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ADVANTAGE BATTERY CORPORATION -- BATTERIES, AUTOMOTIVE, COMMERCIAL AND INDUSTRIAL -- 6140-01-203-8982

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

Product ID:BATTERIES, AUTOMOTIVE, COMMERCIAL AND INDUSTRIAL

MSDS Date: 10/03/1994

FSC:6140

NIIN:01-203-8982 Status Code:A

MSDS Number: CJPTB === Responsible Party ===

Company Name: ADVANTAGE BATTERY CORPORATION

Address:8701 BEDFORD-EULESS RD SUITE 501

City:HURST

St

ate:TX ZIP:76053 Country:US

Info Phone Num:800-367-1407

Emergency Phone Num:800-367-1407

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

Contract Num:SP0430-99-MAR49

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

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======= Composition/Information on Ingredients ========
Ingred Name:SULFURIC ACID (SARA III) CAS:7664-93-9 RTECS #:WS5600000 Minumum % Wt:30. Maxumum % Wt:38. 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
========== 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: CONTACT CAUSES SEVERE BURNS TO ALL TISSUES INCLUDING EYES AND SKIN. INHALATION: CAUSES SEVERE IRRITATION OF RESPIRATORY TRACT. INGESTION:CAUSES SEVERE BURNS AND ULCERATION. CHRONIC: TOOTH EROSI ON, INFLAMMATION OF NOSE, THROAT AND BRONCHIAL TUBES. Explanation of Carcinogenicity:THE ELECTROLYTE IS NOT LISTED BY IARC, NTP, OR OSHA AS A CARCINOGEN. Effects of Overexposure:INHALATION: BURNING SENSATION IN NOSE, TH ROAT 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 MAY BE AT INCREASED RISK FROM EXPOSURE.
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Measures ====================================
First Aid:INHALATION:REMOVE TO FRESH AIR. RESUSCITATE IF NOT BREATHING. GET MEDICAL ATTENTION. EYES:IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES HOLDING EYELIDS OPEN. GET PROMPT MEDICAL ATTENTION. SKIN:REMOVE C ONTAMINATED CLOTHING. WASH WITH WATER FOR 15 MINUTES. GET MEDICAL ADVICE. INGESTION:DO NOT INDUCE VOMITING. IF

CONSCIOUS, DRINK LARGE AMOUNTS OF WATER. GET IMMEDIATE MEDICAL ATTENTION.

======== Fire Fighting Measur

Extinguishing Media:USE DRY CHEMICAL, CARBON DIOXIDE, FOAM.
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:AFTER ELECTROLYTE IS ADDED AND BATTERY IS BEING CHARGED, HYDROGEN GAS IS PRODUCED. BATTERY MAY EXPLODE IF HYDROGEN GAS TRAPPED INSIDE THE CASE SHOULD IGNITE.

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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. AVOID DILUTION WITH WATER. LEAD SPILLED FROM THE BATTERY SHOULD B E VACUUMED, DO NOT SWEEP OR USE COMPRESSED AIR.

Neutralizing Agent: USE SODA ASH OR BAKING SODA TO NEUTRALIZE THE ELECTROLYTE.

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

s:STORE IN A WELL VENTILATED AND COOL

======= Accidental Release Mea

AREA. DO NOT OVERCHARGE OR PHYSICALLY DAMAGE BATTERIES. HANDLE WITH CARE TO AVOID OVERTURNING OR DAMAGING BATERIES. STORE AWAY FROM OPEN FLAMES AND FLAMMABLES. HYDR OGEN PRODUCED DURING CHRAGING IS FLAMMABLE AND EXPLOSIVE.

Other Precautions:UNDER NORMAL CONDITIONS OF USE, EXPOSURE TO LEAD OR LEAD CONTAINING COMPOUNDS DOES NOT OCCUR. SHOULD A BATTERY BREAK OPEN AND A LEAK OCCURS, SAFETY GLASSES, ACID-RESISTANT GLOVES OR ACID RESIST

ANT CLO THING MUST BE WORN.

Exposure Controls/Personal Protection	
 Exposure Controls/1 ersonal i rotection	

Respiratory 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

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

HCC:C1

Boiling Pt:=95.C, 203.F Vapor Pres:10 MM HG Vapor Density:>1

Spec Gravity:>1.24 TO 1.28

pH:1

Evaporation Rate & Deference: