

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

=== Contractor Identification ===

Company Name:BATTERY OUTLET INC

Addr

ess: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 Limits:NONE SPECIFIED

OSHA PEL:0.05 MG/M3;1910.1025

ACGIH TLV:0.15 M

G/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

===== 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

Explanatio

n 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.

Medical Cond Aggravated by Exposure:SULFURIC ACID MIST MAY CAUSE LU

NG

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 IN DUCE VOMITING.IF

CONSCIO

US,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 BREATHING APPARATUS. WEAR

ACID-RESISTANT CLOTHING.

Unusual Fi

re/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 Equipment: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: