

EXIDE CORP -- LEAD-ACID BATTERY (ELECTRIC STORAGE BATTERY) -- 6140-01-314-8414

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

Product ID:LEAD-ACID BATTERY (ELECTRIC STORAGE BATTERY)

MSDS Date:02/01/1996

FSC:6140

NIIN:01-314-8414

Status Code:A

MSDS Number: CJCXJ

=== Responsible Party ===

Company Name:EXIDE CORP

Address:645 PENN STREET

Box:14205

City:READING (FORMALLY IN HORSHAM)

State:PA

ZIP:19612-4205

Count

ry:US

Info Phone Num:215-378-0757/ 610-378-0500

Emergency Phone Num:(800)424-9300

Chemtrec Ind/Phone:(800)424-9300

CAGE:20038

=== Contractor Identification ===

Company Name:BATTERY OUTLET INC

Address:1608 CAMPOSTELLA RD

Box:City:CHESAPEAKE

State:VA

ZIP:23324

Country:US

Phone:757-545-4442

Contract Num:SP0430-99-M-F351

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/I

Information on Ingredients =====

Ingred Name:LEAD  
CAS:7439-92-1  
RTECS #:OF7525000  
= Wt:53.  
ACGIH TLV:0.15 MG/M3  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:ANTIMONY  
CAS:7440-36-0  
RTECS #:CC4025000  
= Wt:.2  
OSHA PEL:0.5 MG/M3  
ACGIH TLV:0.5 MG/M3  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:ARSENIC  
CAS:7440-38-2  
RTECS #:CG0525000  
= Wt:0.  
ACGIH TLV:0.01 MG/M3  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:CALCIUM  
CAS:7440-70-2  
RTECS #:EV8040000  
= Wt:.02

Ingred Name:TIN  
CAS:7440-31-5  
RTECS #:XP7320000  
= Wt:.6  
ACGIH TLV:2 MG/M3

Ingred Name:POLYPROPYLENE  
CAS:9003-07-0  
RTECS #:UD1842000  
Minumum % Wt:5.  
Maxumum % Wt:6.

Ingred Name:SULFURIC ACID  
CAS:7664-93-9  
RTECS #:WS5600000  
Minumum % Wt:30.  
Maxumum % Wt:40.  
OSHA PEL:1 MG/M3  
ACGIH TLV:1 MG/M3  
ACGIH STEL:3 MG/M3  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

tion:YES

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

Health Hazards Acute and Chronic:ELECTROLYTE CAN CAUSE SEVERE

RESPIRATORY IRRITATION IF INHALED; MAY CAUSE SEVERE IRRITATION TO MOUTH/THROAT/ESOPHAGUS/STOMACH ON INGESTION;CAUSES SEVERE IRRITATION/BURNS/ULCERATION ON CONTACT WITH SKIN;CAUSE SEVERE IRRITATION/BURNS/CORNEA DAMAGE/BLINDNESS ON EYE CONTACT.LEAD CAN CAUSE IRRITATION OF UPPER RESPIRATORY TRACT/LUNGS IF DUST INHALED, INGESTION MAY CAUSE ABDOMINAL

PAIN, NAUSEA, VOMITING, DIARRHEA,

SEVERE CRAMPING, SYSTEMIC POISONING;EYE CONTACT MAY CAUSE IRRITATION. CHRONIC:ELECTROLYTE MAY CAUSE SEVERE SKIN IRRITATION, CORNEA DAMAGE/BLINDNESS, UPPER RESPIRATORY IRRITATION. LEAD MAY CAUSE ANEMIA, NEUROPATHY, KIDNEY DAMAGE.

Explanation of Carcinogenicity:IARC HAS CLASSIFIED "STRONG INORGANIC ACID MIST CONTAINING SULFURIC ACID" AS A CATEGORY 1 CARCINOGEN. THIS CLASSIFICATION DOES NOT APPLY TO ELECTROLYTE IN BATTERIES.

LEAD IS L

ISTED AS A 2B CARCINOGEN; PROOF OF CARCINOGENICITY IN

HUMANS IS LACKING. ARSENIC IS LISTED BY NTP, IARC, OSHA AND NIOSH AS A CARCINOGEN ONLY AFTER PROLONGED EXPOSURE AT HIGH LEVELS.

Effects of Overexposure:ACUTE-ELECTROLYTE: SEVERE SKIN IRRITATION, DAMAGE TO CORNEA MAY CAUSE BLINDNESS, UPPER RESPIRATORY IRRITATION.

LEAD: HEADACHE, FATIGUE, ABDOMINAL PAIN, LOSS OF APPETITE, MUSCULAR ACHES & WEAKNESS, SLEEP DISTURBANCES & IRRITABILITY.

CHRONIC-ELECTROLYTE: POSSIBLE EROSION

OF TOOTH ENAMEL, INFLAMMATION

OF NOSE/THROAT/BRONCHIAL TUBES. LEAD: ANEMIA, WRIST DROP, KIDNEY DAMAGE, REPRODUCTIVE CHANGES IN BOTH SEXES.

Medical Conditions Aggravated by Exposure:PULMONARY CONDITIONS, SKIN DISEASES SUCH AS ECZEMA/CONTACT DERMATITIS, KIDNEY, LIVER, NEUROLOGIC DISEASES.

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

First Aid:INHALATION: ELECTROLYTE-REMOVE TO FRESH AIR IMMEDIATELY. GIVE OXYGEN IF BREATHING DIFFICULT. LEAD-REMOVE FROM EXPOSURE.

GARGLE,

WASH NOSE & LIPS IF CONSCIOUS. CONSULT PHYSICIAN. INGESTED:

ELECTROLYTE-IF CONSCIOUS, GIVE LARGE QUANTITIES OF WATER. DO NOT INDUCE VOMITING! CONSULT PHYSICIAN. LEAD-CONSULT PHYSICIAN

IMMEDIATELY. SKIN: ELECTROLYTE-FLUSH WITH LARGE AMOUNTS OF WATER

FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHES, INCLUDING

SHOES. LEAD-WASH IMMEDIATELY WITH SOAP & WATER. EYES: ELECTROLYTE &

LEAD-FLUSH IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES

ES. CONSULT PHYSICIAN IMMEDIATELY.

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

Lower Limits:4.1 (H<sub>2</sub>)

Upper Limits:74.2 (H<sub>2</sub>)

Extinguishing Media:CARBON DIOXIDE (CO<sub>2</sub>), FOAM, DRY CHEMICAL.

Fire Fighting Procedures:USE POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS. ACID-RESISTENT CLOTHING, GLOVES, FACE & EYE PROTECTION SHOULD BE WORN. SHUT OFF POWER/CHARGER TO BATTERIES IF APPLICABLE.

Unusual Fire/Explosion Hazard:IN OPERATION BATTERIES GENERATE & RELEASE

FLAMMABLE HYDROGEN GAS. THIS GAS, IF IGNITED, MAY CAUSE A BATTERY EXPLOSION. CAREFULLY FOLLOW MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION & SERVICE.

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

Spill Release Procedures:STOP FLOW OF MATERIAL.CONTAIN ABSORB WITH DRY SAND/EARTH/VERMICULITE.DO NOT USE COMBUSTIBLE MATERIALS.CAREFULLY NEUTRALIZE SPILLED ELECTROLYTE.WEAR ACID-RESISTANT CLOTHING,BOOTS,GLOVES & FACE SHIELD.DO NOT DISCHARGE UNEUTRALIZED

ACID TO SEWER.NEUTRALIZED ACID MUST BE MANAGED IN ACCORDANCE WITH APPROVED LOCAL, STATE & FEDERAL REQUIREMENTS. CONSULT STATE ENVIRONMENTAL AGENCY AND/OR FEDERAL EPA.

Neutralizing Agent:SODA ASH, SODIUM BICARBONATE, LIME ETC.

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

Handling and Storage Precautions:STORE IN A COOL, DRY, WELL-VENTILATED AREA AWAY FROM INCOMPATIBLE MATERIALS AND ACTIVITIES WHICH MAY CREATE FLAMES, SPARKS OR HEAT.STORE ON SMOOTH, IMPER

VIOUS SURFACES

WHICH ARE PROVIDED WITH MEASURES FOR LIQUID CONTAINMENT IN THE EVENT OF ELECTROLYTE SPILLS.

Other Precautions:KEEP AWAY FROM METALLIC OBJECTS WHICH MAY CREATE A SHORT-CIRCUIT. HANDLE CAREFULLY AND AVOID TIPPING, WHICH MAY ALLOW ELECTROLYTE LEAKAGE.

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

Respiratory Protection:NONE REQUIRED UNDER NORMAL CONDITIONS. WHEN CONCENTRATIONS OF SULFURIC ACID MIST ARE KNOWN TO EXCEED PEL, USE NIOSH OR

MSHA-APPROVED RESPIRATORY PROTECTION.

Ventilation:STORE & HANDLE IN A WELL-VENTILATED AREA. IF MECHANICAL VENTILATION IS USED, COMPONENTS MUST BE ACID-RESISTANT.

Protective Gloves:RUBBER OR PLASTIC ACID-RESISTANT GLOVES WITH ELBOW-LENGTH GAUNTLETS.

Eye Protection:CHEMICALS GOGGLES OR FACE SHIELD.

Other Protective Equipment:ACID-RESISANT APRON. UNDER SEVERE EXPOSSURE OR EMERGENCY CONDITIONS, WEAR ACID RESISTANT CLOTHING, BOOTS, GLOVES. EYE WASH STATIONS/SHOWERS SHOULD BE PROVIDED

Work Hygienic Practices:HANDLE BATTERIES CAUTIOUSLY, DO NOT TIP TO AVOID SPILLS. MAKE CERTAIN VENT CAPS ARE IN PLACE. AVOID BODY CONTACT WITH INTERNAL COMPONENTS.

Supplemental Safety and Health

WEAR PROTECTIVE CLOTHING, EYE & FACE PROTECTION, WHEN FILLING OR HANDLING BATTERIES.

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

HCC:C1

Boiling Pt: