

EXIDE CORP.-GENERAL BATTERY CORP -- LEAD/ACID STORAGE BATTERY-HYBRID --  
6140-00-438-0299

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

Product ID:LEAD/ACID STORAGE BATTERY-HYBRID

MSDS Date:06/01/1990

FSC:6140

NIIN:00-438-0299

MSDS Number: BKCFE

=== Responsible Party ===

Company Name:EXIDE CORP.-GENERAL BATTERY CORP

Address:645 PENN STREET

City:READING

State:PA

ZIP:19601

Country:US

Info Phone Num:215-378-052

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Emergency Phone Num:215-378-0527

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

===== Composition/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:SULFURIC ACID (SARA III)  
CAS:7664-93-9  
RTECS #:WS5600000  
Fraction 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: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)  
CAS:7440-38-2  
RT  
ECS #: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:POLYPROPYLENE  
Fraction by Wt: 5%  
Other REC Limits:NONE SPECIFIED

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

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

nicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE & CHRONIC-LEAD:STOMACH

CRAMPS,ANEMIA,NERVE DAMAGE(NO EXPOSURE UNDER NORMAL CONDITION OF USE).SULFURIC AID:EROSION OF TEETH,INFLAMMATION OF NOSE,THROAT & BRONCHIAL TUBES.WILL ALSO CAUSE BURNS,SEV ERE IRRITATION OF SKIN,EYES,MOUTH,THROAT,ESOPHAGUS & STOMACH.

Effects of Overexposure:CONTACT WITH SULFURIC ACID RESULTS IN RAPID DESTRUCTION OF BODY TISSUE (BURNS).COUGHING (FROM ACID MIST), STINGING, BURNING SENSATION ON SKIN. EYE IRRITATION.

Medical Cond Aggravated by Exposure:EXPOSURE TO SULFURIC ACID MIST MAY CAUSE LUNG DAMAGE AND AGGRAVATE PULMONARY CONDITIONS.

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

First Aid:SEE A DOCTOR.EYES/SKIN:FLUSH WITH WATER FOR 15 MINUTES.INHALATION OF SULFUR OXIDE:REMOVE TO FRESH AIR.DISCONNECT BATTERIES & VENTILATE THE AREA.INGESTION:DRINK LARGE QUANTITIES OF MILK/WATER,FOLLOWED BY MILK OF MAGNESIA(NO CARBONATES),BEATEN EGGS OR VEGETABLE OIL.SEE DOCTOR IMMEDIATELY.

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

Lower Limits:4.1

Upper Limits:74.2

Extinguishing Media:CO2, FOAM, DRY CHEMICAL

Fire Fighting Procedures:IF ON CHARGE, SHUT OFF POWER.

Unusual Fire/Explosion Hazard:WHILE BATTERIES ARE BEING

CHARGED,HYDROGEN GAS IS GENERATED.AVOID OPEN FLAMES,SPARKS/LIGHTED MATCHES.

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

Spill Release Procedures:AVOID CON

TACT WITH SULFURIC ACID ELECTROLYTE

FROM BATTERY. LIME OR SODA MAY BE USED TO NEUTRALIZE AFTER DILUTING WITH WATER. CONTAIN LARGER SPILLS WITH SAWDUST OR OTHER ABSORBING MATERIAL. WEAR ACID R ESISTANT GLOVES AND OTHER PROTECTIVE CLOTHING.

Neutralizing Agent:LIME OR SODA

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

Handling and Storage Precautions:AVOID SKIN CONTACT.VENTILATE AREA WHEN CHARGING BATTERIES.KEEP AWAY FROM IGNITION SOURCES DURING & AFTER

CHARGING.

Other Precautions:KEEP TERMINALS COVERED IN PLASTIC CASE.AVOID SHORTING BATTERIES.DO NOT CRACK OR OVERCHARGE BATTERIES.KEEP LIGHTED CIGARETTES,SPARKS,AND FLAMES AWAY FROM CHARGING BATTERIES.KEEP BATTERIES AWAY FROM CHILDREN.

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Exposure Controls/Personal Protection  
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Respiratory Protection:USE NIOSH-APPROVED RESPIRATOR IF 1 MG/M3 TWA IS EXCEEDED (ACID).

Ventilation:LOCAL EXHAUST AT CHARGING STATIONS

Protective Gloves:RUBBER

Eye Protection:

SPLASH-PROOF SAFETY GOGGLES

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

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING.

Supplemental Safety and Health

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Physical/Chemical Properties  
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HCC:C1

Appearance and Odor:NONE SPECIFIED BY MANUFACTURER.

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Stability and Reactivity Data  
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Stability Indicator/Materials to Avoid:YES

OXIDIZING

OR REDUCING MATERIALS. MAY PRODUCE TOXIC SULFUR DIOXIDE FUMES AND SULFURIC ACID MIST ON OVERCHARGE.

Stability Condition to Avoid:PROLONGED OVERCHARGE, CONTACT OF SULFURIC ACID WITH ORGANIC COMPOUNDS,METALS. HIGH TEMPERATURES, SPARKS, AND OPEN FLAMES

Hazardous Decomposition Products:MAY GENERATES ARSINE, AND/OR SULFURIC ACID MIST ON OVERCHARGE.

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Disposal Considerations  
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Waste Disposal Methods:DISPOSE IN ACCORDANCE WITH FEDERAL,STATE AND

LOCAL ENVIRONMENTAL REGULATIONS FOR ACID OR LEAD SCRAP.

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