

EXIDE CORP -- LEAD-ACID BATTERY -- 6140-00-836-1279

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

Product ID:LEAD-ACID BATTERY

MSDS Date:07/01/1991

FSC:6140

NIIN:00-836-1279

MSDS Number: BNWNW

=== Responsible Party ===

Company Name:EXIDE CORP

Address:645 PENN ST

City:READING

State:PA

ZIP:19612-4205

Country:US

Info Phone Num:215-378-0798

Emergency Phone Num:215-378-0798

CAGE:20038

=== Contractor Identificati

on ===

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

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: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

===== Comp

osition/Information on Ingredients =====

Ingred Name:LEAD (SARA III)  
CAS:7439-92-1  
RTECS #:OF7525000  
Fraction by Wt: 60%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:0.05 MG/M3;1910.1025  
ACGIH TLV:0.15 MG/M3;DUST 9192  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:ANTIMONY (SARA III)  
CAS:7440-36-0  
RTECS #:CC4025000  
Fraction by Wt: 2%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:0.5 MG/M3  
ACGIH TLV:0.5 MG SB/M3; 9192  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:ARSENIC (SARA III)  
C  
AS:7440-38-2  
RTECS #:CG0525000  
Fraction by Wt: 0.2%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:0.5 MG/M3 (AS)  
ACGIH TLV:0.01,A1 MG/M3; 9394  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:CALCIUM, METAL  
CAS:7440-70-2  
RTECS #:EV8040000  
Fraction by Wt: 0.2%  
Other REC Limits:NONE SPECIFIED

Ingred Name:TIN  
CAS:7440-31-5  
RTECS #:XP7320000  
Fraction by Wt: 0.2%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:2 MG/M3  
ACGIH TLV:2 MG/M3; 9192

Ingred Name:SULFURIC ACID (SARA III)  
CAS:7664-93-9  
RTECS #:WS5600000  
F

raction by Wt: 10-30%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:1 MG/M3  
ACGIH TLV:1 MG/M3; 9192  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:CASE MATERIAL  
Fraction by Wt: 5-10%  
Other REC Limits:NONE SPECIFIED

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES  
Health Hazards Acute and Chronic:INHALATION: BREATHING OF SULFURIC ACID  
VAPORS OR MISTS MAY  
CAUSE SEVERE RESPIRATORY IRRITATION. INGESTION:  
MAY CAUSE SEVERE IRRITATION OF THE MOUTH, THROAT, ESOPHAGUS AND  
STOMACH. SKIN: SEVERE IRRITATION, BURNS AND ULCERATIONS. EYES:  
SEVERE IRRITATION, BURNS, CORNEA DAMAGE, BLINDNESS.  
Explanation of Carcinogenicity:THE SULFURIC ACID ELECTROLYTE MAY  
CONTAIN SOME DISOLVED ARSENIC.  
Effects of Overexposure:INHALATION: SEVERE RESPIRATORY IRRITATION.  
INGESTION: ABDOMINAL APIN, NAUSEA, VOMITING, DIARRHEA AND SEVERE  
CRAMPING. SKIN: BURN  
S AND ULCERATION. EYE: BURNS, CORNEAL DAMAGE.  
SYMPTOMS OF TOXICITY INCLU DE HEADACHE, FATIGUE, ABDOMINAL PAIN,  
LOSS OF APETITE, MUSCULAR ACHES AND WEAKNESS, SLEEP DISTURBANCES.  
Medical Cond Aggravated by Exposure:PULMONARY CONDITIONS AND SKIN  
DISEASES SUCH AS ECZEMA AND CONTACT DERMITIS. DISOLVED LEAD CAN  
AGGRAVATE SOME FORMS OF KIDNEY, LIVER AND NEUROLOGIC DISEASES.

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

First Aid:INHALATION: REMOVE FROM EXPOSURE  
, GARGLE, WASH NOSE AND LIPS,  
CONSULT PHYSICIAN. INGESTION: GIVE LARGE QUANTITIES OF WATER. DO  
NOT INDUCE VOMITING. CONTACT PHYSICIAN. SKIN: FLUSH WITH LARGE  
AMOUNTS OF WATER FOR AT LEAST 15 MIN. REMOVE CONTAMINATED CLOTHING  
COMPLETELY, INCLUDING SHOES. EYES: FLUSH IMMEDIATELY WITH WATER FOR  
AT LEAST 15 MIN. CONSULT PHYSICIAN.

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

Flash Point:NON-FLAMMABLE  
Extinguishing Media:CARBON DIOXIDE; FOAM; DRY CHEMICAL

; HALOGEN.

Fire Fighting Procedures:IF BATTERIES ARE CHARGING, SHUT OFF POWER. USE POSITIVE PRESSURE, SCBA. WEAR ACID RESISTANT CLOTHING.

Unusual Fire/Explosion Hazard:WATER APPLIED TO ELECTROLYTE GENERATES HEAT AND CAUSES IT TO SPATTER. HIGHLY FLAMMABLE HYDROGEN GAS IS GENERATED DURING CHARGING AND OPERATION.

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

Spill Release Procedures:STOP FLOW OF MATEIAL, CONTAIN/ABSORB SMALL SPILLS WITH DRY SAND, EARTH, VERMICULITE. DO NOT USE COMBUSTIBLE

MATERIALS. IF POSSIBLE, CARDFULLY NEUTRALIZE WITH SODA ASH, SODIUM BICARBONATE, LIME, ETC. WEAR ACID-RESISTANT CLOTHING.

Neutralizing Agent:SODA ASH OF SODIUM BICARBONATE.

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

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

Other Precautions:THE BATTERY ITSELF CONTAINS THE FOLLOWING, WHICH MAY

BE DISOLVE IN THE ELECTROLYTE: LEAD, ANTIMONY, ARSENIC, CALCIUM, AND TIN. GELL CELL BATTERIES MAY ALSO CONTAIN SILICON DIOXIDE.

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

Respiratory Protection:NONE REQUIRED UNDER NORMAL CONDITIONS. WHEN CONCENTRATIONS OF SULFURIC ACID MIST ARE KNOWN TO EXCEED PEL, USE NIOSH OR MSHA-APPROVED RESPIRATORY PROTECTION.

Ventilation:IF MECHANICAL VENTILATION IS USED, COMPONENTS MUST BE ACID-RESISTANT

Protective Gloves:RUBBER OR PLASTIC ACID-RESISTANT.

Eye Protection:CHEMICAL GOGGLES OR FACE SHIELD.

Other Protective Equipment:ACID-RESISTANT APRON. UNDER SEVERE EXPOSURE OR EMERGENCY CONDITIONS, WEAR ACID-RESISTANT CLOTHING AND BOOTS.

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

HANDLE BATTERIES CAUTIOUSLY TO AVOID SPILLS, MAKE CERTAIN VENT CAPS ARE ON SECURELY. AVOID CONTACT WITH INTERNAL COMPONENTS.

===== Physical/Chemical Pro

perties =====

HCC:C1

Boiling Pt:B.P. Text:203F, ACID

Vapor Pres:10 MM HG

Vapor Density:>1, ACID

Spec Gravity:1.230, ACID

pH:ACID

Evaporation Rate & Reference: