

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:213-949-4266/8

00-423-4667  
CAGE:4S875

===== Composition/Information on 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 Conditions 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

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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: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 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 =====

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 STA

TION 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

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 ELECTRO

LYE- 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: