

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 =====

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.

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

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.

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

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 W
ITH SAWDUST OR OTHER ABSORBING
MATERIAL. WEAR ACID R ESISTANT 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 CONTAIN ERS.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: