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## EXIDE CORP -- LEAD-ACID BATTERY (ELECTRIC STORAGE BATTERY) -- 6140-01-203-4697

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

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

MSDS Date:02/01/1996

FSC:6140

NIIN:01-203-4697

Status Code:A

MSDS Number: CKXVQ === 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:(800)424-9300

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:SP0411-01-M-E445

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

====== Compos

ition/Information on Ingredients ========

Ingred Name:LEAD CAS:7439-92-1

RTECS #:OF7525000

= Wt:53.

Other REC Limits: 0.10 MG/N3(NIOSH)

OSHA PEL:0.05 MG/M3 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 Fraction by Wt: 0.003% % OSHA PEL:0.01 MG/M3 ACGIH TLV:0.20 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:.06

OSHA PEL:2 MG/M3 ACGIH TLV:2 MG/M3

Ingred Name: ELECTROLYTE (SULFURIC ACID/WATER/SOLUTION)

CAS:7664-93-9

RTECS #:WS5600000

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

Other REC Limits: 1 MG/M3 (NIOSH)

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

Ingred Name: CASE MATERIAL (POLYPROPYLENE)

CAS:9003-07-0

RTECS #:UD1842000 Minumum % Wt:5.

Maxumum %

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Health Hazards Acute and Chronic:ELECTROLYTE (WATER AND SULFURIC ACID SOLUTION): HARMFUL BY ALL ROUTES OF ENTRY. LEAD COMPOUNDS: HAZARDOUS EXPOSURE CAN OCCUR ONLY WHEN PRODUCT IS HEATED ABOVE MELTING POINT, OXIDIZED OR OTHERWISE PRO CESSED OR DAMAGED TO CREATE DUST, VAPOR, OR FUME. INHALAT

ION: BREATHING OF SULFURIC ACID

VAPORS OR MIST MAY CAUSE SEVERE RESPIRATORY IRRITATION. INHALATION OF LEAD DUST OR FUMES MAY CAUSE IRRITATION OF UPPER RESPIRATORY TRACT AND LUNGS. INGESTION: ELECTROLYTE MAY CAUSE SEVERE IRRITATION OF MOUTH, THROAT, ESOPHAGUS AND STOMACH. ACUTE INGESTION OF LEAD COMPOUNDS MAY CAUSE ABDOMINAL PAIN, NAUSEA, VO MITING, (CONTD. SEE TOXICOLOGICAL)

Explanation of Carcinogenicity:ELECTROLYTE: IARCS CLASSIFIES "STRONG INORGANIC ACID MIST C

ONTAINING SULFURIC ACID" AS A CATEGORY I

CARCINOGEN. THIS DOES NOT APPLY TO ELECTROLYTE IN BATTERIES. LEAD: LISTED AS A 2B CARCINOGEN. PROOF OF CARCINOGENICITY IN HUMANS IS LACKING AT PRESENT. ARSENIC: LISTED BY NTP, IARC, OSHA, AND NIOSH AS A CARCINOGEN ONLY AFTER PROLONGED EXPOSURE AT HIGH LEVELS.

Effects of Overexposure:ACUTE: ELECTROLYTE (WATER AND SULFURIC ACID SOLUTION): SEVERE SKIN IRRITATION, DAMAGE TO CORNEA MAY CAUSE BLINDNESS, UPPER RESPIRATORY IRRITATION. LEA

D COMPOUNDS: SYMPTOMS

OF TOXICITY INCLUDE HEADACHE, FATIGUE, ABDOMINAL PAIN, LOSS OF APPETITE, MUSCULAR ACHES AND WEAKNESS, SLEEP DISTURBANCES AND IRRITABILITY. CHRONIC: ELECTROLYTE (WATER AND SULFURIC 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; REPRODUCTIVE CHANGES IN BOTH MALES AND FEMALES.

Medical Cond Aggr

avated by Exposure:SULFURIC ACID MIST MAY AGGRAVATE
PULMONARY CONDITIONS. ELECTROLYTE MAY AGGRAVATE SKIN DISEASES SUCH
AS ECZEMA, CONTACT DERMATITIS. LEAD COMPOUNDS MAY AGGRAVATE KIDNEY,
LIVER, NEUROLOGIC DISEASES.

First Aid:INHALATION: ELECTROLYTE; MOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE OXYGEN. LEAD; MOVE FROM EXPOSURE, GARGLE, WASH NOSE AND LIPS; CONSULT PHYSICIAN. INGESTION: ELECTROLYTE: GI

## **VE LARGE**

QUANTIT IES OF WATER; DO NOT INDUCE VOMITING; CONSULT PHYSICIAN. LEAD; CONSULT PHYSICIAN IMMEDIATELY. SKIN: ELECTROLYTE: FLUSH WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES. REMOVE CONTAMINATED CLOTHING, INCLUDI NG SHOES. LEAD; WASH IMMEDIATELY WITH SOAP AND WATER. EYES: ELECTROLYTE AND LEAD: FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. CONSULT PHYSICIAN IMMEDIATELY.

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

Lower Limits:4.

1%(H2)

Upper Limits:74.2%(H2)

Extinguishing Media:CO2; FOAM; DRY CHEMICAL.

Fire Fighting Procedures:USE POSITIVE PRESSURE, SCBA. BEWARE OF ACID SPLATTER DURING WATER APPLICATION. WEAR ACID-RESISTANT CLOTHING, GLOVES, FACE/ EYE PROTECTION. SHUT OFF POWER TO CHARGING EQUIPMENT, BUT, NOTE THAT STRINGS OF SERIES CONNECTED BATTERIES MAY STILL POSE RISK OF ELECTRIC SHOCK EVEN WHEN CHARGING EQUIPMENT IS SHUT DOWN.

Unusual Fire/Explosion Hazard:BATTERIES GENERATE FLAMMABLE HYDROGEN

GAS. ALWAYS ASSUME BATTERIES CONTAIN THIS GAS WHICH, IF IGNITED BY BURNING CIGARETTE, OR SPARK, MAY CAUSE EXPLOSION WITH DISPERSION OF CASING FRAGMENTS AND CORROS IVE LIQUID. CAREFULLY FOLLOW INSTALLATION AND SERVICE INSTRUCTIONS. AVOID SHORT CIRCUITING TERMINALS.

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

Spill Release Procedures:STOP LEAK. CONTAIN/ABSORB SMALL SPILL WITH NON-COMBUSTIBLE MATERIALS (DRY SAND, EARTH, VERMICULITE). NEUTRALIZE

WITH SODA ASH, SODIUM BICARBONATE, LIME, ETC. WEAR ACID-RESISTANT CLOTHING, BOOTS, GLOVE S, FACE SHIELD. DO NOT ALLOW DISCHARGE OF UNNEUTRALIZED ACID TO SEWER. NEUTRALIZED ACID MUST BE MANAGED IAW LOCAL, STATE, FEDERAL REQUIREMENTS. CONSULT STATE ENVIRONMENTAL AGENCY AND/OR FEDERAL EPA.

Neutralizing Agent: SODA ASH, SODIUM BICARBONATE, LIME.

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

Handling and Storage Precautions:STORE UNDER ROOF IN COOL, DRY, W

- ELL-VENTILATED AREAS SEPARATED FROM INCOMPATIBLE MATERIALS AND ACTIVITIES WHICH MAY CREATE FLAMES, SPARKS, HEAT. STORE ON SMOOTH, IMPERVIOUS SURFACES PROVIDED WITH MEAS URES FOR LIQUID CONTAINMENT. AVOID SHORTING OF TERMINALS. HANDLE CAREFULLY.
- Other Precautions:THERE IS RISK OF ELECTRIC SHOCK FROM CHARGING EQUIPMENT AND FROM SERIES CONNECTED BATTERIES. SHUT-OFF POWER TO CHARGERS WHENEVER NOT IN USE AND BEFORE DETACHMENT OF CIRCUIT CONNECTIONS. BATTERIES BEIN G CHARGED WI
- LL GENERATE AND RELEASE
  - FLAMMABLE HYDROGEN GAS. VENTILATE CHARGING AREA. PROHIBIT SMOKIN G IN AREA.

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

**Protec** 

- tive Gloves:WEAR RUBBER OR PLASTIC-RESISTANT GLOVES WITH ELBOW-LENGTH GAUNTLET.
- Eye Protection: WEAR 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: EMERGENCY FLUSHING: IN AREAS WHERE WATER & SULFURIC ACID SOLUTIONS ARE HANDLED IN CONCENTRATIONS GREATER THAN 1%, EMERGENCY EYEWASH STATIONS & SHOWERS SHOULD BE PROVIDED, WITH

UNLIMITED WATER SUPPLY.

Supplemental Safety and Health

HANDLE BATTERIES CAUTIOUSLY, DO NOT TIP TO AVOID SPILLS. MAKE CERTAIN VENT CAPS ARE ON SECURELY. AVOID BODILY CONTACT WITH INTERNAL COMPONENTS. WEAR PROTECTIVE CLOTHING, EYE AND FACE PROTECTION, WHEN FILLING OR HANDLING BATTERIES.

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

HCC:C1

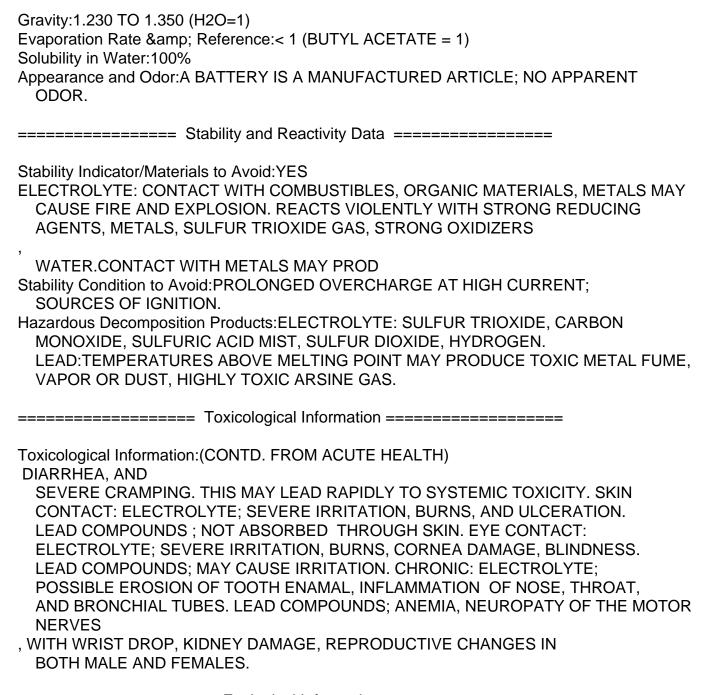
Boiling Pt:>95.C, 203.F

B.P. Text:203F-240FB.P. RANGE

Vapor Pres:17 TO 11MM HG @ 77F,S. G.

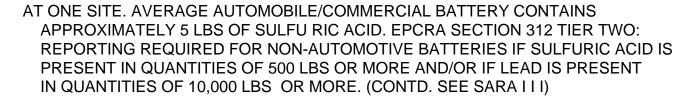
Vapor Density:>1 (AIR=1)

Spec



========== Ecological Information ================

Ecological:CERCLA AND EPCRA: (RQ) FOR SPILLED 100% SULFURIC ACID IS 1,000 LBS. STATE, LOCAL QANTITIES MAY VARY. SULFURIC ACID IS LISTED "EXTREMELY HAZARDOUS SUBSTANCE" UNDER EPCRA, WITH THRESHOLD PLANNING QUANTI TY (TPQ) OF 1,000 LBS. EPCRA SECTION 302 NOTIFICATION IS REQUIRED IF 1,000 LBS OR MORE SULFURIC ACID IS PRESENT



======= Disposal Considerations ===========

Waste Disposal Methods:SPENT BATTERIES: SEND TO SECONDARY LEAD SMELTER. PLACE NEUTRALI

ZED ELECTROLYTE INTO SEALED ACID RESISTANT CONTAINERS
AND DISPOSE OF AS HAZARDOUS WASTE. LARGE WATER-DILUTED SPILLS,
AFTER NEUTRALIZATION AND TESTING, SHOULD BE MANAGED I/A/W APPROVED
LOCAL, STATE, AND FEDERAL REQUIREMENTS. CONSULT STAT E
ENVIRONMENTAL AGENCY AND/OR FEDERAL EPA.

======= MSDS Transport Information ==========

Transport Information:U.S. DOT: WET (FILLED WITH ELECTRLYTE) BATTERIES ARE REGULATED BY U.S. DOT AS HAZARDOUS MATERIAL. PROPER SHIPPING

NAME: BATTERY, WET, FILLED WITH ACID; HAZARD CLASS/DIVISION: 8; UN 2794; PACKING GROUP: III; LABEL REQUIRED: CORROSIVE.

======== Regulatory Information ===========

- SARA Title III Information:(CONTD. FROM ECOLOGICAL) SUPPLIER
  NOTIFICATION: THIS PRODUCT CONTAINS TOXIC CHEMICALS WHICH MAY BE
  REPORTABLE UNDER EPCRA SEC. 313 TOXIC CHEMICAL RELEASE INVENTORY
  (FORM R) REQUIREMENTS. FOR MFG FACIL ITY UNDER SIC CODES 20 THROUGH
  39. FOLLOWING
- INFORMATION IS PROVIDED TO ENABLE YOU TO COMPLETE REQUIRED REPORTS: LEAD: 7439-92-1, WT 53%; SULFURIC ACID/WATER SOLUTION: 7664-93-9, WT 30-40%; ANTIMONY:7 440-36-0, WT 0.2%; ARSENIC: 7440-38-2, WT 0.003%. IF DISTRIBUTED TO OTHER MANUFACTURERS IN SIC CODES 20 THROUGH 39, THIS INFORMATION MUST BE PROVIDED WITH FIRST SHIPMENT OF EACH CALENDER YEAR. (CONTD. SEE FEDERAL)

Federal Regulatory Information:TSCA: INGREDIENTS IN EXIDE'S BATTERIES ARE LISTED IN THE TSCA REGISTRY

AS FOLLOWS: ELECTROLYTE: SULFURIC
ACID (H2SO4), 7664-93-9; INORGANIC LEAD COMPOUND: LEAD (PB),
7439-92-1; LEAD OXIDE (PBO), 1317- 36-8; LEAD SULFATE (PBSO4),
7446-14-2; ANTMONY (SB), 7440-36-0; ARSENIC (AS), 7440-38-2;
CALCIUM (CA), 7440-70-2; TIN (SN), 7440-31-5. (CONTD. FROM SARA I I
I) NOTE: THE SECTION 313 SUPPLIER NOTIFICAT ION REQUIREMENT DOES
NOT APPLY TO BATTERIES WHICH ARE "CONSUMER PRODUCTS".
State Regulatory Information:CALIFORNIA PROPOSITION 65: WARNING: THIS

PRODUCT CONTAINS LEAD, A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, OR BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. ECOLOGICAL DATA: CAA: EXIDE CO RP. SUPPORTS PREVENTATIVE ACTIONS CONCERNING OZONE DEPLETION IN THE ATMOSPHERE DUE TO EMISSIONS OF CFC'S AND OTHER OZONE DEPLETING CHEMICALS (ODC'S) DEFINED BY THE USEPA AS CLASS 1 SUBSTANCES. PERSUAN T TO SECTION 611 OF THE CLEAN AIR ACT AMENDMENTS (CAAA) OF 1990, FINALIZED ON JANUARY 19, 1993, EXID E EST

ABLISHED A POLICY TO ELIMINATE THE USE OF CLASS 1 ODC'S PRIOR TO THE MAY 15, 1993 DEADLINE.

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

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