH,
FIRE EXTINGUISHER NEARBY.

Supplemental Safety and Health

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

HCC:C1

Boiling Pt:=112.8C, 235.F Vapor Pres:1 MM @ 145.8 Vapor Density:>1 (AIR=1)

Spec

Gravity:ACID = 1.285 +/- .010 Evaporation Rate & Reference: