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GENERAL MOTORS CORP AC-DELCO DIV GOV'T ORDER DEPT -- ALL MODELS OF DELCO BATTERIES,96687 -- 6115-01-237-4374

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

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:4855

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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/Informa

tion 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

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 TOOT

H 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 D

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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.
=========== Fire Fighting Measures ============
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.
======== Accid ental Release Measures ============
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)
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Handling and Storage Pr ecautions: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 RE

ISEASES SUCH AS ECZEMA AND DERMATITIS.

QUIRED 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. Suppleme ntal Safety and Health ========= Physical/Chemical Properties =========== HCC:C1 NRC/State Lic Num: NOT RELEVANT Spec Gravity: NOT RELEVANT Evaporation Rate & Evaporation R Appearance and Odor:BATTERY ======== Stability and Reactivity Data ========== 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, SMOKI NG. SPARKS SULFUR DIOXIDE AND SULFUR TRIOXIDE

Hazardous Decomposition Products: OXIDES OF LEAD AND SULFUR, HYDROGEN,

======= Disposal Considerations ============

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 FEDERAL, STATE AN D LOCAL REGULATIONS.

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