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Product Name LEAD-ACID BATTERY

Classified as hazardous

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name LEAD-ACID BATTERY

Company Name ACDELCO

Address 191 Salmon Street Port Melbourne Melbourne

VIC 3207 Australia
Emergency Tel. 1800 638 556 (24hrs)

Recommended Use Electric storage battery.

2. HAZARDS IDENTIFICATION

Hazard Classified as hazardous Classification HAZARDOUS SUBSTANCE.

DANGEROUS GOODS.

Hazard classification according to the criteria of NOHSC.

Dangerous goods classification according to the Australia Dangerous Goods

Code.

Risk Phrase(s) Classified as hazardous

R20/22 Harmful by inhalation and if swallowed.

R35 Causes severe burns.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

Safety Phrase(s) S1/2 Keep locked up and out of reach of children.

S23 Do not breathe gas/fumes/vapour/spray S24/25 Avoid contact with skin and eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and

seek medical advice.

S28 After contact with skin, wash immediately with plenty of water

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection. S45 In case of accident or if you feel unwell seek medical advice immediately S61 Avoid release to the environment. Refer to special instructions/safety

data sheet.

Safety Hazards The battery is a sealed unit, however the battery may rupture and chemicals

within may be exposed. Hazards described are for situtations if exposed to

chemicals.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients Name CAS Proportion Hazard Symbol Risk Phrase

Lead (Pb, PbO2, PbSo4) 60-70 % Sulfuric Acid 25-30 % Polypropylene/PP RESIN 7-10 % PE Separator 1-2 %

4. FIRST AID MEASURES

Inhalation If inhaled, remove affected person from contaminated area. Apply artificial

respiration if not breathing. Seek medical attention.

Ingestion
Do not induce vomiting. Wash out mouth thoroughly with water. Seek immediate

medical attention.

Skin Remove all contaminated clothing. Wash gently and thoroughly with water and

non-abrasive soap for 15 minutes. Ensure contaminated clothing is washed

before re-use or discard. Seek medical attention.

Eye If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information

Centre or a doctor, or for at least 15 minutes. Seek immediate medical

attention.

 $\begin{tabular}{ll} \bf Advice\ to\ Doctor & {\tt Treat\ symptomatically.} \end{tabular}$

Other Information For advice in an emergency, contact a Poisons Information Centre (Phone



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Australia 13 1126) or a doctor at once.

5. FIRE FIGHTING MEASURES

Suitable

Hazchem Code

Use appropriate fire extinguisher for surrounding environment. If a battery ruptures, use dry chemical, sand or carbon dioxide.

Extinguishing Media
Hazards from
Combustion
Products

Under fire conditions this product may emit toxic and/or irritating fumes and gases including lead, lead compounds and sulfuric acid fumes.

Precautions in connection with Fire

Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water spray may be used to cool down heat-exposed containers. Fight fire from safe location. This product should be prevented from entering drains and watercourses.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

Corrosive material. Do not allow contact with skin and eyes. Do not breathe vapours. It is essential to wear self-contained breathing apparatus (S.C.B.A) and full personal protective equipment and clothing to prevent exposure. Increase ventilation. If possible contain the spill. Place inert absorbent material onto spillage. If necessary neutralise the residue with a dilute solution of sodium carbonate. Collect the material and place into a suitable labelled container. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Corrosive liquid. Attacks skin and eyes. Causes burns. Handle batteries cautiously to avoid spills. Wear suitable protective clothing, gloves and eye/face protection when mixing and using. Use in designated areas with adequate ventilation. Avoid breathing in vapours, mist or fumes. Keep containers closed when not in use. Ensure a high level of personal hygiene is maintained when using this product, that is, always wash hands after handling, and before eating, drinking, smoking or using the toilet facilities.

Store in a cool dry well-ventilated area. Store away from oxidising agents and

Conditions for Safe Storage

Store in a cool dry well-ventilated area. Store away from oxidising agents and bases/acids. Keep containers closed when not in use, securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Provide a catch-tank in a bunded area. Store in original packages as approved by manufacturer. For information on the design of the storeroom, reference should be made to Australian Standard AS 3780-2008: The storage and handling of corrosive substances. Reference should also be made to all State and Federal regulations.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards

No exposure value assigned for this specific material by the National Occupational Health and Safety Commission (NOHSC), Australia. However, the available exposure limits for ingredients are listed below:

National Occupational Health And Safety Commission (NOHSC), Australia Exposure Standards:

Substance	TWA		STE	STEL	
	ppm	mg/m³	ppm	mg/m³	
Sulphuric acid	-	1	_	3	_
Lead					
(inorganic dusts/fumes)	-	0.15	-	_	-
Antimony	_	0.5	-	_	_

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

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.



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Biological Limit

No biological limit allocated.

Values Engineering Controls

Provide sufficient ventilation to keep airborne levels below the exposure limits. Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a local exhaust ventilation system is

required.

Respiratory Protection If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable mist filter should be used. Reference should be made to Australian/New Zealand Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

Eye Protection Safet

Safety glasses with side shields, goggles or full-face shield as appropriate should be used. 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, such as rubber or plastic acid-resistant gloves with elbow-length gauntlet are recommended. 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

Suitable protective work wear. Acid-resistant apron, clothing and boots are recommended especially where large quantities are handled.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Sealed unit, containing off-white cloudy liquid

Odour Characteristic

Solubility in Water
Specific Gravity

PH Value

Vapour Pressure

Soluble in water

11.34 g/cm³ *

Not available

1.33 hPa *

Vapour Density

Not available

(Air=1)

Evaporation Rate Not available

Flammability
Non-flammable
Auto-Ignition
Not available

Temperature

Flammable Limits - Not available Lower

Flammable Limits -

Not available

Upper

Other Information * for Lead

10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal conditions of use.

Conditions to Avoid Prolonged overcharge, sources of ignition, mechanical impact, contact with

incompatible materials.

Incompatible If a battery ruptures, avoid contact with organic materials and alkaline

Materials materials.



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Hazardous Decomposition **Products**

Sulfuric acid: Sulfur trioxide, carbon monoxide, sulfuric acid mist, sulfur

dioxide, and hydrogen.

Lead compounds: High temperatures likely to produce toxic metal fume, vapor or dust; contact with strong acid or base or presence of nascent hydrogen may

generate highly toxic arsine gas.

Hazardous Reactions

Sulfuric acid: Contact with combustibles and organic materials may cause fire and explosion. Also reacts violently with strong reducing agents, metals, sulfur trioxide gas, strong oxidizers and water. Contact with metals may produce toxic sulfur dioxide fumes and may release flammable hydrogen gas. Lead compounds: Avoid contact with strong acids, bases, halides, halogenates, potassium nitrate, permanganate, peroxides, nascent hydrogen and reducing

agents.

Hazardous **Polymerization** Will not occur.

11. TOXICOLOGICAL INFORMATION

No toxicity data available for this product. Toxicology

Information

Harmful by inhalation. Inhalation of mists or vapours will result in Inhalation

respiratory irritation and possible harmful corrosive effects including lesions of the nasal septum, pulmonary edema, pneumonitis and emphysema. Harmful if swallowed. Ingestion of this product can cause irritation to the

Ingestion mouth, throat, oesophagus and stomach with symptoms of diarrhoea.

Ingestion of this product will cause nausea, vomiting, abdominal pain and

chemical burns to the mouth, throat and stomach.

Causes severe burns. Corrosive to the skin. Skin contact can cause redness, Skin

itching, irritation, severe pain and chemical burns with resultant tissue

destruction.

Causes severe burns. Eye contact will cause stinging, blurring, tearing, Eye

severe pain and possible permanent corneal damage. Burns to the eye may cause blindness. Contact of undiluted product with the eyes or skin quickly causes severe irritation and pain and may cause burns, necrosis and permanent injury.

The effects of lead poisoning may not be apparent immediately but significant **Chronic Effects**

absorption by inhalation or swallowing over a period of time may produce adverse effects due to the accumulation of lead in the body. Studies of humans

and animals indicate that lead may exert gametotoxic, embryotoxic, and teratogenic effects that could influence the survival and development of the fetus and newborn. It appears that prenatal viability and development may also be indirectly affected by lead through its effects on the health of the expectant mother. The unborn therefore constitutes a group at risk for the

effects of lead on health. Also, certain information regarding male

reproductive functions has led to concern regarding the impact of lead on men.

12. ECOLOGICAL INFORMATION

No ecological data are available for this material. **Ecotoxicity**

Persistence / Not available **Degradability**

Mobility Not available

Do not allow product to enter drains, waterways or sewers. **Environ. Protection**

13. DISPOSAL CONSIDERATIONS

Disposal Considerations Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes including emptied containers are controlled wastes and should be disposed of in accordance with all applicable local and

national regulations.

14. TRANSPORT INFORMATION

Transport Information This material is classified as a Class 8 (Corrosive Substances) Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).

Class 8 Dangerous Goods are incompatible in a placard load with any of the following:



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- Class 1, Explosives

- Division 4.3, Dangerous When Wet Substances

- Division 5.1, Oxidising Agents - Division 5.2, Organic Peroxides

- Class 6, Toxic or Infectious Substances, if the Class 6 dangerous goods are

cyanides and the Class 8 dangerous goods are acids

- Class 7, Radioactive Substances

and are incompatible with food and food packaging in any quantity.

Strong acids must not be loaded in the same freight container or on the same vehicle with strong alkalis. Packing Group I and II acids and alkalis should

be considered as strong.

U.N. Number 2794

Proper Shipping

BATTERIES, WET, FILLED WITH ACID

Name
DG Class
8
Hazchem Code
2R
EPG Number
8A1
IERG Number
37

15. REGULATORY INFORMATION

Regulatory Information Classified as Hazardous according to criteria of National Occupational Health

& Safety Commission (NOHSC), Australia.

Classified as a Scheduled Poison according to the Standard for the Uniform

Scheduling of Medicines and Poisons (SUSMP).

Poisons Schedule

Hazard Category

Harmful, Corrosive, Dangerous for the environment

16. OTHER INFORMATION

Date of preparation or last revision of MSDS User Codes MSDS Reviewed: March 2012 Supersedes: May 2008

User Field Title	User Code
Approval Number	5124
Part Number	12N243WC LMA
Part Number	12N244WC LMA
Part Number	22F530SMF SMF
Part Number	22F530SMFDF SMF
Part Number	22F600SMF SMF
Part Number	22F600SMFDF SMF
Part Number	22F660SMF SMF
Part Number	22F660SMFDF SMF
Part Number	22F66WC LMA
Part Number	22FR530SMF SMF
Part Number	22FR600SMF SMF
Part Number	22FR660SMF SMF
Part Number	22FR66WC LMA
Part Number	30H102WC LMA
Part Number	30HL102WC LMA
Part Number	50D20LWC LMA
Part Number	50D20RWC LMA
Part Number	55457WC LMA
Part Number	55458WC LMA
Part Number	55D23LWC LMA
Part Number	55D23RWC LMA



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User Codes	User Field Title	User Code	
	Part Number	56318WC LMA	
	Part Number	56330WC LMA	
	Part Number	56638WC LMA	
	Part Number	58515WC LMA	
	Part Number	58827WC LMA	
	Part Number	58828WC LMA	
	Part Number	60044WC LMA	
	Part Number	AU22530SMFDF SMF	
	Part Number	AU22600SMFDF SMF	
	Part Number	AU22660SMFDF SMF	
	Part Number	AU2266WC LMA	
	Part Number	AU22R530SMF SMF	
	Part Number	AU22R600SMF SMF	
	Part Number	AU22R660SMF SMF	
	Part Number	AU22R66WC LMA	
	Part Number	DCM24LSMF SMF	
	Part Number	DCM24SMF SMF	
	Part Number	DCM27LSMF SMF	
	Part Number	DCM27SMF SMF	
	Part Number	GC2105 Golf Cart	
	Part Number	HCM24LSMF SMF	
	Part Number	HCM24SMF SMF	
	Part Number	HCM27LSMF SMF	
	Part Number	HCM27SMF SMF	
	Part Number	HCM31LSMF SMF	
	Part Number	HCM31SMF SMF	
	Part Number	M24SMF600 SMF	
	Part Number	M27SMF730 SMF	
	Part Number	M31SMF830 SMF	
	Part Number	N100WC LMA	
	Part Number Part Number	N120WC LMA	
		N150WC LMA	
	Part Number	N200WC LMA	
	Part Number	NS40ZLSWC LMA	
	Part Number	NS40ZLWC LMA	
	Part Number	NS40ZSWC LMA	
	Part Number	NS40ZWC LMA	
	Part Number	NS60LSWC LMA	
	Part Number	NS60LWC LMA	
	Part Number	NS60SWC LMA	
	Part Number	NS60WC LMA	
	Part Number	NX1105LWC LMA	
	Part Number	NX1105WC LMA	
	Part Number	NX1207LWC LMA	
	Part Number	NX1207WC LMA	
	Part Number	S1110H SMF	
	Part Number	S1111H SMF	
	Part Number	S1150 SMF	
	Part Number	S1151 SMF	
	Part Number	S115D31L SMF	

CS: 1.6.8 Print Date: 16/03/2012



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User Codes	User Field Title	User Code
	Part Number	S115D31R SMF
	Part Number	S246MF SMF
	Part Number	S24R6MF SMF
	Part Number	S31900MF SMF
	Part Number	S31901MF SMF
	Part Number	S346MF SMF
	Part Number	S347MF SMF
	Part Number	S356MF SMF
	Part Number	S40B20L SMF
	Part Number	S40B20LBH SMF
	Part Number	S40B20LS SMF
	Part Number	S40B20R SMF
	Part Number	S40B20RS SMF
	Part Number	S416MF SMF
	Part Number	S48D26L SMF
	Part Number	S48D26R SMF
	Part Number	S50D20L SMF
	Part Number	S50D20R SMF
	Part Number	S53528 SMF
	Part Number	S53529 SMF
	Part Number	S54316 SMF
	Part Number	S54317 SMF
	Part Number	S54459 SMF
	Part Number	S54464 SMF
	Part Number	S54519 SMF
	Part Number	S55414 SMF
	Part Number	S55457 SMF
	Part Number	S55458 SMF
	Part Number	S55459 SMF
	Part Number	S55523 SMF
	Part Number	S55559 SMF
	Part Number	S55559HD SMF
	Part Number	S55565 SMF
	Part Number	S55B24L SMF
	Part Number	S55B24LS SMF
	Part Number	S55B24R SMF
	Part Number	S55B24RS SMF
	Part Number	S55D23L SMF
	Part Number	S55D23R SMF
	Part Number	S55D26L SMF
	Part Number	S55D26R SMF
	Part Number	S56220 SMF
	Part Number	S56318 SMF
	Part Number	S56323 SMF
	Part Number	S56330 SMF
	Part Number	S56638 SMF
	Part Number	S56640 SMF
	Part Number	S56820 SMF
	Part Number Part Number	S56821 SMF
	Part Number	S57220 SMF



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User Codes	User Field Title	User Code
	Part Number	S58014 SMF
	Part Number	S58515 SMF
	Part Number	S586MF SMF
	Part Number	S58827 SMF
	Part Number	S58828 SMF
	Part Number	S58R6MF SMF
	Part Number	S59042 SMF
	Part Number	S59218 SMF
	Part Number	S59542 SMF
	Part Number	S60038 SMF
	Part Number	S656MF SMF
	Part Number	S657MF SMF
	Part Number	S65D31L SMF
	Part Number	S65D31R SMF
	Part Number	S68032 SMF
	Part Number	S70D23L SMF
	Part Number	S70D23R SMF
	Part Number	S755MF SMF
	Part Number	S756MF SMF
	Part Number	S75D31L SMF
	Part Number	S75D31R SMF
	Part Number	S786MF SMF
	Part Number	S78DT6MF SMF
	Part Number	S80D26L SMF
	Part Number	S80D26R SMF
	Part Number	S85B60L SMF
	Part Number	S85B60R SMF
	Part Number	S95D31L SMF
	Part Number	S95D31LHD SMF
	Part Number	S95D31R SMF
	Part Number	S95D31RHD SMF
	Part Number	SN100 SMF
	Part Number	SN100L SMF
	Part Number	SN120 SMF
	Part Number	SN120L SMF
	Part Number	SN150 SMF
	Part Number	SN150L SMF
	Part Number	SN200 SMF
	Part Number	SN200L SMF
	Part Number	SU160 SMF
	Part Number	SU1R60 SMF
	End Of MSDS	

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