

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:215-378-0527
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
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:POLYPROPYLENE
Fraction by Wt: 5%
Other REC Limits:NONE SPECIFIED

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity: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 Ex

posure:EXPOSURE TO SULFURIC ACID MIST MAY

CAUSE LUNG DAMAGE AND AGGRAVATE PULMONARY CONDITIONS.

===== 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.

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

Spill Release Procedures:AVOID CONTACT WITH SULFURIC ACID ELECTROLYTE FROM BATTERY. LIME OR SOD

A 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

===== 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.

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

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 APR

ON 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

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

HCC:C1

Appearance and Odor:NONE SPECIFIED BY MANUFACTURER.

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

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.

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

Waste Disposal Methods:DISPOSE IN ACCORDANCE WITH FEDERAL,STATE AND
LOCAL ENVIRONMENTAL REGULATIONS FOR ACID OR LEAD SCRAP.

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