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C & D TECHNOLOGIES -- 31P-PHD, GELLED ELECTROLYTE BATTERY/DYNASTY -- 6140-01-433-1883
========== Product Identification ==========

Product ID:31P-PHD, GELLED ELECTROLYTE BATTERY/DYNASTY
MSDS Date:07/01/1999
FSC:6140
NIIN:01-433-1883
Status Code:A
MSDS Number: CKMYY
=== Responsible Party ===
Company Name:C & D TECHNOLOGIES
Address:900 E. KEEFE AVE
City:MILWAUKEE
State:WI
ZIP:53212
Country:US
Info Phone Num:
800-365-7777
Emergency Phone Num:(800)424-9300
Resp. Party Other MSDS Num.:L 83
Chemtrec Ind/Phone:(800)424-9300
CAGE:TO647
=== Contractor Identification ===
Company Name:C & D TECHNOLOGIES
Address:900 E. KEEFE AVE
Box:City:MILWAUKEE
State:WI
ZIP:53212
Country:US
Phone:800-365-7777
CAGE:TO647
Company Name:CELL ENERGY INC
Address:3190-B ORANGE GROVE AVE
Box:City:NORTH HIGHLANDS
State:CA
ZIP:95660-5706
Country:US
Phone:916-484-7974
Contract Num:SP0430-00-M-KD12
CAGE:1U269

========== Compositi

on/Information on Ingredients ==========

Ingred Name:LEAD OR GRID
CAS:7439-92-1
RTECS #:OF7525000
= Wt:50.
ACGIH TLV:0.15 MG/M3
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:LEAD DIOXIDE OR LEAD OXIDE
CAS:1309-60-0
RTECS #:OG0700000
= Wt:21.

Ingred Name:LEAD SULFATE OR ANGLESITE
CAS:7446-14-2
RTECS #:OG4375000
< Wt:1.
OSHA PEL:SEE 1910.1025
ACGIH TLV:0.15 MG/M3
EPA Rpt Qty:100 LBS
DOT Rpt Qty:100 LBS

Ingred Name:SULFURIC ACID (40%) OR BATTERY ECTROLYTE (ACID)
CAS:7664-93-9
RTECS #:WS5
600000
= Wt:22.
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

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

LD50 LC50 Mixture:NO DATA PROVIDED BY RESPONSIBLE PARTY.
Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:UNDER NORMAL CONDITIONS OF BATTERY USE, INTERNAL COMPONENTS WILL NOT PRESENT A HEALTH HAZARD. THE FOLLOWING IS

PROVIDED FOR BATTERY ELECTROLYTE (ACID) AND LEAD FOR EXPOSURE THAT MAY OCCUR DURING BATTE RY PRODUCTION OR CONTAINER BREAKAGE OR UNDER EXTREME HEAT CONDITIONS SUCH AS FIRE. INHALATION: ACID MIST GENERATED DURING BATTERY FORMATION MAY CAUSE RESPIRATORY IRRITATION. SKIN: BATTERY ELECTROLYTE (ACID) MAY CAUSE IRRITATIVE CONTACT DERMATITS. EYE: BATTERY ELECTROLYTE (ACID) WILL IRRITATE THE EYES. INGESTION: HANDS CONTAMINATED WITH INTERNAL COMPONENTS OF A BATTERY CAN CAUSE
INGESTION OF LEAD/L EAD COMPOUNDS.

Explanation of Carcinogenicity:IARC HAS CLASSIFIED " STRONG INORGANIC ACID MIST CONTAINING SULFURIC ACID" AS A CATEGORY 1 CARCINOGEN, A SUBSTANCE THAT IS CARCINOGENIC TO HUMANS. THIS CLASSIFICATION DOES NOT APPLY TO LIQUID FORMS OF SULFURIC ACID SUCH AS FOUND IN BATTERIES. INORGANIC ACID MIST IS NOT NORMALLY PRODUCED BY THIS BATTERY.

Effects of Overexposure:ACUTE: ACUTE EFFECTS OF OVEREXPOSURE TO LEAD COMPOUNDS ARE GI (GASTROINTESTINAL
) UPSET, LOSS OF APPETITE, DIARRHEA, CONSTIPATION WITH CRAMPING, DIFFICULTY IN SLEEPING,& FATIGUE. EXPOSURE &D/OR CONTACT WITH BATTERY ELECTROLYTE (ACID) MAY LEAD TO ACUTE IRRITATION OF THE SKIN, CORNEAL DAMAGE OF THE EYES IF NOT WASHED IMMEDIATELY & IRRITATION OF THE MUCOUS MEMBRANES OF THE EYES & UPPER RESPIRATORY SY STEM, INCLUDING THE LUNGS. CHRONIC EFFCTS: LEAD & ITS COMPOUNDS MAY CAUSE CHRONIC ANEMIA, DAMAGE TO THE DIDNEYS & NERVOUS SYSTEM.

