View NSN Online: https://aerobasegroup.de/nsn/6140-01-031-6882

EXIDE CORP -- LEAD-ACID BATTERY -- 6140-01-031-6882
========== Product Identification ==========

Product ID:LEAD-ACID BATTERY
MSDS Date:02/01/1996
FSC:6140
NIIN:01-031-6882
Status Code:A
MSDS Number: CJZXX
=== Responsible Party ===
Company Name:EXIDE CORP
Address:645 PENN STREET
Box:14205
City:READING (FORMALLY IN HORSHAM)
State:PA
ZIP:19612-4205
Country:US
Info Phone Num:610-378-0500
Emergency Phone Num:
800-424-9300(CHEMTREC)
Preparer'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:SP0430-00M-G561
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 Ingred

ients ==========

Ingred Name:LEAD (SARA 313) (CERCLA)
CAS:7439-92-1
RTECS #:OF7525000
= Wt:53.
Other REC Limits:NOT PROVIDED.
OSHA PEL:0.050 MG/M3
ACGIH TLV:0.050 MG/M3
Code:F
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:NOT PROVIDED.
OSHA PEL:0.5 MG/M3
ACGIH TLV:0.5 MG (SB)/M3
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:ARSENIC (SARA 313) (CERCLA)
CAS:7440-38-2
RTECS #:CG0525000
Fraction by W
t: 0.003%
Other REC Limits:NOT PROVIDED.
OSHA PEL:0.01 MG/M3
ACGIH TLV:0.01 MG/M3
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

Ingred Name:SULFURIC ACID (SARA 302/313) (CERCLA)
CAS:7664-93-9
RTECS #:WS5600000
Minumum % Wt:30.
Maxumum % Wt:40.
Other REC Limits:NONE RECOMMENDED
OSH

A PEL:1 MG/M3
ACGIH TLV:1 MG/M3
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:POLYPROPYLENE (CASE MATERIAL)
CAS:9003-07-0
RTECS #:TR5000000
Minumum % Wt:5.
Maxumum % Wt:6.
Other REC Limits:NONE RECOMMENDED

Ingred Name:HARD RUBBER
Fraction by Wt: UNKNOWN.
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:NOT PROVIDED.
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:YES IAR
C:YES OSHA:YES
Health Hazards Acute and Chronic:EFFECTS OF OVEREXPOSURE - ACUTE: ELECTROLYTE (WATER AND SULFURIC ACID SOLUTION): SEVERE SKIN IRRITATION, DAMAGE TO CORNEA MAY CAUSE BLINDNESS, UPPER RESPIRATORY IRRITATION. LEAD COMPOUNDS: SYMPTOMS O F TOXICITY INCLUDE HEADACHE, FATIGUE, ABDOMINAL PAIN, LOSS OF APPETITE, MUSCULAR ACHES AND WEAKNESS, SLEEP DISTURBANCES AND IRRITABILITY. EFFECTS OF OVEREXPOSURE - CHRONIC: ELECTROLYTE (WATER AND SULF URIC ACID SOLUTION):
POSSIBLE EROSION OF TOOTH ENAMEL; INFLAMMATION OF NOSE, THROAT AND BRONCHIAL TUBES. LEAD COMPOUNDS: ANEMIA, NEUROPATHY, PARTICULARLY OF THE MOTOR NERVES, WITH WRIST DROP; KIDNEY DAMAGE AND REPRODUCTIVE CHANGES.
Explanation of Carcinogenicity:LEAD COMPOUNDS: LISTED AS 2B CARCINOGEN, LIKELY IN ANIMALS AT EXTREME DOSES. PROOF OF CARCINOGENICITY IN HUMANS IS LACKING AT PRESENT. ARSENIC: LISTED BY NATIONAL TOXICOLOGY PROGRAM (NTP), INTERNATION AL AGENCY FOR RESEARCH ON

CANCER (IARC), OSHA AND NIOSH AS A CARCINOGEN ONLY AFTER PROLONGED EXPOSURE AT HIGH LEVELS.
Effects of Overexposure:INHALATION: ELECTROLYTE (WATER AND SULFURIC ACID SOLUTION): BREATHING OF SULDURIC ACID VAPORS OR MISTS MAY CAUSE SEVERE RESPIRATORY IRRITATION. LEAD COMPOUNDS: INHALATION OF LEAD DUST OR FUMES MAY CAU SE IRRITATION OF UPPER RESPIRATORY TRACT AND LUNGS. INGESTION: ELECTROLYTE MAY CAUSE SEVERE IRRITATION OF MOUTH, THROAT, ESOPHAGUS AND STOMACH. LEAD COMPOUNDS:

ABDOMINAL
PAIN, NAUSEA, VOMITING, DIARRH EA AND SEVERE CRAMPING. MAY LEAD TO SYSTEMIC TOXICITY. SKIN CONTACT: SEVERE IRRITATION, BURNS AND ULCERATION. LEAD COMPOUNDS NOT ABSORBED. EYE CONTACT: SEVERE IRRITATION, BURNS, CORNEA DAMAGE, BLINDN ESS. LEAD COMPOUNDS MAY CAUSE IRRITATION

Medical Cond Aggravated by Exposure:CONTACT OF ELECTROLYTE WITH SKIN MAY AGGRAVATE DISEASES SUCH AS ECZEMA AND DERMATITIS. MIST CAN AGGRAVATE PULMONARY CONDITION. LEAD AND ITS COMPOUNDS C
AN AGGRAVATE
KIDNEY, LIVER AND NEUROLOGIC DISEASES

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

First Aid:INHALATION: ELECTROLYTE (WATER AND SULFURIC ACID SOLUTION): REMOVE TO FRESH AIR IMMEDIATELY. IF BREATHING IS DIFFICULT, GIVE OXYGEN. LEAD: REMOVE FROM EXPOSURE, GARGLE, WASH NOSE AND LIPS; CONSULT PHY SICIAN. INGESTION: ELECTROLYTE: GIVE LARGE QUANTITIES OF WATER; DO NOT INDUCE VOMITING; CONSULT PHYSICIAN. LEAD: CONSULT PHYSICIAN IMMEDIATELY.
SKIN: ELECTROLYTE (WATER AND SULFURIC ACID SOLUTION): FL USH WITH LARGE AMOUNT OF WATER FOR AT LEAST 15 MINUTES; REMOVE CONTAMINATED CLOTHING. LEAD: WASH IMMEDIATELY WITH SOAP AND WATER. EYES: FLUSH IMMEDIATELY WITH LARGE AMOUNT OF WATER FOR AT LEAST 15 MIN UTES; CONSULT PHYSICIAN IMMEDIATELY.

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

Lower Limits:4.1;HYDROGEN
Upper Limits:74.2
Extinguishing Media:CO2, FOAM, DRY CHEMICAL.
Fire Fighting Procedures:USE
POSITIVE-PRESSURE, SELF-CONTAINED BREATHING APPARATUS. BEWARE OF ACID SPLATTER IF WATER IS USED. WEAR ACID-RESISTANT CLOTHING, GLOVES, FACE AND EYE PROTECTION. IF BATTERIES ON CHARGE, SHUT OFF PO WER TO CHARGING EQUIPMENT. STRINGS OF CONNECTED BATTERIES POSE RISK OF ELECTRIC SHOCK EVEN WHEN CHARGER IS SHUT DOWN.
Unusual Fire/Explosion Hazard:IN OPERATION, BATTERIES GENERATE AND RELEASE FLAMMABLE HYDROGEN GAS. ALWAYS ASSUME TO CONTAIN THIS GAS. IF IGNITED BY BURNING

CIGARETE, NAKED FLAME OR SPARK, MAY CAUSE
BATTERY EXPLOSION WITH DISPERSIO N OF CASING FRAGMENTS AND CORROSIVE LIQUID ELECTROLYTE. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION AND SERVICE.

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

Spill Release Procedures:STOP FLOW OF MATERIAL, CONTAIN/ABSORB SMALL SPILLS WITH DRY SAND, EARTH, VERMICULITE. DO NOT USE COMBUSTIBLE MATERIALS. CAREFULLY NEUTRALIZE ELECTROLYTE WITH SODA ASH, SODIUM BICARBONA
TE, LIME, ETC. W EAR ACID-RESISTANT CLOTHING, BOOTS, GLOVES, AND FACE SHIELD. DO NOT ALLOW DISCHARGE OF UNNEUTRALIZED ACID TO SEWER. NEUTRALIZED ACID MUST BE MANAGED IN ACCORDANCE WITH APPROVED REQUIREMENTS.
Neutralizing Agent:SODA ASH (SODIUM CARBONATE), QUICKLIME (CALCIUM OXIDE), SODIUM BICARBONATE

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

Handling and Storage Precautions:STORE BATTERIES UNDER ROOF IN COOL, DRY, WELL-VENTILATED AREAS WHICH ARE SE
PARATED FROM INCOMPATIBLE
MATERIALS AND FROM ACTIVITIES WHICH MAY CREATE FLAMES, SPARKS OR HEAT. STORE ON SMOOTH, IMPERVIOUS SURFACES WHICH ARE PROVIDED WITH MEASURES FOR LIQUID CONTAINMENT IN THE EVENT OF ELECTROLYTE SPILLS.
Other Precautions:KEEP AWAY FROM METALLIC OBJECTS WHICH COULD BRIDGE THE TERMINALS. HANDLE CAREFULLY AND AVOID TIPPING WHICH MAY ALLOW ELECTROLYTE LEAKAGE. SINGLE BATTERY POSE NO RISK OF ELECTRIC SHOCK BUT THERE MAY BE INCREASING RISK OF ELECTRIC S
HOCK FROM STRINGS OF
CONNECTED BATTERIES EXCEEDING THREE 12-VOLT UNITS .

========== 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 AND HANDLE IN WELL-VENTILATED AREA. IF MECHANICAL VENTILATION IS USED, COMPONENTS MUST BE ACID-RESISTANT.
Protective Gloves:RUBBER OR PLASTIC A

CID-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. EMERGENCY EYEWASH STATIONS AND SHOWERS SHOULD BE PROVIDED,
WITH UNLIMITED WATER.
Work Hygienic Practices:HANDLE BATTERIES CAUTIOUSLY, DO NOT TIP TO
AVOID SPILLS. MAKE SURE VENT CAPS ARE ON SECURELY. AVOID CONTACT
WITH INTERNAL COMPONEN
TS. WEAR PROTECTIVE CLOTHING, EYE AND FACE
PROTECTION WHEN FILLING.
Supplemental Safety and Health

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

HCC:Z4
NRC/State Lic Num:NOT RELEVANT.
Boiling Pt:B.P. Text:203F-240F(FOR S.G.RANG
Melt/Freeze Pt:M.P/F.P Text:NOT APPLICAPLE.
Decomp Temp:Decomp Text:NOT PROVIDED.
Vapor Pres:17-11@77F
Vapor Density:>1
Spec Gravity:1.230-1.350
pH:NOT PROVIDED.
Viscosity:NOT PROVIDED.
Evaporation Rate & Reference:=500 LBS, LEAD >=10000 L
BS. (E) SUPPLIER
NOTIFICATION: CONTAINS TOXIC CHEMICALS REPORTABLE UNDER EPCRA SECT
ION 313:PB, H2SO4,SB, AS.
Federal Regulatory Information:RCRA: SPENT LEAD-ACID BATTERIES ARE NOT
REGULATED AS HAZARDOUS WASTE WHEN RECYCLED. SPILLED SULFURIC ACID
IS A CHARACTERISTIC HAZARDOUS WASTE; EPA HAZARDOUS WASTE NUMBER
D002 (CORROSIVITY). TSCA: INGR EDIENTS IN EXIDE'S BATTERIES ARE
LISTED IN THE TSCA REGISTRY AS FOLLOWS: SULFURIC ACID, LEAD, LEAD
OXIDE, LEAD SULFATE, ANTIMONY,
ARSENIC, CALCIUM, TIN
State Regulatory Information:CALIFORNIA PROPOSITION 65: WARNING: THIS
PRODUCT CONTAINS LEAD, A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA
TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

========== Other Information ==========

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