EXIDE CORP.-GENERAL BATTERY CORP -- LEAD-ACID BATTERY -- 6140-00-438-0299

Product ID:LEAD-ACID BATTERY

MSDS Date:05/01/1991

FSC:6140

NIIN:00-438-0299

MSDS Number: BXXKC === Responsible Party ===

Company Name: EXIDE CORP.-GENERAL BATTERY CORP

Address:645 PENN STREET

City:READING

State:PA ZIP:19601 Country:US

Info Phone Num:215-378-0527

Emergency Phone Num:215-378-0527/800-424-9300(CHEMTREC)

CAGE:08163

=== Contractor Identificat

ion ===

Company Name: ARJAY ELECTRONICS CORP Address: 525 W CHESTER PIKE SUITE 314

Box:City:HAVERTOWN

State:PA

ZIP:19083-4539 Country:US

Phone:215-449-3600

CAGE:64812

Company Name: EXIDE CORP.-GENERAL BATTERY CORP

Address:645 PENN STREET

Box:City:READING

State:PA ZIP:19601 Country:US

Phone:215-378-0527/800-424-9300(CHEMTREC)

CAGE:08163

======= Composition/Information on Ingredients ========

Ingred Name:LEAD CAS:7439-92-1

RTECS #:OF7525000 Fraction by Wt: 60%

Other REC Limits: NONE REC

OMMENDED

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 Fraction by Wt: 2%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:500 UG/M3 ACGIH TLV:500 UG/M3 EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name: ARSENIC

CAS:7440-38-2

RTECS #:CG0525000 Fraction by Wt: 0.2%

Other REC Limits: NONE RECOMMENDED

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

Ingred Name: CALCIUM

CAS:7440-70-2

RTECS #:EV8040000 Fraction by Wt: 0.2%

Other REC Li

mits:NONE RECOMMENDED

Ingred Name:TIN CAS:7440-31-5 RTECS #:XP7320000 Fraction by Wt: 0.2%

Other REC Limits: NONE RECOMMENDED

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

Ingred Name: SULFURIC ACID

CAS:7664-93-9

RTECS #:WS5600000 Fraction by Wt: 10-30%

Other REC Limits: NONE RECOMMENDED

EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

Ingred Name: CASE MATERIAL

Fraction by Wt: 5-10%

Other REC Limits: NONE RECOMMENDED

Ingred Name: SILICON DIOXIDE

CAS:60676-86-0 Fraction by Wt: 10%

Other REC Limits: NONE RECOMMENDED

Ingred Name:SHEET MOLDING COMPOUND

Fraction by Wt: 10%

Other REC Limits: NONE RECOMMENDED

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

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

Health Hazards Acute and Chronic:CONTACT WITH SULFURIC ACID MAY LEAD TO EYE, SKIN & RESPIRATORY TRACT IRRITATION, CORNEAL & LUNG DAMAGE. CHRONIC- LEAD MAY CAUSE ANEMIA, KIDNEY & NERVOUS SYSTEM DAMAGE. ACID CAN CA

USE BRONCHITIS, EROSI ON OF TOOTH ENAMEL.

Explanation of Carcinogenicity: CONTAINS I A [7440-38-2] WHICH IS LISTED BY NTP AND IARC AND REGULATED BY OSHA AS A CARCINOGEN.

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 & LUNG 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:EYES-IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES. CONSULT PHYSICIAN. SKIN-REMOVE CONTAMINATED CLOTHES. FLUSH WITH WATER. INHALED-REMOVE TO FRESH AIR. ADMINISTER OXYGEN IF BREATHING DIFFICULT. INGESTED -IF CONSCIOUS, GIVE LARGE QUANTIT IES OFWATER.

DO NOT INDUCE VOMITING! CONSULT PHYSICIAN.

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

Flash Point: NON-FLAMMABLE

Lower Limits: 4.1% (H2)

Upper Limits:74.2% (H2)

Extinguishing Media:CARBON DIOXIDE, FOAM, HALOGEN, 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.
WATER APPLIED TO ELECTROLYTE GENERATES HEAT AND CAUSES IT TO
SPATTER. WEAR A

CID RESISTANT CLOTHING. Unusual Fire/Explosion Hazard:HYDROGEN GAS IS PRODUCED IN THE CELLS DURING BATTERY OPERATION OR CHARGING. TO AVOID RISK OF FIRE OR EXPLOSION, KEEP SPARKS OR OTHER SOURCES OF IGNITION AWAY.
======== Accidental Release Measures ==========
Spill Release Procedures:STOP FLOW OF MATERIAL, CONTAIN/ABSORB SMALL SPILLS WITH DRY SAND, EARTH, VERMICULITE. DO NOT USE COMBUSTIBLE MATERIALS. IF POSSIBLE, CAREFULLY NEUTRALIZE SPILLED ELECTROLYTE
WITH SODA ASH, SODIUM BICA RBONATE, LIME. Neutralizing Agent:SODA ASH (SODIUM CARBONATE), QUICKLIME (CALCIUM OXIDE)
============ Handling and Storage =============
Handling and Storage Precautions:STORE BATTERIES IN COOL, DRY, WELL-VENTILATED AREAS WITH IMPERVIOUS SURFACES AND ADEQUATE CONTAINMENT IN EVENT OF SPILLS. Other Precautions:BATTERIES SHOULD ALSO BE STORED UNDER ROOF FOR PROTECTION AGAINST ADVERSE WEATHER CONDITIONS. KEEP AWAY FROM FIRE, SPA
RKS AND HEAT.
====== Exposure Controls/Personal Protection ========
Respiratory Protection:NOT REQUIRED UNDER NORMAL USE. WHEN CONCENTRATIONS OF SULFURIC ACID MIST ARE KNOWN TO EXCEED PEL, USE NIOSH OR MSHA-APPROVED RESPIRATORY PROTECTION. Ventilation:ADEQUATE GENERAL VENTILATION Protective Gloves:RUBBER WITH ELBOW-LENGTH GAUNTLET Eye Protection:SPLASH-PROOF CHEMICAL GOGGLES Other Protective Equipment:RUBBER APRON AND BOOTS. EYES WASH STATION AND SAFETY SHOWER. USE AC ID-PROOF CLOTHING FOR MAJOR SPILLS. Work Hygienic Practices:REMOVE METALLIC JEWELRY-SHOCK POTENTIAL. WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING AND DRINKING. Supplemental Safety and Health SEPARATE FROM INCOMPATIBLE MATERIALS.
======== Physical/Chemical Properties =========
HCC:N1 Boiling Pt:B.P. Text:203F,95C Vapor Pres:10

Vapor Density:>1 Spec Gravity:1.230 - 1.350 Evaporation Rate & Deference: