

GENERAL MOTORS CORP, DELCO REMY DIV -- ALL MODELS OF DELCO BATTERIES --  
6140-01-203-4697

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

Product ID:ALL MODELS OF DELCO BATTERIES

MSDS Date:02/22/1993

FSC:6140

NIIN:01-203-4697

MSDS Number: BTRBG

=== 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:317-646-7800

Preparer's Name:RICHARD GALLAGER

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 Ingredi

ents =====

Ingred Name:SULFURIC ACID (SARA III)  
CAS:7664-93-9  
RTECS #:WS5600000  
Fraction by Wt: 37%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:1 MG/M3  
ACGIH TLV:1 MG/M3; 9394  
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 RECOMMENDED

Ingred Name:LEAD (SARA III)  
CAS:7439-92-1  
RTECS #:OF7525000  
Fraction by Wt: >90%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:SEE 1910.1025  
ACGIH TLV:0.15 MG/M3,DU  
ST;9394  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

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

LD50 LC50 Mixture:TLV: 1 MG/M3  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO  
Health Hazards Acute and Chronic:CONTACT WITH SULFURIC ACID RESULTS IN  
RAPID DESTRUCTION OF BODY TISSUE (BURNS).  
Explanation of Carcinogenicity:ACCORDING TO THE IARC, OCCUPATIONAL  
EXPOSURE TO STRONG INORGANIC ACID MIST IS CARCINOGENIC T  
O HUMANS.  
Effects of Overexposure:NONE SPECIFIED BY MANUFACTURER.  
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:INHALATION-DO NOT EXCEED 1 MG/M3 TEW. REMOVE TO FRESH AIR.  
GET MEDICAL ATTENTION. INGESTION-DO NOT INDUCE VOMITING. GIVE MILK  
MIXED WITH EGG WHITES, IF CONSCIOUS. GET MEDICAL ATTENTION. EYE OR  
SKIN CO NTA CT-FLUSH WITH LARGE VOLUMES OF WATER.GET MEDICAL  
ATTENTION.

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

Extinguishing Media:NONE SPECIFIED BY MANUFACTURER.  
Fire Fighting Procedures:RECOMMENDED SELF-CONTAINED BREATHING APPARATUS  
IF BATTERIES ARE INVOLVED IN FIRE. TOXIC FUMES FROM BURNING  
PLASTIC, ACID FUMES AND VAPORS CAN OCCUR.  
Unusual Fire/Explosion Hazard:WHILE BATTERIES ARE BEING CHARGED,  
HYDROGEN GAS IS GENERATED. AVOID OPEN FLAME, SPARKS OR LIGHTED  
MATCHES. ACID, AN OXIDIZER, CAN IGNITE COMBUSTIBLES ON CONTACT

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

Spill Release Procedures:LIME OR SODA-TYPE COMPOUNDS MAY BE USED TO  
NEUTRALIZE AND/OR FLUSH WITH LARGE VOLUMES OF WATER. CONTAIN SPILL.  
Neutralizing Agent:LIME OR SODA-TYPE COMPOUNDS.

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

Handling and Storage Precautions:AVOID SKIN CONTACT WHEN CHARGING  
BATTERIES. AVOID PLACING IN AREAS WHERE HYDROGEN GAS CAN BUILD UP.  
DO NOT PLACE NEAR OPEN FLAMES, SPARKS OR LIT MATCH  
Other Precautions:PAY ATTENTION TO LABELS ON BATTERY AND CARTONS  
CONTAINING BATTERIES. LISTED AS A CARCINOGEN IN NTP, IARC OR PSHA:  
SULFURIC ACID = IARC.

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

Respiratory Protection:USE NIOSH APPROVED RESPIRATORY PROTECTION IF 1  
MG/M3 TWA IS EXCEEDED (ACID).  
Ventilation:LOCAL EXHAUST-YES, AT CHARGING STATION.  
Protective Gloves:RUBBER GLOVES.  
Eye Protection:SPLASH PROOF SAFETY GOGGLES.  
Other Protective  
Equipment:USE RUBBER BOOTS AND ACID-PROOF CLOTHING FOR  
MAJOR SPILLS.  
Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING.  
Supplemental Safety and Health  
NONE

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

HCC:C1  
Boiling Pt:B.P. Text:233F,112C  
Vapor Pres:2.730 MMHG  
Spec Gravity:1.280 AVERAGE  
pH: