

EXIDE CORP.-GENERAL BATTERY CORP -- LEAD-ACID BATTERY,WB 131,13 M 2 A --  
6140-00-836-1282

===== Product Identification =====

Product ID:LEAD-ACID BATTERY,WB 131,13 M 2 A  
MSDS Date:02/01/1996  
FSC:6140  
NIIN:00-836-1282  
MSDS Number: BFRVZ  
=== Responsible Party ===  
Company Name:EXIDE CORP.-GENERAL BATTERY CORP  
Address:645 PENN STREET  
Box:14205  
City:READING  
State:PA  
ZIP:19601  
Country:US  
Info Phone Num:  
215-378-0527/610-378-0500  
Emergency Phone Num:215-378-0527/800-424-9300(CHEMTREC)  
CAGE:08163  
=== Contractor Identification ===  
Company Name:BATTERY OUTLET INC  
Address:1608 CAMPOSTELLA RD  
Box:City:CHESAPEAKE  
State:VA  
ZIP:23324  
Country:US  
Phone:757-545-4442  
CAGE:0FGN2  
Company Name:EXIDE CORP.-GENERAL BATTERY CORP  
Address:645 PENN STREET  
Box:City:READING  
State:PA  
ZIP:19601  
Country:US  
Phone:215-378-0527/800-424-9300(CHEMTREC)  
CAGE:08163

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

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Ingred Name:LEAD (SARA 313) (CERCLA)/LEAD,LEAD OXIDE,LEAD SULFATE  
CAS:7439-92-1  
RTECS #:OF7525000  
Fraction by Wt: 53%  
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:ANTIMONY (SARA 313) (CERCLA)  
CAS:7440-36-0  
RTECS #:CC4025000  
Fraction by Wt: 0.2%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:0.5 MG/M3  
ACGIH TLV:0.5 MG (SB)/M3; 9596  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:ARSENIC (SARA 313)  
(CERCLA)  
CAS:7440-38-2  
RTECS #:CG0525000  
Fraction by Wt: 0.003%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:SEE 1910.1018  
ACGIH TLV:0.01 MG/M3, A1; 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 RECOMMENDED  
OSHA PEL:2 MG/M3  
ACGIH TLV:2 MG/M3; 9596

Ingred Name:SULFURIC ACID (SARA 302/313) (CERCLA)/E

LECTROLYTE  
CAS:7664-93-9  
RTECS #:WS5600000  
Fraction by Wt: 30 - 40%  
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:POLYPROPYLENE (PRINCIPAL CASE MATERIAL OF AUTOMOTIVE AND  
COMMERCIAL BATTERIES)  
CAS:9003-07-0  
RTECS #:TR5000000  
Fraction by Wt: 5 - 6%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:HARD RUBBER  
Other REC Limits:NONE RECOMMENDED

Ingred Name:SILICONE DIOXIDE (GEL CELL BATTERIES)/SILICA, CRYST  
ALLINE -  
FUSED  
CAS:60676-86-0  
RTECS #:VV7328000  
Fraction by Wt: 3 - 5%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:SEE TABLE Z-3  
ACGIH TLV:0.1 MG/M3 RDUST;9596

===== 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:NO 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 DAMAGE. CHRONIC- LEAD MAY CAUSE  
ANEMIA, KIDNEY & NERVOUS SYSTEM DAMAGE. ACID CAN CAUSE BRONCHITIS,  
EROSION OF TOOTH ENAMEL.  
Explanation of Carcinogenicity:NONE  
Effects of Overexposure:GI UPSET, LOSS OF APPETITE, DIARRHEA,  
CONSTIPATION, CRAMPING, LACK OF SLEEP, FATIGUE, SEVERE IRRITATION,  
BURNS, CORNEAL AND LUNG DAMAGE, BLINDNESS, ULCERATION, WRIST

DROP,  
REPRODUCTIVE CHANGES

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 Measures =====

First Aid:OBTAIN MEDICAL ATTENTION IMMEDIATELY IN ALL CASES OF  
EXPOSURE. EYES/SKIN:IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES.  
KEEP EYELIDS  
OPEN. INHALATION:REMOVE TO FRESH AIR IMMEDIATELY. IF  
BREATHING IS DIF FICULT, PROVIDE OXYGEN. INGESTION:DO NOT INDUCE  
VOMITING. IF CONSCIOUS, DRINK LARGE AMOUNT OF WATER OR MILK.

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

Flash Point:NON-FLAMMABLE  
Lower Limits:4.1%HYDROGEN  
Upper Limits:74.2HYDROGEN  
Extinguishing Media:USE CARBON DIOXIDE, SAND, HALON/DRY CHEMICAL. WATER  
APPLIED TO ELECTROLYTE GENERATES HEAT AND CAUSES IT TO SPATTER.  
Fire Fighting Procedure  
s: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.

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

Spill Release Procedures:WEAR PROTECTIVE EQUIPMENTS. VENTILATE AREA.  
REMOV  
E 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 AND PLACE IN A DRUM. DO NOT FLUSH TO  
SEWER.  
Neutralizing Agent:SODA ASH (SODIUM CARBONATE), QUICKLIME (CALCIUM  
OXIDE)

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

Handling and 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/OVERCHARGE BATTERIES. KEEP LIGHTED CIGARETTES, SPARKS, AND FLAMES AWAY FROM BATTERIES. KEEP OUT OF REACH OF CHILDREN. AVOID METALLIC ARTI CLES TO CONTACT TERMINALS OF A BETTERY.

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

Respiratory Protection:NOT REQUIRED UNDER NORMAL USE. USE NIOSH-APPROVED ACID-MIST FILTER RESPIRATOR IF 1 MG/M3 TWA IS EXCEEDED (ACID).

Ventilation:ADEQUATE GENERAL VENTILATION

Protective Gloves:RUBBER

Eye Protection:SPLASH-PROOF CHEMICAL GOGGLES

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

===== Physical/Chemical Properties =====  
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HCC:C1

NRC/State Lic Num:NOT RELEVANT

Spec Gravity:1.23-1.35(ACID)

Viscosity:NOT RELEVANT

Evaporation Rate & Reference:NOT RELEVANT

Solubility in Water:NOT RELEVANT

Appearance and Odor:BATTERY CONTAINING SULFURIC ACID AND LEAD.

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

Stability Indicator/Materials to Avoid:YES

COMBUSTIBLES, ORGANIC MATERIALS, METALS, REDUCING AGENTS, SULFUR TRIOXIDE, WATER, BASES

Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES, OVERCHARGING, SMOKING, SPARKS

Hazardous Decomposition Products:LEAD OXIDE, HYDROGEN, SULFUR DIOXIDE, SULFUR TRIOXIDE, METAL FUMES, SULFURIC ACID MIST

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

Waste Disposal Methods:DISPOSE 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 AND LOCAL REGULATIONS.

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d with this information by the compiling agencies):

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