Medical Cond Aggrav
ated by Exposure:INORGANIC LEAD AND ITS COMPOUNDS CAN AGGRAVATE CHRONIC FORMS OF KIDNEY, LIVER, AND NEUROLOGIC DISEASES. CONTACT OF BATTERY ELECTROLYTE(ACID) WITH THE SKIN MAY AGGRAVATE SKIN DISEASES.

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

First Aid:INHALATION: REMOVE FROM EXPOSURE AND CONSULT A PHYSICIAN IF ANY OF THE ACUTE EFFECTS LISTED ABOVE DEVELOP. SKIN: WASH THOROUGHLY WITH SOAP AND WATER. IF ACID IS SPLASHED ON CLOTHING, REMOVE AND
DISCAR D. IF ACID IS SPLASHED IN SHOES, REMOVE THEM IMMEDIATELY AND DISCARD, ACID CANNOT BE MOVED FROM LEATHER. EYES: IMMEDIATELY RINSE WITH COOL RUNNING WATER FOR AT LEAST 15 MINUTES. SEEK MEDICAL ATTENTION AFTER RINSING. INGESTION: LEAD/LEAD COMPOUNDS: CONSULT A PHYSICIAN. BATTERY ELECTROLYTE (ACID): DO NOT INDUCE VOMITING. REFER TO A PHYSICIAN IMMEDIATELY.

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

Flash Point:=259.C, 498.2F
HYDROGEN
Autoigniti

on Temp:=580.C, 1076.F
Autoignition Temp Text:H2
Lower Limits:4.1
Upper Limits:74.2
Extinguishing Media:DRY CHEMICAL, FOAM, OR CARBON DIOXIDE (CO2).
Fire Fighting Procedures:USE POSITIVE PRESSURE, SELF-CONTAINED BREATHING APPARATUS.
Unusual Fire/Explosion Hazard:HYDROGEN AND OXYGEN GASES ARE PRODUCED IN THE CELLS DURING NORMAL BATTERY OPERATION (HYDROGEN) IS FLAMMABLE AND OXYGEN SUPPORTS COMBUSTION). THESE GASES ENTER THE AIR THROUGH THE VENT CAPS. TO AVOID T HE CHANCE OF A FIRE
OR EXPLOSION, KEEP
SPARKS AND OTHER SOURCES OF IGNITION AWAY FROM THE BATTERY.

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

Spill Release Procedures:REMOVE COMBUSTIBLE MATERIALS & ALL SOURCES OF IGNITION. CONTAINS SPILL WITH SODA ASH (SODIUM CARBONATE) OR QUICKLIME (CALCIUM OXIDE).MIX WELL. MAKE CERTAIN MIXTURE IS NEUTRAL, THEM COLLECT RESIDUE & P LACE IN A DRUM OR OTHER SUITABLE CONTAINER. DISPOSE OF AS A HAZARDOUS WASTE. WEAR ACID-RESISTANT BOOT
S, CHEMICAL FACE SHIELD, CHEMICAL SPLASH GOGGLES, AND ACID-RESISTANT GLOVES.
Neutralizing Agent:SODA ASH OR QUICKLIME.

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

Handling and Storage Precautions:STORE LEAD ACID BATTERIES WITH ADEQUATE VENTILATION. ROOM VENTILATION IS REQUIRED FOR BATTERIES UTILIZED FOR STANDBY POWER GENERATION. NEVER RECHARGE BATTERIES IN AN UNVENTILATED, ENCLOSED SPACE. DO N OT REMOVE VENT CAPS. FOLLOW SHIPPING & HANDLING INSTRUCTI
ONS WHERE APPLICABLE TO THE BATTERY
TYPE.
Other Precautions:NO DATA PROVIDED BY RESPONSIBLE PARTY.

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

Respiratory Protection:NONE REQUIRED UNDER NORMAL HANDLING CONDITIONS. DURING BATTERY FORMATION (HIGH-RATE CHARGE CONDITION), ACID MIST CAN BE GENERATED, WHICH MAY CAUSE RESPIRATORY IRRITATION. ALSO, IF ACID SPILLAGE OCCURS IN A CONFINED SPACE, EXPOSURE MAY OCCUR. IF IRRITATION OCCURS, WEAR A RESPIRATOR SUITA

BLE FOR PROTECTION
AGAINST ACID MIST.
Ventilation:ROOM VENTILATION IS REQUIRED FOR BATTERIRES UTILIZED FOR STANDBY POWER GENERATION. NEVER RECHARGE BATTERIES IN AN UNVENILATED, ENCLOSED SPACE.
Protective Gloves:VINYL-COATED, PVC, GAUNTLET-TYPE GLOVES WITH ROUGH FINISH.
Eye Protection:CHEMICAL SPLASH GOGLES ARE PREFERRED. ALSO ACCEPTABLE ARE VISOR-GOGS OR A CHEMI
Other Protective Equipment:SAFETY SHOES WORN WITH RUBBER OR NEOPRENE BOOTS OR STEEL-TOED RUBBER OR NEOPRENE BOO
TS WORN OVER SOCKS. PLACE
PANTS LEGS OVER BOOTS TO KEEP ACID OUT OF BOOTS. ALL FOOTWEAR MUST MEET REQUIRMENTS OF ANSI
Work Hygienic Practices:FOLLOWING CONTACT WITH INTERNAL BATTERY COMPONENTS, WASH HANDS THOROUGHLY BEFORE EATING, DRINKING OR SMOKING.
Supplemental Safety and Health
NO DATA PROVIDED BY RESPONSIBLE PARTY.

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

HCC:C1
Boiling Pt:>110.C, 230.F
B.P. Text:ELECTROLYTE
Melt/Freeze Pt:=327.4C, 621.3F
M.P/F.
P Text:LEAD
Vapor Pres:NOT DETERMINED
Vapor Density:N/D
Spec Gravity:1.280-1.320 (ACID)
Evaporation Rate & Reference:NOT DETERMINED
Solubility in Water:100% (ACID)
Appearance and Odor:BATTERY ELECTROLYTE (ACID) IS A GRAYISH-WHITE GELLED SOILD WITH A SIGHT ACIDIC

========== Stability and Reactivity Data ==========

Stability Indicator/Materials to Avoid:YES
LEAD/LEAD COMPOUNDS: POTASSIUM, CARBIDES, SULFIDES, PEROXIDES, PHOSPHORUS, SULFUR. BATTERY ELECTROLYTE (ACID): C

OMBUSTIBLES
MATERIALS. STRONG REDUCING AGENTS, MOST METALS. CARBIDES, ORGANIC MATERIALS, CHLORATED, NITRATES, P
Stability Condition to Avoid:SPARKS AND OTHER SOURCES OF IGNITION. HIGH TEMPERATURES. BATTERY ELECTROLYTE (ACID) WILL REACT WITH WATER TO PRODUCE HEAT. CAN REACT WITH OXIDIZING OR REDUCING AGENTS.
Hazardous Decomposition Products:LEAD/LEAD COMPOUNDS: OXIDES OF LEAD AND SULFUR. BATTERY ELECTROLYTE (ACID): HYDROGEN, SULFUR DIOXIDE, SULFUR TRIOXIDE.

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===== Toxicological Information ==========

Toxicological Information:NO DATA PROVIDED BY RESPONSIBLE PARTY.

========== Ecological Information ==========

Ecological:NO DATA PROVIDED BY RESPONSIBLE PARTY.

========== Disposal Considerations ==========

Waste Disposal Methods:BATTERY ELECTROLYTE (ACID): NEUTRALIZE AS ABOVE FOR A SPILL, COLLECT RESIDUE, AND PLACE IN A DRIM OR SUITABLE CONTAINER. DISPOSE OF AS A HAZARDOUS WASTE. DO NO
T FLUSH
LEAD-CONTAMINATED ACID INTO SEWER . BATTERIES: SEND TO LEAD SMELTER FOR RECALAMTION FOLLOWING APPLICABLE FEDERAL, STATE, AND LOCAL REG ULATIONS.

========== MSDS Transport Information ==========

Transport Information:DOT: BATTERY, WET, FILLED WITH ACID, UN2794, CLASS 8. IATA: BATTERY, WET, FILLED WITH ACID, UN2794, CLASS 8. IMO: BATTERY, WET, FILLED WITH ACID, UN2794, CLASS 8.

========== Regulatory Information ==========

SARA Title III Information:THE CONTENTS OF THIS PRODUCT ARE TOXIC CHEMICALS THAT ARE SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 302 AND 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 (40 CFR 355 AND 372).
Federal Regulatory Information:NO DATA PROVIDED BY RESPONSIBLE PARTY.
State Regulatory Information:NO DATA PROVIDED BY RESPONSIBLE PARTY.

========== Other Information ==========

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y the compiling agencies):
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