

EXIDE CORP.-GENERAL BATTERY CORP -- LEAD-ACID BATTERY -- 6140-01-090-6667

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Product Identification  
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Product ID:LEAD-ACID BATTERY

MSDS Date:02/01/1996

FSC:6140

NIIN:01-090-6667

MSDS Number: CDGPP

=== Responsible Party ===

Company Name:EXIDE CORP.-GENERAL BATTERY CORP

Address:645 PENN STREET

City:READING

State:PA

ZIP:19601

Country:US

Info Phone Num:215-378-0527

Emergency Phone Num:215-378-

0527/800-424-9300(CHEMTREC)

CAGE:08163

=== Contractor Identification ===

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

Company Name:MULE EMERGENCY LIGHTING INC

Address:325 VALLEY ST

Box:City:PROVIDENCE

State:RI

ZIP:02908

Country:US

Phone:401-521-6853

CAGE:26947

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Composition/Information on Ingredients  
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Ingred Name:LEAD (SARA III)

CAS:7439-92-1

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TECS #: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

Ingred Name:HARD RUBBER  
Other REC Limits:NONE RECOMMENDED

Ingred Name:SILICA, CRYSTALLINE - FUSED (GELL CELL BATTERIES ONLY)  
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;9495

===== Hazards Identification  
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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 EXPOSURE 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 R

ISK FROM EXPOSURE EITHER LEAD OR SULFURIC ACID.

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First Aid Measures  
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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 & LAUNDER BEFORE 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 I  
MMEDIATE MEDICAL ATTENTION FOR  
ANY LEAD EXPOSURE.

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Fire Fighting Measures  
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Flash Point:NONFLAMMABLE  
Lower Limits:4.1 (H2)  
Upper Limits:74.2 (H2)  
Extinguishing Media:CARBON DIOXIDE, FOAM, DRY CHEMICAL. WATER APPLIED  
TO ELECTROLYTE CAUSES IT TO SPATTER.  
Fire Fighting Procedures:IF BATTERIES ARE ON CHARGE, SHUT OFF POWER.  
USE A POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS. WEAR  
ACID RESISTANT CLOTHING.  
Unusual Fire/Explosion Haz  
ard:FLAMMABLE HYDROGEN GAS IS GENERATED  
DURING OPERATION AND CHARGING OF BATTERIES. KEEP IGNITION SOURCES  
AWAY FROM BATTERIES. FOLLOW MFR'S USE & CARE INSTRUCTIONS.

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Accidental Release Measures  
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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.  
Neut  
ralizing Agent:SODA ASH, SODIUM BICARBONATE, LIME.

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Handling and Storage  
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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.

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Exposure Controls/Personal Protection  
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Respiratory P

rotection: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/PLASTIC ACID RESISTA

Eye Protection:CHEMICAL GOGGLES OR FACE SHIELD

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

Work Hygienic Practices:WASH HANDS THOROUGHLY WITH SOAP AND WATER  
BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES.

Supplemental Safety and Health

NONE SPECIFIED BY MANUFACTURER.

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

HCC:C1

NRC/State Lic Num:NONE

Boiling Pt:B.P. Text:203F,95C

Melt/Freeze Pt:M.P/F.P Text:NOT GIVEN

Vapor Pres:11-17 MM

Vapor Density:> 1

Spec Gravity:1.23-1.35

Evaporation Rate & Reference: