View NSN Online: https://aerobasegroup.kr/nsn/6140-01-355-5089

EXIDE CORP -- LEAD-ACID BATTERY -- 6140-01-355-5089

Product ID:LEAD-ACID BATTERY

MSDS Date:02/01/1996

FSC:6140

NIIN:01-355-5089

Status Code:A

MSDS Number: CKLHD
=== Responsible Party ===
Company Name:EXIDE CORP
Address:645 PENN STREET

Box:14205 City:READING

State:PA

ZIP:19612-4205

Country:US

Info Phone Num:610-378-0500/0798 Emergency Phone Num:610-378-0500

Prepar

er's Name: ENVIRONMENTAL RESOURCES

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-AJ11

CAGE:0FGN2

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-F912

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 313) (CERCLA)

CAS:7439-92-1

RTECS #:OF7525000

= Wt:53.

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

= Wt:.2

Other REC Limits: NONE RECOMMENDED

OSHA PEL:0.5 MG/M3

AC

GIH 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: 0.003%

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

= Wt:.02

Other REC Limits: NONE RECOMMENDED

Ingred Name:TIN CAS:7440-31-5

RTECS #:XP7320000

= Wt:.06

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 Minumum % Wt:30. Maxumum % Wt:40.

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 (CASE)

CAS:9003-07-0

RTECS #:TR5000000

Minumum % Wt:5.

Maxumum % Wt:6.

Other REC Limits: NONE RECOMMENDED

Ingred Name: SILICA, CRYSTALLINE - FUSED (GEL CELL BATTERIES ONLY)

CAS:60676-86-0

RTECS

#:VV7328000

Minumum % Wt:3.

Maxumum % Wt:5.

Other REC Limits: NONE RECOMMENDED

OSHA PEL:SEE TABLE Z-3

ACGIH TLV:0.1 MG/M3 RDUST;9596

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

LD50 LC50 Mixture:TLV FOR SULFURIC ACID IS 1 MG/M3. Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO

Health Hazards Acute and Chronic:ELECTROLYTE (SULFURIC ACID & WATER) IS HARMFUL BY ALL ENTRY ROUTES. LEAD HAZARDOUS EXPOSURE OCC URS ONLY

WHEN FUMES, DUST OR VAPOR ARE CREATED: INHALATION: ELECTROLYTE: SEVERE RESPIRATORY IRRITATION, L EAD: IRRITATION OF UPPER RESPIRATORY TRACT & LUNGS. INGESTION: ELECTROLYTE: SEVERE IRRITATION OF MOUTH, THROAT, ESOPHAGUS & STOMACH. LEAD: ABDOMINAL PAIN, NAUSEA, VOMITING, DIARRHEA, SEVERE CRAMPING, SYSTEMIC TOXICITY. SKIN: ELECTROLYTE: SEVERE IRRITATION, BURNS & ULCERATION. LEAD: NOT ABSORBED THROUGH SKIN. EYES: ELECTROLYTE: SEVERE IRRITATION, BURNS, CORNEA

- DAMAGE, BLINDNESS. LEAD: MAY CAUSE EYE IRRITATION.
- Explanation of Carcinogenicity: "STRONG INORGANIC ACID MISTS CONTAINING SULFURIC ACD": IARC HAS CLASSIFIED AS A CATAGORY I CARCINOGEN BUT DOES NOT APPLY TO SULFURIC ACID IN STATIC LIQUID STATE OR TO BATTERY ELECTROLYTE. LEAD COMPOUN DS: LISTED AS 2B CARCINOGEN BY IARC. ARSENIC LISTED BY NTP, IAC, OSHA & NIOSH AS A POTENTIAL CARCINOGEN.
- Effects of Overexposure:ELECTROLYTE: ACUTE: SEVERE SKIN IRRITATION, DAMAGE TO CORNE
- A MAY CAUSE BLINDNESS, UPPER RESPIRATORY IRRITATION.
 CHRONIC: POSSIBLE TOOTH EROSION, INFLAMMATION OF NOSE, THROAT &
 BRONCHIAL TUBES. LEAD: A CUTE-HEADACHE, FATIGUE, ABDOMINAL
 PAIN,LOSS OF APPETITE, MUSCULAR ACHES AND WEAKNESS, SLEEP
 DISTURBANCES AND IRRATABILITY. CHRONIC: ANEMIA,
 NEUROPATHY-PARTICULARLY OF MORTOR NERVES (EG WRIST DROP), KI DNEY
 DAMAGE, REPRODUCTIVE CHANGES IN BOTH MALES & FEMALES.
- Medical Cond Aggravated by Exposure:INORGANIC LEAD AND ITS COMPOUNDS C
- AN AGGRAVATE CHRONIC FORMS OF KIDNEY, LIVER AND NEUROLOGIC DISEASES. SULFURIC ACID MISTS CAN AGGRAVATE SKIN DISEASES SUCH AS ECZEMA, DERMATITIS AND LUNG DISEASES.

First Aid:INHALED-ELECTROLYTE: REMOVE TO FRESH AIR IMMEDIATELY. IF BREATHING DIFFICULT, GIVE OXYGEN. LEAD: REMOVE FROM EXPOSURE, GARGLE, WASH NOSE & LIPS. CONSULT PHYSICIAN. INGESTED-ELECTROLYTE: GIVE LARGE QUA NTITIES OF WATER. DO NOT INDUCE VOM ITING! CONSULT

PHYSICIAN. LEAD: CONSULT PHYSICIAN IMMEDIATELY. SKIN-ELECTROLYTE: FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTH ES COMPLETELY, INCLUDING SHOES. LEAD: WASH IMMEDIATELY WITH SOAP & WATER. EYES-ELECTROLYTE: FLUSH IMMEDIATELY WITH WATER FOR AT LEAST 15 MINUTES. CONSULT PHYSICIAN IMMEDIATELY.

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

Lower Limits: 4.1 HYDROGEN

Upper Limits:74.2

Extinguishing Media:CA

- RBON DIOXIDE (CO2), FOAM, DRY CHEMICAL.
- Fire Fighting Procedures:USE SELF-CONTAINED BREATHING APPARATUS & ACID-RESISTANT CLOTHING, GLOVES, FACE & EYE PROTECTION. BEWARE OF ACID SPLATTERING. IF BATTERIES ARE ON CHARGE, SHUT OFF POWER TO CHARGING EQUIPMENT.
- Unusual Fire/Explosion Hazard:DURING OPERATIONS, BATTERIES GENERATE & RELEASE FLAMMABLE HYDROGEN GAS. THIS GAS, IF IGNITED, MAY CAUSE BATTERY EXPLOSION WITH CASING FRAGMENTS & CORROSIVE LIQUID ELECTROLYTE. CAREFULLY FOLL
- OW MANUFAC TURER'S INSTRUCTIONS FOR INSTALLATION & SERVICE.

	Accidental Release Measures	=======================================
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- Spill Release Procedures:STOP FLOW OF MATERIAL, CONTAIN/ABSORB WITH DRY SAND, EARTH, VERMICULITE. IF POSSIBLE, CAREFULLY NEUTRALIZE SPILLED ELECTROLYTE WITH SODA ASH, SODIUM BICARBONATE, LIME, ETC. WEAR ACID-RESISTANT CLOTHES, BOOTS, GLOVES AND FACE SHIELD.DO NOT ALLOW DISCHARGE OF UN-NEUTRALIZED ACID TO SEWER. NEUTRALIZED ACID MUST BE MANAGED
- IN ACCORDANCE WITH APPROVED LOCAL, STATE AND FEDERAL REQUIREMENTS.
- Neutralizing Agent: SODA ASH, LIME, SODIUM BICARBONATE.

======================================	Handling and Storage	=======================================
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- Handling and Storage Precautions:STORE BATTERIES UNDER ROOF IN A COOL, DRY, WELL-VENTILATED AREAS SEPARATED FROM INCOMPATIBLE MATERIALS AND FROM SOURCES OF IGNITION. STORE ON SMOOTH, IMPERVIOUS SURFACES WHICH ARE PROVIDED WITH LIQUID CONTAINMENT. KEEP AWAY FROM METALLIC OBJECTS WHICH C
- OULD BRIDGE THE TERMINALS.
- Other Precautions:HANDLE CAREFULLY & AVOID TIPPING. PROHIBIT SMOKING AND AVOID CREATING FLAMES & SPARKS NEARBY TO CHARGING OPERATIONS. CHARGING SPACE SHOULD BE VENTILATED. KEEP BATTERY VENT CAPS IN PLACE. WEAR FACE & E YE PROTECTION WHEN NEAR BATTERIES BEING CHARGED.

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Respiratory Protection: NONE REQUIRED UNDER NORMAL CONDITIONS. WHEN CONCENTRATIONS OF SULURIC ACID MIST ARE KNOWN TO

EXCEED PEL, USE

NIOSH OR MSHA APPROVED RESPIRATORY PROTECTION.

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

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

Eye Protection: CHEMICAL GOGGLES OR FACE SHIELD.

Other Protective Equipment:ACID-RESISTANT APRON. UNDER SEVERE EXPOSURE OR EMERGENCY CONDITIONS, WEAR ACID-RESISTANT CLOTHING, GLOVES AND BOOTS.

Work Hygienic

Practices:HANDLE BATTERIES CAUTIOUSLY, DO NOT TIP TO AVOID SPILLS. AVOID BODILY CONTACT WITH INTERNAL COMPONENTS. WEAR PROTECTIVE CLOTHING, EYE & FACE PROTECTION, WHEN FILLING OR HANDLING BATTERIES.

Supplemental Safety and Health

NONE SPECIFIED BY MANUFACTURER.

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

HCC:C1

Boiling Pt:=95.C, 203.F

B.P. Text:203FTO 240F(S.G. RANGE Vapor Pres:17 TO 11(FOR S.G. RANGE)

Vapor Density:>1 (AIR=1)

Spec Gravity: 1.230 TO 1.350 (H

20=1)

Viscosity: NOT SPECIFIED BY MFR. Evaporation Rate & Description Rate & Description Reference: