

EXIDE CORP -- LEAD-ACID BATTERY -- 6140-01-051-4900

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

Product ID:LEAD-ACID BATTERY

MSDS Date:09/01/1993

FSC:6140

NIIN:01-051-4900

MSDS Number: BTKTC

=== Responsible Party ===

Company Name:EXIDE CORP

Address:645 PENN STREET

City:READING (FORMALLY IN HORSHAM)

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: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

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

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;INGRED 7+8 IS 5-6%

CAS:9003-07-4

RTECS #:UD1842000

Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:PRODUCT'S LD50 (ORAL RAT) WAS NOT STATED

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO

Health Hazards Acute and Chronic:SULFURIC ACID IS HARMFUL BY ALL ROUTES OF ENTRY. HAZARDOUS E

XPOSURE TO LEAD COMPOUNDS CAN OCCUR ONLY WHEN PRODUCT IS HEATED, OXIDIZED OR OTHERWISE PROCESSED OR DAMAGED TO CREATE DUST, VAPOR OR FUME.

Explanation of Carcinogenicity:CONTAINS SULFURIC ACID, LEAD & ARSENIC. SEE THE INDIVIDUAL IARC & NTP REPORTS FOR DETAILS OF CARCINOGENICITY.

Effects of Overexposure:INHALATION:SEVERE RESPIRATORY IRRITATION. INGESTION:SEVERE IRRITATION OF G/I TRACT, ABDOMINAL PAIN, NAUSEA, DIARRHEA, CRAMPING. SKIN:SEVERE IRRITATION, BURNS, ULCERATION. EYE:SEVERE IRRITATION, DAMAGE TO CORNEA, BLINDNESS.

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN, LIVER, KIDNEY, NEUROLOGICAL AND RESPIRATORY AILMENTS MAY BE AT INCREASED RISK FROM EXPOSURE EITHER LEAD OR SULFURIC ACID.

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

First Aid:IF IRRITATION PERSISTS OR IS SEVERE, GET MEDICAL ATTENTION.

EYE:FLUSH W/WATER FOR 15 MIN. SKIN:WASH W/SOAP & WATER. REMOVE CONTAMINATED CLOTHING & LAUNDRER B

EFORE REUSE. INHALED:REMOVE FROM EXPOSURE. A ID OR RESTORE BREATHING AS NEEDED. INGESTED:DO NOT INDUCE VOMITING. GIVE 1-2 GLASSES OF MILK OR WATER TO DRINK. GET IMMEDIATE MEDICAL ATTENTION. GET IMMEDIATE MEDICAL ATTENTION FOR ANY LEAD EXPOSURE.

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

Lower Limits:4.1 (H2)

Upper Limits:74.2 (H2)

Extinguishing Media:CARBON DIOXIDE,FOAM,DRY CHEMICAL. WATER APLIED TO ELECTROLYTE CAUSES IT TO SPATTER.

Fire Fightin

g Procedures:IF BATTERIES ARE ON CHARGE, SHUT OFF POWER.  
USE A POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS. WEAR  
ACID RESISTANT CLOTHING.  
Unusual Fire/Explosion Hazard:FLAMMABLE HYDROGEN GAS IS GENERATED  
DURING OPERATION AND CHARGING OF BATTERIES. KEEP IGNITION SOURCES  
AWAY FROM BATTERIES. FOLLOW MFR'S USE & CARE INSTRUCTIONS.

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

Spill Release Procedures:USE ACID RESISTANT PROTECTIVE CLOTHING. SOAK  
UP  
WITH NON-COMBUSTIBLE INERT ADSORBANT (EG.CLAY. SAND). PLACE  
COLLECTED MATERIEL IN AN APPROPRIATE CONTAINER FOR DISPOSAL. DO NOT  
DISCHARGE UNNEUTRALIZED ACID TO SEWER.  
Neutralizing Agent:SODA ASH, SODIUM BICARBONATE, LIME.

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

Handling and Storage Precautions:STORE BATTERIES IN A COOL, DRY, WELL  
VENTILATED AREA W/CONTAINMENT FOR SPILLS & ADEQUATE WATER. STORE  
UNDER ROOF. SEPARATE FROM INCOMPATIBLE MATERIALS

Other

Precautions:KEEP AWAY FROM HEAT,SPARKS AND FLAMES. HAVE A WATER  
SUPPLY READY FOR EMERGENCIES.

===== 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:STORE & HANDLE IN WELL VENTILATED AREA. MECHANICA  
VENTILATION MUST BE ACID RESISTANT.

Protective Gloves:ELBOW LENGTH RUBBER/PLAS  
TIC ACID RESISTA

Eye Protection:CHEMICAL GOGGLES OR FACE SHIELD

Other Protective Equipment:ACID RESISTANT APRON, EYE WASH & SAVETY  
SHOWER. FOR EMERGENCIES, ACID RESISTANT CLOTHING & BOOTS.

Work Hygienic Practices:MFR:?. HMIS:USE GOOD CHEMICAL HYGIENE  
PRACTICES. AVOID CONTACT IF AT ALL POSSIBLE. WASH THOROUGHLY AFTER  
HANDLING.

Supplemental Safety and Health  
NONE

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

HCC:C1

NRC/State Lic Num:NONE

Boiling Pt:B.P. Text:20

3F,95C

Vapor Pres:11-17 MM

Vapor Density:>1

Spec Gravity:1.23-1.35

Evaporation Rate & Reference: