

EXIDE CORP -- NP4-6 LEAD-ACID BATTERY -- 6140-01-293-7749

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

Product ID:NP4-6 LEAD-ACID BATTERY

MSDS Date:06/01/1996

FSC:6140

NIIN:01-293-7749

MSDS Number: BZPMB

=== Responsible Party ===

Company Name:EXIDE CORP

Address:645 PENN STREET

City:READING (FORMALLY IN HORSHAM)

State:PA

ZIP:19612-4205

Country:US

Info Phone Num:610-378-0550/ FAX -0616

Emergency Phone Num:6

10-378-0500/800-424-9300(CHEMTREC)

CAGE:20038

=== Contractor Identification ===

Company Name:BATTERY ASSEMBLERS INC

Address:211-4 KNICKERBOCKER AVE

Box:City:BOHEMIA

State:NY

ZIP:11716

Country:US

Phone:407-323-3390/EM:516-567-8855/8278

CAGE:0B0Y5

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 313) (CERCLA)

CAS:7

439-92-1
RTECS #:OF7525000
Fraction by Wt: 60%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:SEE 1910.1025
ACGIH TLV:0.05MG/M3, A3; 9596
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:ANTIMONY (SARA 313) (CERCLA)
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; 9596
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:ARSENIC (SARA 313) (CERCLA)
CAS:7440-38-2
RTECS #:CG0525000
Fraction by Wt: 0.2%
Other REC Limits:NO
NE RECOMMENDED
OSHA PEL:SEE 1910.1018
ACGIH TLV:0.01 MG/M3, A1; 9596
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; 9596

Ingred Name:SULFURIC ACID (SARA 302/313) (CERCLA) (ELECTROLYTE)
CAS:7664-93-9
RTECS #:WS5600000
Fraction by Wt: 10-30%
Other REC Limits:

NONE RECOMMENDED
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3/3 STEL; 9596
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
RTECS #:AT6978000
Fraction by Wt: 5-10%
Other REC Limits:NONE RECOMMENDED

Ingred Name:ACRYLONITRILE-BUTADIENE-STYRENE TERPOLYMER
CAS:9003-56-9
RTECS #:AT6970000
Fraction by Wt: 5-10%
Other REC Limits:NONE RECOMMENDED

Ingred Name:BUTADIENE-STYRENE POLYMER (RUBBER)
CAS:9003-55-8
RTECS #:WL6478000
Fraction by Wt: 5-10%
Other REC Limits:NONE RECOMMENDED

Ingred Name:POLYVINYL CHLORIDE
CAS:9002-86-2
RTECS #:KV0350000
Fraction by Wt: 5-10%
Other REC Limits:NONE RECOMMENDED

Ingred Name:POLYCARBONATE
Fraction by Wt: 5-10%
Other REC Limits:NONE RECOMMENDED

Ingred Name:HARD RUBBER
Fraction by Wt: 5-10%
Other REC Li

imits:NONE RECOMMENDED

Ingred Name:POLYETHYLENE

CAS:9002-88-4

RTECS #:TQ3325000

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 Skin: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. LEAD DUST
MAY CAUSE IRRITATION OF UPPER RES PIRATORY TRACT. CHRONIC: TOOTH
EROSION,INFLAMMATION OF NOSE, 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.

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

First Aid:INHALATION:REMOVE TO FRESH AIR. RESUSCITATE IF NOT BREATHING.
GET MEDI

CAL ATTENTION. EYES:IMMEDIATELY FLUSH WITH PLENTY OF WATER
FOR 15 MINUTES HOLDING EYELIDS OPEN. GET PROMPT MEDICAL ATTENTION.
SKIN :REMOVE CONTAMINATED CLOTHING. WASH WITH PLENTY OF WATER FOR
15 MINUTES. GET MEDICAL ADVICE. INGESTION:DO NOT INDUCE VOMITING.
GIVE NOTHING BY MOUTH IF UNCONSCIOUS. GET IMMEDIATE MEDICAL
ATTENTION.

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

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

ng 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 =====

Handling and Storage Precautions:STORE & HANDLE IN A WELL-VENTILATED
AREA. HANDLE BATTERIES CAUTIOUSLY TO AVOID SPILLS. MAKE
CERTAIN VET
CAPS ARE ON SECURELY.

Other Precautions:AVOID CONTACT WITH INTERNAL COMPONENTS. WEAR
PROTECTIVE CLOTHING WHEN FILLING OR HANDLING BATTERIES.

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

Respiratory Protection:UNDER NORMAL CONDITIONS OF USE, RESPIRATORY
PROTECTION IS NOT REQUIRED. WHEN CONCENTRATIONS OF SULFURIC ACID
MIST EXCEED PEL, USE NIOSH OR MSHA-APPROVED RESPIRATORY PROTECTION.

Ventilation:ACID-RESISTANT MECHANICAL VENTILATION.

Protective

Gloves:RUBBER OR ACID-RESISTANT PLASTIC.

Eye Protection:CHEMICAL SPLASH GOGGLES OR 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 PRIMARILY
WRITTEN FOR ELECT

ROLYE-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:Z4

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

Vapor Pres:10

Vapor Density:>1

Spec Gravity:1.22-1.35

Evaporation Rate & Reference: