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Product ID:ALL MODELS OF DELCO BATTERIES,96687 MSDS Date:11/24/1986 FSC:6115 NIIN:01-237-4374 MSDS Number: BSCZV === Responsible Party === Company Name: GENERAL MOTORS CORP AC-DELCO DIV GOV'T ORDER DEPT Address:6060 W BRISTOL RD City:FLINT State:MI ZIP:485 54 Country:US Info Phone Num:313-635-5905 Emergency Phone Num:313-635-5905 Preparer's Name: ROBERT A. CHISMAN CAGE:61928 === Contractor Identification === Company Name: GENERAL MOTORS CORP AC-DELCO DIV Address:6060 W BRISTOL RD Box:City:FLINT State:MI ZIP:48554 Country:US Phone:810-635-5905 CAGE:61928 Company Name: STEWART AND STEVENSON SERVICES INC. Address:4516 HARRISBURG BLVD Box:1637 **City:HOUSTON** State:TX ZIP:77251-4637 Country:US Phone:713-923-2161 CAGE:81381

======= Composition/Inform

ation on Ingredients =========

Ingred Name:LEAD (SARA III) CAS:7439-92-1 RTECS #:OF7525000 Fraction by Wt: 50% Other REC Limits:100 UG/M3 (NIOSH) OSHA PEL:0.05 MG/M3;1910.1025 ACGIH TLV:0.15 MG/M3;DUST 9293 EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name:SULFURIC ACID (SARA III) CAS:7664-93-9 RTECS #:WS5600000 Fraction by Wt: 37% Other REC Limits:1 MG/M3 (NIOSH) OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3; 9293 EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

======= Hazards Identificatio

LD50 LC50 Mixture: TLV FOR SULFURIC ACID IS 1 MG/M3. Routes of Entry: Inhalation:NO Skin:NO Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO Health Hazards Acute and Chronic: ACUTE- LEAD MAY CAUSE GI UPSET, DIARRHEA, CRAMPING & FATIGUE. SULFURIC ACID MAY CAUSE EYE, SKIN & RESPIRATORY TRACT IRRITATION, BURNS, CORNEAL & LUNG DAMAGE. CHRONIC- LEAD MAY CAUSE ANEMIA, KIDNEY & N ERVOUS SYSTEM DAMAGE. ACID CAN CAUSE BRONCHITIS, EROSION OF TOO TH ENAMEL. TARGET ORGANS: EYES, SKIN, LUNGS, KIDNEY. Explanation of Carcinogenicity: CONTAINS LEAD. Effects of Overexposure: GI UPSET, LOSS OF APPETITE, DIARRHEA, CONSTIPATION, CRAMPING, LACK OF SLEEP, FATIGUE, EYE, SKIN & **RESPIRATORY TRACT IRRITATION, BURNS, CORNEAL & LUNG DAMAGE** 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 AND DERMATITIS.

First Aid:OBTAIN MEDICAL ATTENTION IN ALL CASES OF EXPOSURE. EYES/SKIN:FLUSH WITH WATER FOR 15 MINUTES. KEEP EYELIDS OPEN. INHALATION:MOVE TO FRESH AIR. INGESTION:DO NOT INDUCE VOMITING. IF CONSCIOUS, DRINK MIL K MIXED WITH EGG WHITES. CALL PHYSICIANIMMEDIATELY.

Flash Point:NON-FLAMMABLE
Extinguishing
Media:CARBON DIOXIDE, FOAM, OR DRY CHEMICAL. WATER SPRAY
MAY BE USED TO COOL FIRE-EXPOSED CONTAINER & DECREASE VAPORS.
Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND
NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL
FACEPIECE OPERATED IN THE POSITIVE PRESSURE MODE.
Unusual Fire/Explosion Hazard:HYDROGEN GAS IS PRODUCED WHILE CHARGING.
KEEP AWAY SPARKS AND OTHER SOUCES IF IGNITION. SULFURIC ACID MAY

IGNITE COMBUSTIBLE MATERIALS.

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Spill Release Procedures:WEAR PROTECTIVE EQUIPMENTS. REMOVE COMBUSTIBLES & IGNITION SOURCES (H2 MAY BE PRESENT). CONTAIN BY DIKING AND COVER SPILL WITH SODA ASH OR QUICKLIME. MIX WELL. CHECK THAT MIXTURE IS NEUTRAL. COLLECT A ND PLACE IN A DRUM. DO NOT FLUSH TO SEWER.

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

Handling and Storage P recautions:STORE NEAR EYEWASH FOUNTAIN AND SAFETY SHOWER. STORAGE AREA SHOULD BE EQUIPPED WITH A DRAIN WHICH CAPTURES SPILLS OF ACID FOR PROPER DISPOSAL.

Other Precautions: KEEP TERMINALS COVERED IN PLASTIC CASE. AVOID SHORTING BATTERIES. DO NOT CRACK OR OVERCHARGE BATTERIES. KEEP LIGHTED CIGARETTES, SPARKS, AND FLAMES AWAY FROM CHARGING BATTERIES. KEEP OUT OF REACH OF C HILDREN.

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

Respiratory Protection:NOT R

EQUIRED UNDER NORMAL USE. USE NIOSH-APPROVED ACID-MIST FILTER RESPIRATOR IF 1 MG/M3 TWA IS EXCEEDED (ACID). Ventilation: ADEQUATE GENERAL VENTILATION Protective Gloves: RUBBER Eye Protection: SPLASH-PROOF CHEMICAL GOGGLES Other Protective Equipment: RUBBER APRON AND BOOTS. EYES WASH STATION AND SAFETY SHOWER. USE ACID-PROOF CLOTHING FOR MAJOR SPILLS. Work Hygienic Practices: REMOVE METALLIC JEWELRY-SHOCK POTENTIAL. WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING AND DRINKING. Supplem ental Safety and Health
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HCC:C1 NRC/State Lic Num:NOT RELEVANT Spec Gravity:NOT RELEVANT Evaporation Rate & amp; Reference:NOT RELEVANT Appearance and Odor:BATTERY
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Stability Indicator/Materials to Avoid:YES STRONG OXIDIZING AGENTS, STRONG REDUCING AGENTS, MOST METALS, STRONG BASES Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES, OVERCHARGING, SMOK ING, SPARKS
Hazardous Decomposition Products:OXIDES OF LEAD AND SULFUR, HYDROGEN, SULFUR DIOXIDE AND SULFUR TRIOXIDE
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Waste Disposal Methods:DISPOSE AS HAZARDOUS WASTE. OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS FOR ACID OR LEAD SCRAP. SEND BATTERIES TO LEAD SMELTER FOR RECLAMATION FOLLOWING APPLICABLE

Disclaimer (provided with this information by the

FEDERAL, STATE AN D LOCAL REGULATIONS.

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