

EXIDE CORP -- LEAD-ACID BATTERY -- 6140-01-203-4697

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

Product ID:LEAD-ACID BATTERY

MSDS Date:05/01/1991

FSC:6140

NIIN:01-203-4697

MSDS Number: BLZHN

=== 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/CHEMTREC 800-424-9300

CAGE:20038

=== Co

ntractor Identification ===

Company Name:BATTERY OUTLET INC

Address:1608 CAMPOSTELLA RD

Box:City:CHESAPEAKE

State:VA

ZIP:23324

Country:US

Phone:757-545-4442

CAGE:0FGN2

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)/LEAD OXIDE/LEAD SULPHATE

CAS:7439-92-1

RTECS #:OF7525000

Fraction by Wt: 60%

Other REC Limi

ts: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)
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: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: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

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

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES

Health Hazards Acute and Chronic:ACUTE-INHALED:ACID MISTS MAY CAUSE

SEVERE RESPIRATORY IRRITATION.LEAD DUSTS/FUMES IRRITATE

LUNGS.ORAL:ACID CAUSE SEVERE IRRITATION OF GI TRACT.LEAD CAUSES

ABDOMINAL PAIN,VOMITING,SEVERE CRAMPING.EYE/S KIN:SEVERE

IRRITATION,BURNS,ULCERATION,BLINDNESS.CHRONIC-ACID:EROSIONS

OF

TOOTH ENAMEL.LEAD:ANEMIA,KIDNEY & NERVE DAMAGE

Explanation of Carcinogenicity:LEAD IS POSSIBLY CARCINOGENIC TO HUMAN.

ARSENIC IS LISTED AS A CARCINOGEN (PER MSDS).

Effects of Overexposure:ACID MISTS MAY CAUSE SEVERE RESPIRATORY

IRRITATION. LEAD DUSTS OR FUMES IRRITATES LUNGS. ORALLY, ACID CAUSE

SEVERE IRRITATION OF GI TRACT. LEAD CAUSES ABDOMINAL PAIN, NAUSEA,

VOMITING, SEVERE CRAMPING . MAY CAUSE SEVERE IRRITATION OF EYES AND

SKIN, BURNS, ULCERATION AND BLINDNESS.

Med

ical Cond Aggravated by Exposure:SULFURIC ACID MIST MAY CAUSE LUNG

DAMAGE AND AGGRAVATE PULMONARY CONDITIONS. MAY AGGRAVATE SKIN

DISEASES SUCH AS ECZEMA AND CONTACT DERMATITIS. LEAD AGGRAVATES

KIDNEY, LIVER & NEUROLOGIC DISEASES.

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First Aid Measures
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First Aid:OBTAIN MEDICAL ATTENTION IN ALL CASES OF

EXPOSURE.EYES/SKIN:IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15

MINUTES.KEEP EYELIDS OPEN.INHALED:MOVE TO FRESH AIR.PROVIDE

CPR/OXYGEN IF NEEDED.ORAL:DO NOT INDUCE VOMITING.IF

CONSCIOUS,DRINK MILK/WATER.CONSULT PHYSICIAN.

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Fire Fighting Measures
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Flash Point:NON-FLAMMABLE

Lower Limits:4.1 H2 GAS

Upper Limits:74.2

Extinguishing Media:HALOGEN, FOAM, CARBON DIOXIDE OR DRY CHEMICAL.

WATER APPLIED TO ELECTROLYTE GENERATES HEAT AND CAUSES IT TO

SPATTER.

Fire Fighting Procedures:IF BATTERIES ARE ON CHARGE, SHUT OFF POWDER.

USE POSITIVE PRESSURE, SELF-CONTAINED B

REATHING APPARATUS. WEAR
ACID-RESISTANT CLOTHING.

Unusual Fire/Explosion Hazard:CORROSIVE ACID MIST AND/OR VAPORS ARE
FORMED. HIGHLY FLAMMABLE HYDROGEN GAS IS GENERATED DURING CHARGING
AND OPERATION OF BATTERIES. KEEP SPARKS/FLAME AWAY.

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

Spill Release Procedures:AVOID CONTACT 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 RESISTANT GLOVES AND OTHER PROTECTIVE
CLOTHING.

Neutralizing Agent:SODIUM BICARBONATE SOLUTION (1 LB TO 1 GAL
WATER)-LIME OR SODA ASH

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

Handling and Storage Precautions:STORAGE-STORE IN COOL DRY WELL
VENTILATED AREAS,AWAY FROM FIRE,SPARKS & HEAT.

Other Precautions:POISON-CAUSES SEVERE BURNS.DANGER-CONTAINS SULFURIC
ACID.STORE BATTERIES UNDER ROOF.STORE AWAY
FROM INCOMPATIBLE
MATERIALS,IN AREAS WITH ADEQUATE WATER SUPPLY AND SPILL
CONTROL.AVOID DAMAGE TO CONTAINERS.AVOID CONTACT WITH EYES AND
SKIN.

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

Respiratory Protection:NOT REQUIRED UNDER NORMAL USE. USE
NIOSH-APPROVED ACID-MIST FILTER RESPIRATOR IF 1 MG/M3 TWA IS
EXCEEDED (ACID).

Ventilation:ADEQUATE GENERAL VENTILATION

Protective Gloves:RUBBER

Eye Protection:SPLASH-PROOF CHEMICAL GOGGLES

Other Protective Eq

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

Work Hygienic Practices:REMOVE METALLIC JEWELRY-SHOCK POTENTIAL. WASH
THOROUGHLY AFTER HANDLING.

Supplemental Safety and Health

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

HCC:C1

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

Vapor Pres:10

Vapor Density:> 1

Spec Gravity:1.230 TO 1.350

pH:1

Evaporation Rate & Reference: