

EXIDE CORP -- LEAD-ACID BATTERY -- 6140-01-261-4977

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

Product ID:LEAD-ACID BATTERY

MSDS Date:02/01/1993

FSC:6140

NIIN:01-261-4977

MSDS Number: BLLYD

=== Responsible Party ===

Company Name:EXIDE CORP

Address:645 PENN STREET

City:READING

State:PA

ZIP:19612-4205

Country:US

Info Phone Num:215-378-0757/ FAX -0616

Emergency Phone Num:215-378-0757/800-424-9300(CHEMTREC)

CAGE:20038

=== 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: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:ENERSYS INC

Address:8306PATUXENT RANGE RS SUITE 103

Box:City:JESSUP

State:MD

ZIP:20794-8609

Country:US

Phone:301-381-8500 OR 215-378-0757

CAGE:90660

Co

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:HYSTER CO,PARTS DEPOT  
Address:1010 E FAIRCHILD ST.  
Box:334  
City:DANVILLE  
State:IL  
ZIP:61832-3330  
Country:US  
CAGE:04627

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Composition/Information on Ingredients  
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Ingred Name:LEAD (SARA III)  
CAS:7439-92-1  
RTECS #:OF7525000  
Fraction by Wt: 53%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:SEE 1910.1025  
ACGIH TLV:0.15 MG/M3  
;DUST 9394  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:ANTIMONY (SARA III)  
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; 9394  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:ARSENIC (ORGANIC COMPOUNDS) (SARA III)  
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; 9394  
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; 9394

Ingred Name:SULFURIC ACID (SARA III)  
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; 9394  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:POLYPROPYLENE  
CAS:9003-07-0  
  
RTECS #:TR5000000  
Fraction by Wt: 5-6%  
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:NOT SPECIFIED BY MANUFACTURER.  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO  
Health Hazards Acute and Chronic:ACUTE:SULFURIC ACID MAY CAUSE SEVERE IRRITATION/BURNS OF EYES, NOSE, MOUTH, THROAT AND STOMACH., MAY DAMAGE EYES, UPPER RESPIRATORY SYSTEM. CHRONIC:TEE TH EROSION, INFLAMMATION OF THE NOSE, THROAT AND BRONCHIAL TUBES, CNS, BLOOD, KIDNEYS, GUMS.  
Explanation of Carcinogenicity:ARSENIC IS LISTED AS CARCINOGEN BY NTP & IARC. LEAD AND INORGANIC LEAD COMPOUNDS ARE LISTED BY NTP,IARC AS POSSIBLE CAR  
Effects of Overexposure:SEVERE SKIN IRRITATION, DAMAGE TO CORNEA, UPPER RESPIRATORY IRRITATION, HEADACHE, FATIGUE, ABDOMINAL PAIN, LOSS OF APPETITE, MUSCULAR ACHES AND WEAKNESS, POSSIBLE EROSION OF TOOTH ENAMEL., INFLAMMATIO N

OF NOSE, THROAT AND BRONCHIAL TUBES.,ANEMA,  
NEUROPATHY, PARTICULARLY OF THE MOTOR NERVES,WITH WRIST DROP,KIDNEY  
DAMAG

Medical Cond Aggravated by Exposure:PULMONARY CONDITIONS, SKIN DISEASES  
SUCH AS ECZEMA AND DERMATITIS, KIDNEY, LIVER AND NEUROLOGIC  
DISEASES.

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

First Aid:SEEK MEDICAL CARE IN ALL CASES. EYES/SKIN: FLUSH WITH WATER  
FOR AT LEAST 15 MINUTES. INHALATION: REMOVE TO FRESH AIR. GIVE  
CPR/OXYGEN  
IF NEEDED. INGESTION: DO NOT INDUCE VOMITING. IF  
CONSCIOUS, DRINK PROMPTLY A LARGE QUANTITY OF MILK, EGG WHITES,  
GELATIN SOLUTION OR WATER.

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

Lower Limits:4.1 (H2)

Upper Limits:74.2 (H2)

Extinguishing Media:CARBON DIOXIDE, DRY CHEMICAL, HALOGEN

Fire Fighting Procedures:IF BATTERIES ARE ON CHARGE, SHUT OFF POWER.  
USE POSITIVE PRESSURE, SELF-CONTAINED BREATHING APPARATUS. WATER  
APPLIED TO ELECTROLYTE-> HEAT & CAU

SES SPATTERING

Unusual Fire/Explosion Hazard:HIGHLY FLAMMABLE HYDROGEN GAS IS  
GENERATED DURING CHARGING OF BATTERIES. KEEP SPARKS OR OTHER  
SOURCES OF IGNITION AWAY FROM BATTERIES. BATTERIES MAY EXPLODE.

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

Spill Release Procedures:WEAR PROTECTIVE EQUIPMENT. LIME OR SODA ASH  
MAY BE USED TO NEUTRALIZE AFTER DILUTING WITH WATER. CONTAIN LARGER  
SPILLS WITH SAWDUST OR OTHER ABSORBENT MATERIAL. DO NOT ALLOW  
DISCHARG

E OF UNNEUTRALIZED ACID TO SEWER.

Neutralizing Agent:SODIUM BICARBONATE SOLUTION (1 LB TO 1 GALLON OF  
WATER) -LIME OR SODA ASH

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

Handling and Storage Precautions:STORE IN COOL, DRY, WELL-VENTILATED  
AREAS WITH IMPERVIOUS SURFACES AND ADEQUATE CONTAINMENT IN THE  
EVENT OF SPILLS. STORE UNDER ROOF.

Other Precautions:KEEP TERMINALS COVERED IN PLASTIC CASE. DO NOT SHORT  
TERMINALS WITH TOOLS, ETC. DO NOT CRACK OR OVERCH

ARGE BATTERIES.

KEEP LIGHTED CIGARETTES, SPARKS AND FLAMES AWAY FROM CHARGING BATTERIES. DO NOT TO UCH ACID ELECTROLYTE.

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===== 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. IF MECHANICAL VENTILATION IS USED, COMPONENTS MUST BE ACID RESISTANT.

Protective Gloves:RUBBER OR PLASTIC.

Eye

Protection:SPLASH-PROOF CHEMICAL GOGGLES

Other Protective Equipment:RUBBER APRON AND BOOTS, EYEWASH STATION AND SAFETY SHOWER. USE ACID-PROOF CLOTHING FOR MAJOR SPILLS.

Work Hygienic Practices:REMOVE METALLIC JEWELRY-SHOCK POTENTIAL. WASH THOROUGHLY AFTER HANDLING.

Supplemental Safety and Health

NONE SPECIFIED BY MANUFACTURER.

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

HCC:C1

Boiling Pt:=95.C, 203.F

B.P. Text:203-240F

Vapor Pres:10

Vapor Density:> 1

Spec Gravi

ty:1.230-1.350

pH:ACID

Evaporation Rate & Reference:< 1 (N-BUTYL ACETATE=1)

Solubility in Water:COMPLETE -ELECTROLYTE

Appearance and Odor:ARTICLE: NO APPARENT ODOR, ELECTROLYTE: CLEAR LIQUID WITH A SHARP, PUNGENT ODOR

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

Stability Indicator/Materials to Avoid:YES

COMBUSTIBLE AND ORGANIC MATERIALS, STRONG REDUCING AGENTS, METALS, BASES,HALIDES,POTASSIUM NITRATE,PERMANGNATE,PEROXDES.

Stability Condition to Avoid:OPEN FLA

MES, SOURCES OF IGNITION,  
PROLONGED OVERCHARGE.

Hazardous Decomposition Products: SULFURIC ACID MIST, OXSIDES OF SULFUR,  
CARBON MONOXIDE, HYDROGEN.

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

Waste Disposal Methods: PLACE NEUTRALIZED SLURRY INTO SEALED CONTAINERS  
AND DISPOSE OF AS HAZARDOUS WASTE AS APPLICABLE. DISPOSE OF IN  
ACCORDNACE WITH FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS  
FOR ACID OR LEAD SCRAP . RETURN SPENT BATTERY TO SECONDARY

LEADSMELTER.

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