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## EXIDE CORP -- LEAD-ACID BATTERY -- 6140-01-134-2531

Product ID:LEAD-ACID BATTERY

MSDS Date:02/01/1993

FSC:6140

NIIN:01-134-2531

MSDS Number: CFCVJ === 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 Num:610-378-0500/ 800-424-9300(CHEMTREC)

CAGE:20038

=== Contractor Identification === Company Name: CELL ENERGY

Box:UNKNOW CAGE:1V269

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 Fraction by Wt: 53%

Other REC Limits:100 UG/M3 (NIOSH)

OSHA PEL:SEE 1910.1025 ACGIH TLV:0.05MG/M3, A3; 9 596

EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name:SULFURIC ACID (SARA 302/313) (CERCLA)

CAS:7664-93-9

RTECS #:WS5600000 Fraction by Wt: 30 - 40%

Other REC Limits: 1 MG/M3 (NIOSH)

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: ANTIMONY (SARA 313) (CERCLA)

CAS:7440-36-0

RTECS #:CC4025000 Fraction by Wt: 0.2%

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 Na

me: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 Fraction by Wt: 0.02%

Other REC Limits: NONE RECOMMENDED

Ingred Name:TIN

CAS:7440-31-5

RTECS #:XP7320000 Fraction by Wt: 0.06%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:2 MG/M3

ACGIH TLV:2 MG/M3; 9596

Ingred Name:PROPYNE POLYMERS/

POLYPROPYLENE CAS:9003-07-4 RTECS #:UD1842000 Fraction by Wt: 5 - 6%

Other REC Limits: NONE RECOMMENDED

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

LD50 LC50 Mixture:TLV FOR SULFURIC ACID IS 1 MG/M3.

Routes of Entry: Inhalation:NO Skin:NO Ingestion:YES

Health Hazards Acute and Chronic:ACUTE- LEAD MAY CAUSE GI UPSET, LOSS OF APPETITE, DIARRHEA, CONSTIPATION, CRAMPING, LACK OF SLEEP. CONTACT WITH SULFURIC

ACID MAY LEAD TO EYE, SKIN & RESPIRATORY

TRACT IRRITATION, CORNEAL & LUNG DAMAG E. CHRONIC- LEAD MAY CAUSE ANEMIA, KIDNEY & NERVOUS SYSTEM DAMAGE. ACID CAN CAUSE BRONCHITIS, EROSION OF TOOTH ENAMEL.

Explanation of Carcinogenicity: CONTAINS ARSENIC AND LEAD.

Effects of Overexposure:LEAD MAY CAUSE GI UPSET, LOSS OF APPETITE, DIARRHEA, CONSTIPATION, CRAMPING, LACK OF SLEEP & FATIGUE. CONTACT WITH SULFURIC ACID MAY LEAD TO EYE, SKIN & RESPIRATORY TRACT IRRITATION, CORNEAL & LU

NG DA MAGE.

Medical Cond Aggravated by Exposure:INORGANIC LEAD AND ITS COMPOUNDS CAN AGGRAVATE CHRONIC FORMS OF KIDNEY, LIVER AND NEUROLOGIC DISEASES. CONTACT OF SULFURIC ACID WITH THE SKIN MAY AGGRAVATE SKIN DISEASES SUCH AS ECZEMA AND DERMATITIS.

First Aid:OBTAIN MEDICAL ATTENTION IN ALL CASES OF EXPOSURE. EYES/SKIN:FLUSH WITH WATER FOR 15 MINUTES. KEEP EYELIDS OPEN. INHALATION:MOVE TO FRESH AIR. PROVIDE OXYGEN/CPR IF NEEDED.

INGESTION:DO NOT INDUCE VOM ITING.IF CONSCIOUS, DRINK LARGE AMOUNT OF WATER. CALL PHYSICIAN IMMEDIATELY.

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

Flash Point:NON-FLAMMABLE Lower Limits:4.1%HYDROGEN

Upper Limits:74.2% (H2)

Extinguishing Media:CARBON DIOXIDE, FOAM, OR DRY CHEMICAL. WATER SPRAY MAY BE USED TO COOL FIRE-EXPOSED CONTAINER & DECREASE VAPORS.

Fire Fighting Procedures:IF BATTERIES ARE ON CHARGE, SHUT OFF POWER. USE POS

- ITIVE PRESSURE, SELF-CONTAINED BREATHING APPARATUS. WEAR ACID RESISTANT CLOTHING.
- Unusual Fire/Explosion Hazard:HIGHLY FLAMMABLE HYDROGEN GAS IS PRODUCED DURING CHARGING AND BATTERY OPERATION. THEY ENTER THE AIR THROUGH THE VENT CAPS. KEEP AWAY SPARKS/SOURCES OF FIRE.

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

- Spill Release Procedures: VENTILATE AREA. WEAR PROTECTIVE EQUIPMENTS.
  REMOVE COMBUSTIBLES & IGNITION SOURCES (H2 MAY BE PRESENT). CONTAIN
  BY D
- IKING & COVER SPILL WITH SODA ASH/QUICKLIME. MIX WELL. CHECK THAT MIXTURE IS NEUTRAL . COLLECT & PLACE IN A DRUM. DO NOT FLUSH TO SEWER
- Neutralizing Agent:SODA ASH (SODIUM CARBONATE), QUICKLIME (CALCIUM OXIDE)

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

Handling and Storage Precautions:STORE NEAR EYEWASH FOUNTAIN AND SAFETY SHOWER. STORAGE AREA SHOULD BE EQUIPPED WITH A DRAIN WHICH CAPTURES SPILLS OF ACID FOR PROPER DISPOSAL.

Other Precautions:POISON

-CAUSES SEVERE BURNS. DANGER-CONTAINS SULFURIC
ACID. REACTS WITH WATER VIOLENTLY. KEEP LIGHTED CIGARETTES, SPARKS,
AND FLAMES AWAY FROM CHARGING BATTERIES. KEEP OUT OF REACH OF SMALL
CHILDREN. W ASH HANDS WELL AFTER HANDLING.

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

Respiratory Protection: NOT REQUIRED UNDER NORMAL USE. USE NIOSH-APPROVED ACID-MIST FILTER RESPIRATOR IF 1 MG/M3 TWA IS EXCEEDED (ACID).

Ventilation: ADEQUATE GENERAL VENTILATION

Protect

ive Gloves:RUBBER

Eye Protection: SPLASH-PROOF CHEMICAL GOGGLES

Other Protective Equipment: RUBBER APRON AND BOOTS. EYES WASH STATION AND SAFETY SHOWER. USE ACID-PROOF CLOTHING FOR MAJOR SPILLS.

Work Hygienic Practices:REMOVE METALLIC JEWELRY-SHOCK POTENTIAL. WASH THOROUGHLY BEFORE EATING AND DRINKING.

Supplemental Safety and Health

DO NOT ALLOW METALLIC MATERIALS TO SIMULATNEOUSLY CONTACT NEGATIVE AND POSITIVE TERMINALS OF CELLS AND BATTERIES. FOLLOW MANUFACTURER'S INSTRUCTIONS FO

## R INSTALLATION AND SERVICE. ========= Physical/Chemical Properties ============ HCC:C1 Boiling Pt:B.P. Text:203-240F Melt/Freeze Pt:M.P/F.P Text:NOT GIVEN Decomp Temp:Decomp Text:NOT GIVEN Vapor Pres:17-11 Vapor Density:> 1 Spec Gravity: 1.230-1.350 Evaporation Rate & Dry Reference: < 1 (BUTYL ACETATE=1) Solubility in Water: COMPLETE Appearance and Odor:MANUFACTURED ARTICLE. IT IS A BATTERY. ======== Stability and Reactivity Data ========== Stability Indicator /Materials to Avoid:YES COMBUSTIBLES, ORGANIC MATERIALS, STRONG REDUCING AGENTS, STRONG OXIDIZERS, METALS, STRONG BASES, HALIDES, WATER Stability Condition to Avoid: HIGH HEAT, FLAMES (HYDROGEN), OVERCHARGING, SMOKING, SPARKS Hazardous Decomposition Products: OXIDES OF LEAD & SULFUR, HYDROGEN, SULFUR DIOXIDE & SULFUR TRIOXIDE, ARSINE GAS, TOXIC METAL FUME, SULFURIC ACID MISTS ========== Disposal Considerations ================

Waste Disposal Methods:DISPOSE AS HAZ
ARDOUS WASTE. OBSERVE ALL FEDERAL,
STATE AND LOCAL ENVIRONMENTAL REGULATIONS FOR ACID OR LEAD SCRAP.
SEND BATTERIES TO LEAD SMELTER FOR RECLAMATION FOLLOWING APPLICABLE

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