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Material Safety Data Sheet

ACDELCO BATTERY, WET, FILLED WITH ACID

\*Infosafe No.\* 1EVJ7 \*Issue Date\* December 2006 \*Status\* DRAFT by ACDELCOG

\*Classified as hazardous\*

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING  
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\*Product Name\* ACDELCO BATTERY, WET, FILLED WITH ACID  
\*Product Code\*  
\*Product Use\* LEAD/ ACID STORAGE BATTERY  
\*Company Name\* ACDELCO, GM HOLDEN LTD  
\*Address\* 99 Princess Hwy, Dandenong South Dandenong South VIC 3175  
\*Emergency Tel.\* 03 97977340 or 03 97977341 (between 9am-5pm)

\*Other Names\* \*Name\* \*Product Code\*  
BATTERY, WET, FILLED WITH ACID

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2. COMPOSITION/INFORMATION ON INGREDIENTS  
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\*Information on Composition\* BATTERY CONTAINER : POLYPROPYLENE

*Ingredients *	*Name *	*CAS *	*Proportion * ** **
LEAD/LEAD OXIDE		7438-92-1	60-100 %
SULFURIC ACID	7664-93-9		10-30 %
ANTIMONY ALLOY	7440-36-0		0-10 %
ARSENIC	7440-38-2		0-0.09 %

\*Substance Chemical Family\* CHEMICAL FAMILY : TOXIC AND CORROSIVE MATERIAL  
\*Dangerous Components / Constituents\* FORMULA : LEAD/ ACID

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3. HAZARDS IDENTIFICATION  
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Danger of cumulative effects.  
Causes severe burns.

Possible risk of impaired fertility.

May cause harm to the unborn child  
Harmful by inhalation and if swallowed.

\*Reproductive Toxicity\* ACCORDING TO NOHSC THIS PRODUCT IS A CATEGORY 1 REPRODUCTIVE HAZARD, MAY CAUSE HARM TO THE UNBORN CHILD. POSSIBLE RISK OF IMPARED FERTILITY.

\*Chronic Effects\* DANGER OF CUMULATIVE EFFECTS.

\*Inhalation\* HARMFUL VIA INHALATION. INHALATION OF MISTS OR VAPOURS WILL RESULT IN RESPIRATORY IRRITATION AND POSSIBLE HARMFUL CORROSIVE EFFECTS INCLUDING LESIONS OF THE NASAL SEPTUM, PULMONARY EDEMA, PNEUMONITIS AND EMPHYSEMA.

\*Ingestion\* HARMFUL IF SWALLOWED. INGESTION OF THIS PRODUCT MAY CAUSE NAUSEA, VOMITING, ABDOMINAL PAIN AND CHEMICAL BURNS TO THE MOUTH, THROAT AND STOMACH.

\*Skin\* SKIN CONTACT WILL CAUSE REDNESS, ITCHING, IRRITATION, SEVERE PAIN AND CHEMICAL BURNS WITH RESULTANT TISSUE DESTRUCTION.

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\*Eye\* EYE CONTACT WILL CAUSE STINGING, BLURRING, TEARING, SEVERE PAIN AND POSSIBLE PERMANENT CORNEAL DAMAGE.

4. FIRST AID MEASURES

\*\* SEEK MEDICAL ATTENTION FOR ALL EXPOSURE EMERGENCIES.
\*Inhalation\* IF INHALED, REMOVE FROM CONTAMINATED AREA. APPLY ARTIFICIAL RESPIRATION IF NOT BREATHING. SEEK IMMEDIATE MEDICAL ATTENTION.
\*Ingestion\* DO NOT INDUCE VOMITING, WASH OUT MOUTH WITH WATER. SEEK IMMEDIATE MEDICAL ATTENTION.
\*Skin\* WASH AFFECTED AREA THOROUGHLY WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE OR DISCARD. SEEK MEDICAL ATTENTION.
\*Eye\* IF CONTACT WITH THE EYE(S) OCCURS, WASH WITH COPIOUS AMOUNTS OF WATER HOLDING EYELID(S) OPEN. TAKE CARE NOT TO RINSE CONTAMINATED WATER INTO THE NON-AFFECTED EYE. SEEK IMMEDIATE MEDICAL ATTENTION.
\*First Aid Facilities\* EYE WASH, SAFETY SHOWER AND GENERAL WASHROOM FACILITIES.
\*Advice to Doctor\* TREAT SYMPTOMATICALLY.

5. FIRE FIGHTING MEASURES

\*Extinguishing Media\* HALON OR DRY CHEMICAL EXTINGUISHER.
\*Specific Hazards\* UNUSUAL FIRE AND EXPLOSION HAZARDS: HYDROGEN GAS AND SULFURIC ACID VAPORS ARE GENERATED UPON OVERCHARGE, VENTILATE CHARGING AREAS.
\*Hazardous Combustion Products\* UNDER FIRE CONDITIONS THIS PRODUCT MAY EMIT TOXIC AND/OR IRRITATING FUMES.
\*Flash Point\* NOT AVAILABLE.
\*Flammable Limits UEL\* 74.2
\*Flammable Limits LEL\* 4.0

6. ACCIDENTAL RELEASE MEASURES

\*\* IF MATERIAL IS RELEASED OR SPILLED, TAKE THE FOLLOWING ACTIONS: WEAR FULL PROTECTIVE CLOTHING AND BREATHING APPARATUS. AVOID ANY EXPOSURE. CONTAIN SPILLED MATERIAL WITH INERT NON COMBUSTIBLE MATERIAL AND COLLECT IN A SUITABLE LABELLED CONTAINER. SEAL ALL WASTES IN A VAPOUR TIGHT LABELLED CORROSION RESISTANT CONTAINER FOR EVENTUAL DISPOSAL. IF THIS MATERIAL ENTERS THE WATERWAYS CONTACT THE ENVIRONMENTAL PROTECTION AUTHORITY, OR YOUR LOCAL WASTE MANAGEMENT AUTHORITY.

7. HANDLING AND STORAGE

\*Handling\* AVWHEN HANDLING AND STORING, KEEP AWAY FROM FLAMES DURING AND IMMEDIATELY AFTER CHARGING. AVOID PROLONGED OVERCHARGING. LIFT WITH BATTERY CARRYING DEVICE AND DO NOT EXCESSIVELY TILT BATTERY. IT IS ESSENTIAL THAT ALL WHO COME INTO CONTACT WITH THIS MATERIAL MAINTAIN HIGH STANDARDS OF PERSONAL HYGIENE IE. WASHING HANDS PRIOR TO EATING, DRINKING AND SMOKING.
\*Storage\* STORE IN A COOL, DRY WELL VENTILATED AREA AWAY FROM HEAT AND OUT OF DIRECT SUNLIGHT. KEEP SECURELY SEALED AND PROTECTED AGAINST PHYSICAL DAMAGE. INSPECT REGULARLY FOR DEFICIENCIES SUCH AS DAMAGE OR LEAKS.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Table with 5 columns: National Exposure Standards (ppm), TWA (mgm3), Name, STEL (mgm3), and FootNote. Rows include LEAD/LEAD OXIDE, SULFURIC ACID, and ANTIMONY ALLOY.

\*Other Exposure Information\* NO EXPOSURE STANDARDS HAVE BEEN ESTABLISHED FOR THIS MATERIAL BY THE NATIONAL OCCUPATIONAL HEALTH AND SAFETY COMMISSION (NOHSC). HOWEVER, EXPOSURE STANDARDS FOR INGREDIENTS

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ARE STATED ABOVE:

AS PUBLISHED BY THE NATIONAL OCCUPATIONAL HEALTH AND SAFETY COMMISSION (NOHSC):

TWA - THE TIME-WEIGHTED AVERAGE AIRBORNE CONCENTRATION OVER AN EIGHT-HOUR WORKING DAY, FOR A FIVE-DAY WORKING WEEK OVER AN ENTIRE WORKING LIFE.

STEL (SHORT TERM EXPOSURE LIMIT) - THE AVERAGE AIRBORNE CONCENTRATION OVER A 15 MINUTE PERIOD WHICH SHOULD NOT BE EXCEEDED AT ANY TIME DURING A NORMAL EIGHT-HOUR WORKDAY.

ACCORDING TO CURRENT KNOWLEDGE THESE CONCENTRATIONS SHOULD NEITHER IMPAIR THE HEALTH OF, NOR CAUSE UNDUE DISCOMFORT TO, NEARLY ALL WORKERS.

\*Respiratory Protection\* IF ENGINEERING CONTROLS ARE NOT EFFECTIVE IN CONTROLLING AIRBORNE EXPOSURE THE RESPIRATORY PROTECTIVE EQUIPMENT SUCH AS HALF MASK RESPIRATOR WITH ACID MIST FILTERS ARE RECOMMENDED.

REFERENCE SHOULD BE MADE TO AUSTRALIAN STANDARDS AS/NZS 1715, SELECTION, USE AND MAINTANENCE OR RESPIRATORY PROTECTIVE DEVICES AND AS/NZS 1716, RESPIRATORY PROTECTIVE DEVICES.

\*Eye Protection\* SAFETY GLASSES WITH SIDE SHIELDS, GOGGLES OR FULL-FACE SHIELD AS APPROPRIATE RECOMMENDED. FINAL CHOICE OF APPROPRIATE EYE/FACE PROTECTION WILL VARY ACCORDING TO INDIVIDUAL CIRCUMSTANCES I.E. METHODS OF HANDLING OR ENGINEERING CONTROLS AND ACCORDING TO RISK ASSESSMENTS UNDERTAKEN. EYE PROTECTION SHOULD CONFORM WITH AUSTRALIAN/NEW ZEALAND STANDARD AS/NZS 1337 - EYE PROTECTORS FOR INDUSTRIAL APPLICATIONS.

\*Hand Protection\* WEAR GLOVES OF IMPERVIOUS MATERIAL. FINAL CHOICE OF APPROPRIATE GLOVES WILL VARY ACCORDING TO INDIVIDUAL CIRCUMSTANCES I.E. METHODS OF HANDLING OR ACCORDING TO RISK ASSESSMENTS UNDERTAKEN. REFERENCE SHOULD BE MADE TO AS/NZS 2161.1: OCCUPATIONAL PROTECTIVE GLOVES - SELECTION, USE AND MAINTENANCE.

\*Body Protection\* WEAR PROTECTIVE OVERALLS AND CHEMICAL RESISTANT APRON WHERE CLOTHING IS LIKELY TO BE CONTAMINATED.

\*Eng. Controls\* LOCAL EXHAUST VENTILATION PREFERRED. MECHANICAL ACCEPTABLE AT 1 TO 4 CHANGES/ PER/ HOUR

\*Biological Limit Values\* NO BIOLOGICAL LIMIT ALLOCATED.

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9. PHYSICAL AND CHEMICAL PROPERTIES  
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\*Appearance\* CLEAR LIQUID.  
\*Odour\* PUNGENT ODOUR (SHARP PENETRATING ODOUR)  
\*Melting Point\* NOT AVAILABLE.  
\*Boiling Point\* 95°C  
\*Solubility in water\* 100%  
\*Specific Gravity (H2O=1)\* NOT AVAILABLE.  
\*Vapour Pressure\* NOT AVAILABLE.  
\*Vapour Density (Air=1)\* LESS THAN 1  
\*Evaporation Rate\* -1  
\*Volatile Component\* 10-30%  
\*Flash Point\* NOT AVAILABLE.  
\*Flammable Limits LEL\* 4.0  
\*Flammable Limits UEL\* 74.2

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10. STABILITY AND REACTIVITY  
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\*Stability\* U-3, F-0, S-2 R-W UNSTABLE.  
\*Hazardous Polymerization\* WILL NOT OCCUR.  
\*Materials to Avoid\* WATER.  
\*Hazardous Decomposition Products\* NOT AVAILABLE.  
\*Hazardous Reaction\* CONTACT WITH WATER MAY CAUSE ELECTRIC SHOCK AND REACTION.  
\*Conditions to Avoid\* AVOID OVERCHARGING AND SMOKING IN THE VICINITY OF CHARGING BATTERIES, AVOID SPARKS, POOR VENTILATION.

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11. TOXICOLOGICAL INFORMATION  
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\*Toxicology Information\* NO TOXICOLOGICAL DATA AVAILABLE FOR THIS PRODUCT.  
\*Inhalation\* HARMFUL VIA INHALATION. INHALATION OF MISTS OR VAPOURS WILL RESULT IN RESPIRATORY IRRITATION AND POSSIBLE HARMFUL CORROSIVE EFFECTS INCLUDING LESIONS OF THE NASAL SEPTUM, PULMONARY EDEMA,

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PNEUMONITIS AND EMPHYSEMA.

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\*Skin\* SKIN CONTACT WILL CAUSE REDNESS, ITCHING, IRRITATION, SEVERE PAIN AND CHEMICAL BURNS WITH RESULTANT TISSUE DESTRUCTION.

\*Eye\* EYE CONTACT WILL CAUSE STINGING, BLURRING, TEARING, SEVERE PAIN AND POSSIBLE PERMANENT CORNEAL DAMAGE.

\*Chronic Effects\* DANGER OF CUMULATIVE EFFECTS.

\*Reproductive Toxicity\* ACCORDING TO NOHSC THIS PRODUCT IS A CATEGORY 1 REPRODUCTIVE HAZARD, MAY CAUSE HARM TO THE UNBORN CHILD. POSSIBLE RISK OF IMPAIRED FERTILITY.

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12. ECOLOGICAL INFORMATION  
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\*Environment Protection\* DO NOT ALLOW TO ENTER WATERWAYS.

\*Mobility\* NOT AVAILABLE.

\*Persistence / Degradability\* NOT AVAILABLE.

\*Ecotoxicity\* NO ECOLOGICAL DATA AVAILABLE.  
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13. DISPOSAL CONSIDERATIONS  
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\*\* DISPOSE OF WASTE ACCORDING TO FEDERAL, EPA, STATE AND LOCAL REGULATIONS.  
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14. TRANSPORT INFORMATION  
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THIS MATERIAL IS CLASSIFIED AS A CLASS 8 (CORROSIVE) DANGEROUS GOOD ACCORDING TO THE AUSTRALIAN CODE FOR THE TRANSPORT OF DANGEROUS GOODS BY ROAD AND RAIL. DANGEROUS GOODS OF CLASS 8 (CORROSIVE) ARE INCOMPATIBLE IN A PLACARD LOAD WITH ANY OF THE FOLLOWING:

- CLASS 1, EXPLOSIVE
  - CLASS 4.3, DANGEROUS WHEN WET SUBSTANCE
  - CLASS 5.1, OXIDISING AGENT
  - CLASS 5.2, ORGANIC PEROXIDE
  - CLASS 6, TOXIC AND INFECTIOUS SUBSTANCES, IF THE CLASS 6 DANGEROUS GOODS ARE CYANIDES AND THE CLASS 8 DANGEROUS GOODS ARE ACIDS
  - CLASS 7, RADIOACTIVE SUBSTANCE
- AND ARE INCOMPATIBLE WITH FOOD AND FOOD PACKAGING IN ANY QUANTITY.

\*U.N. Number\* 2794

\*Proper Shipping Name\* BATTERIES, WET, FILLED WITH ACID

\*DG Class\* 8

\*Packaging Method\* #

\*Packing Group\* III

\*EPG Number\* 8A1

\*IERG Number\* 37  
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15. REGULATORY INFORMATION  
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\*Risk Phrase\*

R33 Danger of cumulative effects.

R35 Causes severe burns.

R62 Possible risk of impaired fertility.

R61(1) May cause harm to the unborn child

R20/22 Harmful by inhalation and if swallowed.

\*Safety Phrase\* S23 Do not breathe gas/fumes/vapour/spray

S27 Take off immediately all contaminated clothing.

S36/37/39 wear suitable protective clothing, gloves and eye/face protection.

\*Poisons Schedule\* Not Scheduled

\*Hazard Category\* Toxic, Corrosive  
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16. OTHER INFORMATION  
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\*User Codes \* \*\_User Title Label\_\* \*\_User Code\_\*  
Approval Number 5124

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\*SDS History\*   MSDS Reviewed: December 2006  
\*Poisons Schedule\*   Not Scheduled  
\*Hazard Category\*   Toxic, Corrosive  
\*\*           ACDelco Part # Battery Type

NS40ZWC Wet Calcium  
NS40ZLWC Wet Calcium  
NS40ZLSWC Wet Calcium  
NS40ZSWC Wet Calcium  
22F54WC wet Calcium  
22FR54WC wet Calcium  
22F66WC Wet Calcium  
22FR66WC Wet Calcium  
55D23LWC wet Calcium  
55D23RWC Wet Calcium  
AU2266WC wet Calcium  
AU22R66WC wet Calcium  
NS70WC wet Calcium  
NS70LWC wet Calcium  
NX1105WC wet Calcium  
NX1105LWC Wet Calcium  
NX1207WC wet Calcium  
NX1207LWC wet Calcium  
55457WC wet Calcium  
56330WC wet Calcium  
56318WC wet Calcium  
58827WC wet Calcium  
N38-54WC wet Calcium  
N38L-54DFWC wet Calcium  
12N243WC wet Calcium  
12N244WC wet Calcium  
30HL102WC wet Calcium  
30H102WC wet Calcium  
N120WC wet Calcium  
N150WC wet Calcium  
N200WC wet Calcium  
SN200L SMF  
SN200 SMF  
SN150L SMF  
SN150 SMF  
SN120L SMF  
SN120 SMF  
SN100L SMF  
SN100 SMF  
S95D31RHD SMF  
S95D31R SMF  
S95D31LHD SMF  
S95D31L SMF  
S85B60R SMF  
S85B60L SMF  
S80D26R SMF  
S80D26L SMF  
S78DT6MF SMF  
S786MF SMF  
S75D31R SMF  
S75D31L SMF  
S756MF SMF  
S755MF SMF  
S70D23R SMF  
S70D23L SMF  
S65D31R SMF  
S65D31L SMF  
S657MF SMF  
S656MF SMF  
S59218 SMF  
S58R6MF SMF  
S58828 SMF

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S58827 SMF  
S586MF SMF  
S58515 SMF  
S56821 SMF  
S56820 SMF  
S56640 SMF  
S56639 SMF  
S56638 SMF  
S56330 SMF  
S56323 SMF  
S56318 SMF  
S55D26R SMF  
S55D26L SMF  
S55D23R SMF  
S55D23L SMF  
S55B24RS SMF  
S55B24R SMF  
S55B24LS SMF  
S55B24L SMF  
S55565 SMF  
S55559 SMF  
S55523 SMF  
S55459 SMF  
S55458 SMF  
S55457 SMF  
S55414 SMF  
S54519 SMF  
S54464 SMF  
S54459 SMF  
S54317 SMF  
S54316 SMF  
S53529 SMF  
S53528 SMF  
S50D20R SMF  
S50D20L SMF  
S48D26R SMF  
S48D26L SMF  
S416MF SMF  
S40B20RSDF SMF  
S40B20RS SMF  
S40B20R SMF  
S40B20LSDF SMF  
S40B20LS SMF  
S40B20L SMF  
S356MF SMF  
S347MF SMF  
S346MF SMF  
S31901MF SMF  
S31900MF SMF  
S24R6MF SMF  
S246MF SMF  
S115D31R SMF  
S115D31L SMF  
S1111HD SMF  
S1111 SMF  
S1110HD SMF  
S1110 SMF  
M27SMF730 SMF  
M24SMF600 SMF  
HCM27SMF SMF  
HCM27LSMF SMF  
HCM24SMF SMF  
HCM24LSMF SMF  
DCM27SMF SMF  
DCM27LSMF SMF  
DCM24SMF SMF  
DCM24LSMF SMF  
AU22R530SMF SMF

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AU22530SMFDF SMF  
22F530SMFDF SMF  
22FR530SMF SMF  
22F530SMF SMF

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