Product ID:MAINTENANCE FREE/VALVE REG/SEALED LEAD-ACID BATTERY,90472

MSDS Date:03/01/1996

FSC:6140

NIIN:00-432-0490

MSDS Number: CDPXQ
=== Responsible Party ===
Company Name: EXIDE CORP
Address: 645 PENN STREET

City:READING

State:PA

ZIP:19612-4205 Country:US

Info Phone Num:610-378-0550/ FAX -0616 Emergency Phone Num:610-378-0500/800-424-

9300(CHEMTREC)

CAGE:20038

=== Contractor Identification ===

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

CAGE:1U269

Company Name: EXIDE CORP Address: 645 PENN STREET

Box:14205 City:READING

State:PA

ZIP:19612-4205 Country:US

Phone:610-378-0500/0798

CAGE:20038

Company Name: SONNENSCHEIN BATTERIES INC

Address:300 E JOHNSON AVE

Box:339

City:CHESHIRE

State:CT ZIP:06410 Country:US

Phone:203-271-0091

CAGE:9Z763

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

Ingred Name:LEAD (SARA 313) (CERCLA)

CAS:7439-92-1

RTECS #:OF7525000 Fraction by Wt: 50%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:SEE 1910.1025

ACGIH TLV:0.05MG/M3, A3; 9596

EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name: CALCIUM, METAL

CAS:7440-70-2 RTECS #:EV8040000 Fraction by Wt: 0.02%

Other REC Limits: NONE RECOMMENDED

Ingred Name:TIN CAS:7440-31-5

RTECS #:XP7320000 Fraction by Wt: 0.06%

Other REC Limits: NONE RECOMMENDE

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OSHA PEL:2 MG/M3

ACGIH TLV:2 MG/M3; 9596

Ingred Name: SULFURIC ACID (SARA 302/313) (CERCLA)/ELECTROLYTES (28.5%)

CAS:7664-93-9

RTECS #:WS5600000 Fraction by Wt: 37%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3/3 STEL; 9596

EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

Ingred Name: SILICA, CRYSTALLINE - FUSED/SILICON DIOXIDE

CAS:60676-86-0 RTECS #:VV7328000 Fraction by Wt: 6%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:SEE TABLE Z-3

ACGIH TLV:0.1 MG/M3 RDUST;9596

Ingred Name

:ACRYLONITRILE-BUTADIENE-STYRENE TERPOLYMER/CASE MATERIAL PERCENTAGE FOR INGREDEIENTS 6 AND 7: 5-6. CAS:9003-56-9 RTECS #:AT6970000 Fraction by Wt: SEE ING Other REC Limits: NONE RECOMMENDED Ingred Name: POLYPROPYLENE CAS:9003-07-0 RTECS #:TR5000000 Fraction by Wt: SEE # 6% Other REC Limits: NONE RECOMMENDED ============= Hazards Identification ======================== LD50 LC50 Mixture:LD50 (ORAL, RAT) IS NOT RELEVANT. Routes of Entry: Inhalation:NO Skin:NO Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:YES 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 & RESPIRATORY 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: CONTAINS LEAD. Effects of Overexposure:GI UPSET, LO SS OF APPETITE, DIARRHEA, CONSTIPATION, CRAMPING, LACK OF SLEEP, FATIGUE, SEVERE IRRITATION, BURNS, CORNEAL AND LUNG DAMAGE, BLINDNESS, IRRITABILITY, ULCERATION Medical Cond Aggravated by Exposure: LEAD AND ITS COMPOUNDS CAN AGGRAVATE CHRONIC FORMS OF KIDNEY, LIVER AND NEUROLOGIC DISEASES. CONTACT OF SULFURIC ACID WITH SKIN MAY AGGRAVATE DISEASES SUCH AS ECZEMA. ACID MIST AGGRAVATES LUNG DISEASE

First Aid:O

BTAIN MEDICAL ATTENTION IMMEDIATELY IN ALL CASES OF EXPOSURE. EYES/SKIN: IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES. KEEP EYELIDS OPEN. INHALATION:MOVE TO FRESH AIR. INGESTION:DO NOT INDUCE VOMITING. IF CONSCIOUS, DRINK LARGE AMOUNT OF WATER OR MILK FOLLOWED BY MILK OF MAGNESIA, BEATEN EGGS OR VEGETABLE OIL.

Flash Point: NON-FLAMMABLE Lower Limits: 4.1% (H2) Upper Limits:74.2% (H2) Extinguishing Media: USE CARBO N 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 RESULT IN RELEASE OF CORROSIVE MATERIALS. HYDROGEN GAS, IF PRESENT, IS EXPLOSIVE/FLAMMABLE.

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

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), QUICKLIME (CALCIUM OXIDE)

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

Handling an

d 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 REQUIRE

D UNDER NORMAL USE. USE

NIOSH-APPROVED ACID-MIST FILTER RESPIRATOR IF 1 MG/M3 TWA IS EXCEEDED (ACID).

Ventilation: ADEQUATE GENERAL VENTILATION. IF MECHANICAL VENTILATION IS USED. COMPONENTS MUST BE ACID-RESISTANT.

Protective Gloves: RUBBER OR PLASTIC

Eye Protection: SPLASH-PROOF CHEMICAL GOGGLES/FACESHIELD

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:SEALED BATTERY CONTAINING SULFURIC ACID AND LEAD.
Stabilit y Indicator/Materials to Avoid:YES SOLVENTS THAT DISSOLVE BATTERY CASE MATERIAL, ORGANIC MATERIALS, STRONG REDUCING AGENTS, METALS, WATER, STRONG OXIDIZERS Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES, OVERCHARGING, SMOKING, SPARKS Hazardous Decomposition Products:LEAD OXIDE, HYDROGEN, SULFUR DIOXIDE, SULFUR TRIOXIDE, CARBON MONOXIDE, METAL FUME, VAPOR OR DUST, TOXIC ARSINE GAS
========== Disposal Considerations ==============

Waste Disposal Methods:DIS

POSE AS HAZARDOUS WASTE. OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS FOR ACID OR LEAD SCRAP. SEND BATTERIES TO LEAD SMELTER FOR RECLAMATION FOLLOWING APPLICABLE FEDERAL, STATE AN D LOCAL REGULATIONS.

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