

EXIDE CORP -- LEAD-ACID BATTERY -- 6140-01-290-4732

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

Product ID:LEAD-ACID BATTERY

MSDS Date:07/01/1991

FSC:6140

NIIN:01-290-4732

MSDS Number: BPVSB

=== Responsible Party ===

Company Name:EXIDE CORP

Address:645 PENN ST

City:READING

State:PA

ZIP:19612-4205

Country:US

Info Phone Num:215-378-0757

Emergency Phone Num:215-378-0757(800-424-9300 CHEMTREC)

CAGE:20038

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Contractor Identification ===

Company Name:BATTERY OUTLET OF HAMPTON INC

Address:2815 GEORGE WASHINGTON HWY

Box:City:TABB

State:VA

ZIP:23602

Country:US

Phone:804-867-8280

CAGE:0FTM0

Company Name:CHICAGO INDUSTRIAL TRADING CO

Address:1901 LANDMEIER RD

Box:City:ELK GROVE VILLAGE

State:IL

ZIP:60007

Country:US

Phone:708-981-0090

CAGE:0K4U5

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

===== Compos

ition/Information on Ingredients =====

Ingred Name:LEAD (SARA III)

CAS:7439-92-1

RTECS #:OF7525000

Fraction by Wt: 60%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:0.05 MG/M3;1910.1025

ACGIH TLV:0.15 MG/M3;DUST 9293

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 RECOMMENDED

OSHA PEL:0.5 MG/M3

ACGIH TLV:0.5 MG SB/M3; 9293

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 RECOMMENDED

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 RECOMMENDED

Ingred Name:TIN

CAS:7440-31-5

RTECS #:XP7320000

Fraction by Wt: 0.2%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:2 MG/M3

ACGIH TLV:2 MG/M3; 9293

Ingred Name:SULFURIC ACID (SARA III)

CAS:7664-93-9

RTECS #:WS5

600000
Fraction by Wt: 10-30%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3; 9293
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:POLYPROPYLENE
CAS:9003-07-0
RTECS #:TR5000000
Fraction by Wt: 5-10%
Other REC Limits:NONE RECOMMENDED

Ingred Name:POLYSTYRENE
CAS:9003-53-6
RTECS #:WL6475000
Fraction by Wt: 5-10%
Other REC Limits:NONE RECOMMENDED

Ingred Name:STYRENE ACRYLONITRILE
CAS:9003-54-7
Fraction by Wt: 5-10%
Other REC Limits:NONE RECOMMENDED

Ingred Name:ACRYLONITRILE BUTADIENE STYRENE
CAS:9003-56-9
Fraction by Wt: 5-10%
Other REC Limits:NONE RECOMMENDED

Ingred Name:STYRENE POLYMER WITH 1,3-BUTADIENE
CAS:9003-55-8
RTECS #:WL6478000
Fraction by Wt: 5-10%
Other REC Limits:NONE RECOMMENDED

Ingred Name:POLYVINYL CHLORIDE RESIN
CAS:9002-86-2
Fraction by Wt: 5-10%
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:LD50 (ORAL RAT) IS 2140 MG/KG (H2SO4)
Routes of Entry: Inhalation:YES S

kin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE: MAY CAUSE IRRITATION OF RESPIRATORY TRACT, EYES, SKIN OR GI TRACT. MAY CAUSE BURNS OF SKIN, EYES, OR GI TRACT. MAY CAUSE CORNEAL DAMAGE OR BLINDNESS. CHRONIC: TOOTH EROSION, INFLAMMATION OF NOS E, THROAT AND BRONCHIAL TUBES.

Explanation of Carcinogenicity:THE ELECTROLYTE IS NOT LISTED BY IARC, NTP, OR OSHA AS A CARCINOGEN.

Effects of Overexposure:INHALATION: BURNING SENSATION IN NOSE, THROAT

AND LUNGS, COUGHING, WHEEZING, SHORTNESS OF BREATH. EYES: REDNESS, TEARING, BLURRED VISION, BURNS, SEVERE PAIN. SKIN: SEVERE PAIN, BURNS, REDNESS, RASH, I TCHING. INGESTION: BURNS OF MOUTH, THROAT, AND ESOPHAGUS, SEVERE STOMACH PAIN, NAUSEA, VOMITING.

Medical Cond Aggravated by Exposure:PERSONS WITH A HISTORY OF AILMENTS OR WITH A PRE-EXISTING DISEASE INVOLVING THE RESPIRATORY TRACT OR TEETH MAY BE AT INCREASED RISK FROM EXPOSURE.

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

First Aid:INHALATION:REMOVE TO FRESH AIR. RESUSCITATE IF NOT BREATHING. GET MEDICAL ATTENTION. EYES:IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15 MINUTES HOLDING EYELIDS OPEN. GET PROMPT MEDICAL ATTENTION. SKIN :REMOVE CONTAMINATED CLOTHING. WASH WITHPLENTY OF WATER FOR 15 MINUTES. GET MEDICAL ADVICE. INGESTION:DO NOT INDUCE VOMITING. GIVE NOTHING BY MOUTH IF UNCONSCIOUS. GET IMMEDIATE MEDICAL ATTENTION.

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

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

Fire Fighting Procedures:USE OF WATER IN EXTINGUISHING BURNING BATTERIES MAY CAUSE SPATTERING DUE TO THE PRESENCE OF MOLTEN LEAD. WEAR SCBA AND FULL PROTECTIVE GEAR.

Unusual Fire/Explosion Hazard:AFTER ELECTROLYTE IS ADDED AND BATTERY IS BEING CHARGED, HYDROGEN GAS IS PRODUCED. BATTERY MAY EXPLODE IF HYDROGEN GAS TRAPPED INSIDE THE CASE SHOULD IGNITE.

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

Spill Release Procedures:SHOULD A BATTERY BREAK OPEN, ISOLATE AREA. ELECTROLYTE SHOULD BE ABSORBED WITH A NON-ORGANIC TYPE ABSORBENT SUCH AS DRY SAND OR EARTH. AVOID DILUTION WITH WATER. LEAD SPILLED FROM THE BATTERY SHOULD B E VACUUMED, DO NOT SWEEP OR USE COMPRESSED AIR.

Neutralizing Agent:USE SODA ASH OR BAKING SODA TO NEUTRALIZE THE ELECTROLYTE.

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

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Handling and Storage Precautions:AVOID THE USE OF UNINSULATED TOOLS. IF THEY ARE REQUIRED, TAKE CARE NOT TO ELECTRICALLY SHORT THE TERMINALS. REMOVE METAL JEWELRY BEFORE SERVICING.

Other Precautions:UNDER NORMAL CONDITIONS OF USE, EXPOSURE TO LEAD OR LEAD CONTAINING COMPOUNDS DOES NOT OCCUR. SHOULD A BATTERY BREAK OPEN AND A LEAD SPILL OCCUR, PRECAUTIONS SHOULD BE TAKEN TO PREVENT LEAD DUST FROM BECOMING AIR BORNE.

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

Respiratory Protection:UNDER NORMAL CONDITIONS OF USE, RESPIRATORY PROTECTION IS NOT REQUIRED. HOWEVER, IF CONDITIONS ARISE THAT REQUIRE THEIR USE, USE ONLY NIOSH/MSHA RESPIRATORS APPROVED FOR DUST, FUME AND MIST.

Ventilation:BATTERY CHARGING AREAS MUST BE ADEQUATELY VENTILATED TO PREVENT HAZARDOUS CONCENTRATIONS OF FLAMMABLE GAS OR ACID MIST.

Protective Gloves:RUBBER GLOVES APPROVED FOR SULFURIC ACID

Eye Protection:CHEMICAL SPLASH GOGGLES AND FACE SHIELD

Other

Protective Equipment:EYE WASH STATION AND SAFETY SHOWER. INDUSTRIAL-TYPE IMPERVIOUS WORK CLOTHING, BOOTS AND APRON AS REQUIRED.

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

RQ FOR CERCLA AND SARA III IS 1000 LBS (ELECTROLYTE). MSDS WRITTEN FOR ELECTROLYTE- IT IS THE PRIMARY HAZARD DURING NORMAL USE AND HANDLING. INGREDIENTS FROM A LAUNDRY LIST FROM MFR:

POLYPROPYLENE

IS MOST LIKELY INGREDIENT FOR CASE. INGREDIENT 1-5 IS ELECTRODE; 6 IS ELECTROLYTE; REST ARE FOR CASE.

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

HCC:C1

Boiling Pt:=95.C, 203.F

Vapor Pres:10 MM HG

Vapor Density:>1(AIR=1)

Spec Gravity:1.23-1.35

pH:1

Evaporation Rate & Reference: