

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 Nu  
m:610-378-0500/800-424-9300(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)  
CA

S:7439-92-1  
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  
:NONE 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 Limi

ts: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-ST  
YRENE 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

Limits: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 BUR  
NS 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, SEVE  
RE 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 M  
EDICAL 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 Fig

Handling 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 BE 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 VENTILATION 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. LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE.  
Supplemental Safety and Health  
RQ FOR CERCLA AND SARA III IS 1000 LBS (ELECTROLYTE). MSDS PRIMARILY  
WRITTEN FOR EL

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:Z4

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

Vapor Pres:10

Vapor Density:>1

Spec Gravity:1.22-1.35

Evaporation Rate & Reference: