

YUASA BATTERY (AMERIACA), INC -- DM SERIES -- 6140-01-037-1357  
===== Product Identification =====

Product ID:DM SERIES  
MSDS Date:01/02/1991  
FSC:6140  
NIIN:01-037-1357  
MSDS Number: BNMPK  
=== Responsible Party ===  
Company Name:YUASA BATTERY (AMERIACA), INC  
Address:9728 ALBURTIS AVE  
City:SANTA FE SPRINGS  
State:CA  
ZIP:90670  
Country:US  
Info Phone Num:213-949-4266/800-423-4667  
Emergency Phone Num:213-949-4266/800-423-4667  
CAGE:4S875  
=== Contractor Identification ===  
Company Name:BATTERY OUTLET INC  
Address:1608 CAMPOSTELLA RD  
Box:City:CHESAPEAKE  
State:VA  
ZIP:23324  
Country:US  
Phone:757-545-4442  
CAGE:0FGN2  
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:YUASA BATTERY (AMERIACA), INC  
Address:9728 ALBURTIS AVE  
Box:City:SANTA FE SPRINGS  
State:CA  
ZIP:90670  
Country:US  
Phone:213-949-4266/800-423-4667  
CAGE:4S875

===== Composition/Information o

n Ingredients =====

Ingred Name:SULFURIC ACID (SARA III)

CAS:7664-93-9

RTECS #:WS5600000

Fraction by Wt: 32-40%

Other REC Limits:NONE SPECIFIED

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3; 9192

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: MAY CAUSE IRRITATION OF

RESPIRATORY TRACT, EYES, SKIN OR GI TRACT. MAY CAUSE BURNS OF SKIN, EYES, OR GI TRACT. MAY CAUSE CORNEAL DAMAGE OR BLINDNESS. 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 CARCINOGEN.

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, ITCHING. 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.

===== First Aid Measures =====

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 WITH PLENTY OF WATER FOR 15 MINUTES. GET MEDICAL ADVICE. INGESTION:DO NOT INDUCE VOMITING. GIVE NOTHING BY MOUTH IF UNCONSCIOUS. GET IMMEDIATE MEDICAL ATTENTION.

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

Extinguishing Media:USE DRY CHEMICAL, CA

RBON 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: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.

#### ===== 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. 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 =====

Handling and Storage Precautions:AVOID THE USE OF UNINSULATED TOOLS. IF

THEY ARE REQU

URED, 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 =====

Respiratory Protection:UNDER NORMAL CONDITIONS OF USE, RESPIRATORY

PROTECTI

ON 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 CLOT

HING, 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

THIS MSDS REFLECTS DIFFERENT MFG PART OR SERIES DESIGNATOR FROM PART A  
FOR THIS NSN (CAGE: YUASA). ALSO UPDATES CAGE FOR MANUFACTURER. RQ  
FOR CERCLA AND SARA III IS 1000 LBS (ELECTROLYTE). MSDS WRITTE N  
FOR ELECTROLYE- IT IS THE PRIMARY HAZARD DURING NORMAL USE AND  
HANDLING

.

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

HCC:Z4

Boiling Pt:=95.C, 203.F

B.P. Text:203F,95C

Melt/Freeze Pt:M.P/F.P Text:-94F,-70C

Vapor Pres:10

Vapor Density:>1

Spec Gravity:1.25-1.29

pH:1

Evaporation Rate & Reference: