

DELCO REMY DIV OF GENERAL MOTORS CORP -- M27MF BATTERY -- 6140-01-262-2272

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

Product ID:M27MF BATTERY

MSDS Date:05/08/1991

FSC:6140

NIIN:01-262-2272

MSDS Number: BMSSD

=== Responsible Party ===

Company Name:DELCO REMY DIV OF GENERAL MOTORS CORP

Address:2401 COLUMBUS AVE

City:ANDERSON

State:IN

ZIP:46018

Country:US

Info Phone Num:317-646-3080

Emergency Phone Num:317-

646-3080

Preparer's Name:ROBERT A. CHISMAN,SR IH

CAGE:LO728

=== 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:DELCO REMY DIV OF GENERAL MOTORS CORP

Address:2401 COLUMBUS AVE

Box:2439

City:ANDERSON

State:IN

ZIP:46018

Country:US

Phone:317-646-3080

CAGE:LO728

Company Name:GENERAL MOTORS CORP, DELCO REMY DIV

Address:2401 COLUMBUS AVE

Box:640

City:ANDERSO

N
State:IN
ZIP:48011
Country:US
Phone:EMER:313/556-1597 OR 6200
CAGE:16764

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

Ingred Name:SULFURIC ACID (SARA III)
CAS:7664-93-9
RTECS #:WS5600000
Fraction by Wt: 37%
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

Ingred Name:WATER
CAS:7732-18-5
RTECS #:ZC0110000
Fraction by Wt: BALANCE
Other REC Limits:NONE SPECIFIED

Ingred Name:LEAD (SARA III)
CAS:7439-92-
1
RTECS #:OF7525000
Other REC Limits:NONE SPECIFIED
OSHA PEL:0.05 MG/M3;1910.1025
ACGIH TLV:0.15 MG/M3;DUST 9192
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

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

LD50 LC50 Mixture:LD50 ORAL RAT IS 2140 MG/KG.
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES
Health Hazards Acute and Chronic:ACUTE: SEVERE BURNS AND ULCERATION OF
SKIN, EYES, MOUTH, THROAT, ESOPHAGUS AND STOMAC

H; INFLAMMATION OF
BRONCHIAL MEMBRANES. CHRONIC: EROSION OF TEETH, INFLAMMATION OF
NOSE, THROAT AND BRONCHIAL TUBES .

Explanation of Carcinogenicity:LEAD IS LISTED UNDER IARC AND NTP.

ARSENIC IS LISTED UNDER IARC, NTP AND OSHA.

Effects of Overexposure:IF CONTACTED, SEVERE BURNS AND ULCERATION OF
SKIN AND EYES. IF INHALED, SEVERE RESPIRATORY IRRITATION. IF
INGESTED, SEVERE BURNS AND ULCERATION

Medical Cond Aggravated by Exposure:EXPOSURE TO MISTS MAY CAUSE LUNG
DAMAGE AND
AGGRAVATE PULMONARY CONDITIONS.

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

First Aid:EYES/SKIN: FLUSH WITH PLENTY OF WATER. SEE DOCTOR
IMMEDIATELY. REMOVE CONTAMINATED CLOTHING AND SHOES. INHALATION:
REMOVE TO FRESH AIR. GIVE OXYGEN/CPR IF NEEDED. SEE DOCTOR.
INGESTION: DO NOT INDUCE VOMITING. GIVE MILK OR WATER, FOLLOWED BY
2 OUNCES OF MILK OF MAGNESIA (NO CARBONATES). SEE DOCTOR
IMMEDIATELY.

===== Fire Fighting Measures =====
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Flash Point:NONE

Lower Limits:4.0(HYDROGN)

Upper Limits:75(HYDROGEN)

Extinguishing Media:USE CARBON DIOXIDE OR DRY CHEMICAL.

Fire Fighting Procedures:EVACUATE AREA. REMOVE ALL IGNITION SOURCES.
WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SCBA. COOL
FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:HYDROGEN GAS MAY BE PRODUCED AND MAY
EXPLODE IF IGNITED. REMOVE ALL IGNITION SOURCES. VENTILATE AREA.
ACID IS POWERFUL OXIDIZER, CAN
IGNITE COMBUSTIBLES.

===== Accidental Release Measures =====

Spill Release Procedures:WEAR APPROPRIATE PROTECTIVE EQUIPMENT. DILUTE
CAUTIOUSLY WITH WATER. COVER WITH SODA ASH OR QUICKLIME. SCOOP UP
AND PLACE IN APPROPRIATE DISPOSAL CONTAINER. FLUSH AREA WITH LARGE
AMOUNTS OF WATER.

Neutralizing Agent:SODA ASH (SODIUM CARBONATE), BAKING SODA OR
QUICKLIME (CALCIUM OXIDE).

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

Handling and

Storage Precautions:STORE AT ROOM TEMPERATURE AWAY FROM
FLAMES, IGNITION SOURCES, COMBUSTIBLE AND ORGANIC MATERIALS. AVOID
PROLONGED OVERCHARGING. WEAR PROTECTIVE EQUIPM.
Other Precautions:DO NOT CARRY BATTERY BY TERMINALS. DO NOT DROP
BATTERY, PUNCTURE OR ATTEMPT TO OPEN BATTERY CASE. KEEP TERMINALS
COVERED IN PLASTIC CASE. AVOID SHORTING BATTERIES. PLACE BROKEN
BATTERIES IN PLASTIC CO NTAINERS AND DELIVER TO BATTERY RECYCLER

===== Exposure Controls/Personal Protec
tion =====

Respiratory Protection:NONE NORMALLY REQUIRED. NIOSH/MSHA-APPROVED
CARTRIDGE RESPIRATOR FOR ACIDS OR FULL FACE MASK AS APPROPRIATE FOR
EXPOSURE OF CONCERN WHEN TLV IS EXCEEDED.

Ventilation:GENERAL (MECHANICAL) VENTILATION. LOCAL EXHAUST IN CONFINED
AREAS.

Protective Gloves:RUBBER GLOVES IF CONTACT IS EXPECTED.

Eye Protection:GOGGLES IF CONTACT IS EXPECTED.

Other Protective Equipment:RUBBER APRON AND BOOTS IF CONTACT IS
EXPECTED. EYE WASH STATION AND SAFETY SHO
WER.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING.

Supplemental Safety and Health

CLEAN TERMINALS WITH MILD BAKING SODA SOLUTION AND WASH WITH WATER.
WHEN BRUSHING BATTERY POSTS, USE MASK APPROVED FOR LEAD DUST,
SAFETY GLASSES AND GLOVES.

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

HCC:C1

Boiling Pt:B.P. Text:233F,112C

Vapor Pres:2.73

Spec Gravity:1.280

pH: