

GENERAL MOTORS CORP, DELCO REMY DIV -- ALL MODELS OF DELCO BATTERIES --  
6140-01-343-1591

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

Product ID:ALL MODELS OF DELCO BATTERIES

MSDS Date:02/22/1993

FSC:6140

NIIN:01-343-1591

MSDS Number: BVFNY

=== 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 Phon

e Num:317-646-7800

Emergency Phone Num:317-646-7800

Preparer's Name:RICHARD GALLAGHER

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

Company Name:RUTA SUPPLIES INC (718-729-4955)

Bo

x:UNKNOWN  
CAGE:0NJT4

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Composition/Information on Ingredients  
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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,DUST;9394  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

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Hazards Identification  
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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 IARC, OCCUPAT

IONAL EXPOSURE

TO STRONG INORGANIC ACID MISTS CONTAINING SULFURIC ACID IS CARCINOGENIC TO MAN.

Effects of Overexposure:NONE SPECIFIED BY MANUFACTURER.

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First Aid Measures  
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First Aid:INHALATION-DO NOT EXCEED 1 MG/M3 TWA. 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 CONTACT-FLUSH WITH LARGE VOLUMES OF WATER.GET MEDICAL ATTENTION.

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Fire Fighting Measures  
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Extinguishing Media:NONE SPECIFIED BY MANUFACTURER.  
Fire Fighting Procedures:RECOMMENDED SELF CONTAINED BREATHING APPARATUS IF BATTERIES ARE INVOLVED IN FIRE DUE TO TOXIC FUMES FROM BURNING PLASTIC & ACID FUMES & VAPORS CAN OCCUR.  
Unusual Fire/Explosion Hazard:WHILE BATTERIES ARE BEING CHARGED, HYDROGEN GAS IS GENERATED. AVOID OPEN FLAMES, SPARKS OR LIGHTED MATCHES. ACID & POWERFUL OXIDIZERS, CAN IGNITE COMBUSTIBLES.

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

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

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Exposure Controls/Personal Protection  
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Respiratory Protection:USE NIOSH APPROVED RESPIRATORY PROTECTION IF 1 MG/M3 TWA IS EXCEEDED (ACID).  
Ventilation:LOCAL EXHAUST AT CHARGING STATION.  
Protective Gloves:RUBBER  
Eye Protection:SPLASH-PROOF SAFETY  
Other Protective Equipment:USE RUBBER B

OOTS AND ACID PROOF CLOTHING FOR  
MAJOR SPILLS.

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

NONE

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

HCC:C1

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

Vapor Pres:2.730 MMHG

Spec Gravity:AVERAGE 1.280

pH: