View NSN Online: https://aerobasegroup.tw/nsn/6140-01-360-6489

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:817-589-122 5 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

Ing

red 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 Fractio n 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:7440-315 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

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 CAR

CINOGEN.

- 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 MA

Y BE AT INCREASED RISK FROM EXPOSURE.

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 UNCONSCIO

US. GET IMMEDIATE MEDICAL ATTENTION.

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 THE

CASE SHOULD IGNITE.

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 Stor

age 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 ==========

Respira

tory 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.

HCC:C1 Boiling Pt:B.P. Text:230F ,110C Vapor Pres:10 MMHG Vapor Density:>1 Spec Gravity:1.24-1.28 Evaporation Rate & amp; Reference: