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ADVANTAGE BATTERY CORP. SUBSID OF ACUMEX -- LEAD-ACID BATTERY -- 6140-01-360-6489

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

Product ID:LEAD-ACID BATTERY

MSDS Date:03/15/1996

FSC:6140

NIIN:01-360-6489

MSDS Number: BYHBQ === Responsible Party ===

Company Name: ADVANTAGE BATTERY CORP. SUBSID OF ACUMEX

Address:8701 BEDFORD-EULESS RD SUITE 501

City:HURST State:TX ZIP:76053 Country:US

Info Phone Num:817-589-12

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Emergency Phone Num:800-424-9300 (CHEMTREC)

CAGE:0VW59

=== Contractor Identification ===

Company Name: CELL ENERGY INC Address: 3190-B ORANGE GROVE AVE

Box:City:NORTH HIGHLANDS

State:CA

ZIP:95660-5706

Country:US

Phone:916-484-7974

CAGE:1U269

Company Name: GES AMERICA (FORMERLY) ADVANTAGE BATTERY CORP

Address:7001 GRAPEVINE HIGHWAY 500

Box:City:NORTH RICHLAND HILLS

State:TX ZIP:76180 Country:US

Phone:817-589-1225

CAGE:0VW59

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

In

gred Name:SULFURIC ACID (SARA III)

CAS:7664-93-9

RTECS #:WS5600000 Fraction by Wt: 11-23%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3; 9293 EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

Ingred Name:LEAD (SARA III)

CAS:7439-92-1

RTECS #:OF7525000 Fraction by Wt: 64-80%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:0.05 MG/M3;1910.1025 ACGIH TLV:0.15 MG/M3;DUST 9293

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

Ingred Name: ANTIMONY (SARA 313) (CERCLA)

CAS:7440-36-0

RTECS #:CC4025000

Fracti

on by Wt: 1.5%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:0.5 MG/M3

ACGIH TLV:0.5 MG (SB)/M3; 9495

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: 0.2%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:SEE 1910.1018

ACGIH TLV:0.01 MG/M3, A1; 9495

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

Ingred Name: CALCIUM, METAL

CAS:7440-70-2

RTECS #:EV8040000 Fraction by Wt: 0.2%

Other REC Limits: 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; 9495

Ingred Name: POLYPROPYLENE (CASE MATERIAL)

CAS:9003-07-0

RTECS #:TR5000000 Fraction by Wt: 5-6%

Other REC Limits: NONE RECOMMENDED

Ingred Name: POLYETHYLENE (SEPARATOR MATERIAL)

CAS:9002-88-4

RTECS #:TQ3325000 Fraction by Wt: 1-2%

Other REC Limits: NONE RECOMMENDED

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

LD50 LC50 Mixture:LD50 (ORAL RAT) IS 2140 MG/KG

(H2SO4)

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE:ACID IS CORROSIVE TO ALL

TISSUES! MAY CAUSE IRRITATIONAND BURNS OF SKIN, EYES, OR GI TRACT. MAY CAUSE CORNEAL DAMAGE OR BLINDNESS. MAY BE FATAL IF SWALLOWED. CHRONIC: TOOTH EROSION, INFLAMMATION OF NOSE, THROAT AND BRONCHIAL TUBES.

Explanation of Carcinogenicity:THE ELECTROLYTE IS NOT LISTED BY IARC, NTP, OR OSHA AS A CA

RCINOGEN.

Effects of Overexposure:INHALATION: BURNING SENSATION IN NOSE, THROAT AND LUNGS, COUGHING, WHEEZING, SHORTNESS OF BREATH. EYES: REDNESS, TEARING, BLURRED VISION, BURNS, SEVERE PAIN. SKIN: SEVERE PAIN, BURNS, REDNESS, RASH, I TCHING. INGESTION: BURNS OF MOUTH, THROAT, AND ESOPHAGUS, SEVERE STOMACH PAIN, NAUSEA, VOMITING.

Medical Cond Aggravated by Exposure:PERSONS WITH A HISTORY OF AILMENTS OR WITH A PRE-EXISTING DISEASE INVOLVING THE RESPIRATORY TRACT OR TEETH M

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First Aid:INHALATION:REMOVE TO FRESH AIR. RESUSCITATE IF NOT BREATHING. GET MEDICAL ATTENTION. EYES:IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15 MINUTES HOLDING EYELIDS OPEN. GET PROMPT MEDICAL ATTENTION. SKIN:REMOVE CONTAMINATED CLOTHING. WASH WITHPLENTY OF WATER FOR 15 MINUTES. GET MEDICAL ADVICE. INGESTION:DO NOT INDUCE VOMITING. GIVE NOTHING BY MOUTH IF UNCONSCIOUS. GET IMMEDIATE MEDICAL ATTENTION.
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Extinguishing Media:USE DRY CHEMICAL, CARBON DIOXIDE, FOAM, HALOGEN. Fire Fighting Procedures:USE OF WATER IN EXTINGUISHING BURNING BATTERIES MAY CAUSE SPATTERING DUE TO THE PRESENCE OF MOLTEN LEAD. WEAR SCBA AND FULL PROTECTIVE GEAR. Unusual Fire/Explosion Hazard:WHEN BATTERY IS BEING CHARGED, HYDROGEN GAS IS PRODUCED. BATTERY MAY EXPLODE IF HYDROGEN GAS TRAPPED INSIDE TH
E CASE SHOULD IGNITE.
========= Accidental Release Measures ==========
Spill Release Procedures:SHOULD A BATTERY BREAK OPEN, ISOLATE AREA. ELECTROLYTE SHOULD BE ABSORBED WITH A NON-ORGANIC TYPE ABSORBENT SUCH AS DRY SAND OR EARTH. RESIDUE MAY BE NEUTRALIZED WITH BAKING SODA AND RINSED WITH WATER. Neutralizing Agent:USE SODA ASH OR BAKING SODA TO NEUTRALIZE THE ELECTROLYTE.
============ Handling and Storage =============
Handling and Sto rage Precautions:AVOID THE USE OF UNINSULATED TOOLS. IF THEY ARE REQUIRED, TAKE CARE NOT TO ELECTRICALLY SHORT THE TERMINALS. REMOVE METAL JEWELRY BEFORE SERVICING. Other Precautions:UNDER NORMAL CONDITIONS OF USE, EXPOSURE TO LEAD OR LEAD CONTAINING COMPOUNDS DOES NOT OCCUR. SHOULD A BATTERY BREAK OPEN AND A LEAD SPILL OCCUR, PRECAUTIONS SHOULD BE TAKEN TO PREVENT LEAD DUST FROM BECOMING AIR BORNE.
====== Exposure Controls/Personal Protection =======
Respir

AY BE AT INCREASED RISK FROM EXPOSURE.

atory Protection:UNDER NORMAL CONDITIONS OF USE, RESPIRATORY PROTECTION IS NOT REQUIRED. HOWEVER, IF CONDITIONS ARISE THAT REQUIRE THEIR USE, USE ONLY NIOSH/MSHA RESPIRATORS APPROVED FOR DUST, FUME AND MIST.

Ventilation:BATTERY CHARGING AREAS MUST BE ADEQUATELY VENTILATED TO PREVENT HAZARDOUS CONCENTRATIONS OF FLAMMABLE GAS OR ACID MIST.

Protective Gloves: RUBBER GLOVES APPROVED FOR SULFURIC ACID

Eye Protection: CHEMICAL SPLASH GOGGLES AND FACE SHIELD

Other Protective Equipment: EYE

WASH STATION AND SAFETY SHOWER.

INDUSTRIAL-TYPE IMPERVIOUS WORK CLOTHING, BOOTS AND APRON AS REQUIRED.

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. Supplemental Safety and Health

MSDS FROM MANUFACTURER WAS STRICTLY FOR SULFURIC ACID; PHYSICAL CHARACTERISTICS IN MSDS ARE FOR SULFURIC ACID.

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

HCC:C1

Boiling Pt:B.P. Text:230

F,110C

Vapor Pres:10 MMHG

Vapor Density:>1

Spec Gravity: 1.24-1.28

Evaporation Rate & Deference: