

GENERAL MOTORS CORP, DELCO REMY DIV -- DELCO BATTERY,W-B-131-5-75-630-F --
6140-01-203-4706

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

Product ID:DELCO BATTERY,W-B-131-5-75-630-F
MSDS Date:05/08/1991
FSC:6140
NIIN:01-203-4706
MSDS Number: BMXCH
=== Responsible Party ===
Company Name:GENERAL MOTORS CORP, DELCO REMY DIV
Address:2401 COLUMBUS AVE
Box:2439
City:ANDERSON
State:IN
ZIP:46018-9986
Country:US
Info Phone Num:317-646-7800
Emergency Phone Num:317-646-3080
Prepare
r's Name:ROBERT A.CHISMAN
CAGE:16764
=== 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:GENERAL MOTORS CORP, DELCO REMY DIV
Address:2401 COLUMBUS AVE
Box:640
City:ANDERSON
State:IN
ZIP:48011
Country:US
Phone:EMER:313/556-1597 OR 6200
CAGE:16764

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

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

Ingred Name:SULFURIC ACID (SARA III)
CAS:7664-93-9
RTECS #:WS5600000
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
Other REC Limits:NONE SPECIFIED

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

Routes of E
ntry: Inhalation:YES Skin:NO Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE: CONTACT WITH SULFURIC ACID
RESULTS IN RAPID DESTRUCTION OF BODY TISSUE (BURNS); INCLUDING
EYES, SKIN, MUCOUS MEMBRANES OF NOSE, THROAT AND UPPER RESPIRATORY
SYSTEM. CHRONIC: LEAD CAN CAUSE CHRO NIC ANEMIA, DAMAGE TO KIDNEYS,
NERVOUS SYSTEM AND REPRODUCTIVE SYSTEM.SULFURIC ACID MAY LEAD TO
SCARRING OF CORNEA.
Effects of Overexposure:SULFURIC
ACID MAY CAUSE LOSS OF APPETITE,
DIARRHEA, CONSTIPATION WITH CRAMPING, DIFFICULTY SLEEPING ,
FATIGUE, SCARRING OF THE CORNEA AND CHRONIC BRONCHITIS AS WELL AS
EROSION OF TOOTH ENAMEL.
Medical Cond Aggravated by Exposure:INORGANIC LEAD AND ITS COMPOUNDS
CAN AGGRAVATE CHRONIC FORMS OF KIDNEY, LIVER, AND NEUROLOGIC
DISEASES. CONTACT OF SULFURIC ACID WITH THE SKIN MAY AGGRAVATE SKIN
DISEASES SUCH AS ECZEMA, DERMATITIS.

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

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First Aid:EYES: FLUSH WITH LARGE AMOUNT OF WATER. GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH AREA WITH SOAP AND WATER. GET MEDICAL ATTENTION. INHALATION: REMOVE TO FRESH AIR. GET MEDICAL AT TENTION. INGESTION: LEAD/LEAD COMPOUNDS:GET MEDICAL ATTENTION. SULFURIC ACID: DO NOT INDUCE VOMITING. GIVE MILK MIXED WITH EGE WHITES IF CONSCIOUS. GET MEDICAL ATTENTION.

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

Extinguishin
g Media:USE CARBON DIOXIDE, FOAM, OR DRY CHEMICAL.
Fire Fighting Procedures:USE POSITIVE PRESSURE SELF CONTAINED BREATHING APPARATUS IF BATTERIES ARE INVOLVED IN FIRE DUE TO TOXIC FUMES FROM BURNING PLASTIC AND ACID FUMES AND VAPORS.
Unusual Fire/Explosion Hazard:HYDROGEN GAS IS PRODUCED IN THE CELLS DURING NORMAL OPERATION. TO AVOID THE CHANCE OF A FIRE OR EXPLOSION, KEEP BATTERIES AWAY FROM IGNITION SOURCES.

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

Spill Release Procedures:REMOVE COMBUSTABLE MATERIALS AND SOURCES OF IGNITION. CONTAIN SPILL BY DIKING WITH SODA ASH (SODIUM CARBONATE) OR QUICKLIME (CALCIUM OXIDE). MIX SPILL WELL WITH EITHER CHEMICAL. MAKE SURE MIXTURE IS N EUTRAL, COLLECT RESIDUE IN A SUITABLE CONTAINER.
Neutralizing Agent:SODIUM BICARBONATE, SODA ASH (SODIUM CARBONATE) OR QUICKLIME (CALCIUM OXIDE).

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

Handling and Storage Precautions:STORE
IN COOL, DRY, WELL VENTILATED
AREA WITH IMPERVIOUS SURFACES AND ADEQUATE SPILL CONTAINMENT.
BATTERIES SHOULD BE STORED UNDER ROOF.
Other Precautions:AVOID DAMAGE TO CONTAINERS. KEEP AWAY FROM FIRE, SPARKS, AND HEAT. DO NOT GET LIQUID/VAPORS IN EYES, ON SKIN, OR ON CLOTHING. DO NOT BREATH VAPORS. SODIUM BICARBONATE, SODA ASH, SAND OR LIME SHOULD BE KEPT IN AREA FOR EMERGENCY USE.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:NON

E NORMALLY REQUIRED. WHEN CONCENTRATIONS OF
SULFURIC ACID MIST ARE KNOWN TO EXCEED PEL, USE NIOSH OR
MSHA-APPROVED RESPIRATORY PROTECTION.

Ventilation:LOCAL EXHAUST IS RECOMMENDED AT CHARGING STATIONS AND WHERE
PEL IS EXCEEDED. VENT. COMPONENTS MUST BE ACID-RESISTANT.

Protective Gloves:ROUGH, VINYL COATED, PVC, OR RUBBER.

Eye Protection:CHEMICAL SPLASH GOGGLES/FACE SHIELD

Other Protective Equipment:HAVE EYE WASH STATION AND SAFETY SHOWER
AVAILABLE. ACID-RESISTANT APRONS,BOOTS AND
PROTECTIVE CLOTHING FOR
MAJOR SPILL.

Work Hygienic Practices:WASH AFTER HANDLING AND BEFORE EATING, DRINKING
OR SMOKING. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

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

HCC:C1

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

Vapor Pres:2.73

Spec Gravity:1.28 +/- .01

pH: