

## SAFETY DATA SHEET

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Product name BATTERY, WET, NON-SPILLABLE, ELECTRIC STORAGE

Synonyms AGM BATTERY • VALVE REGULATED LEAD ACID (VRLA) BATTERY

1.2 Uses and uses advised against

Uses BATTERY

Vehicle starting and energy storage batteries.

1.3 Details of the supplier of the product

Supplier name CLUB ASSIST PTY LTD

Address Level 8, 473 Bourke St, Melbourne, VIC, 3000, AUSTRALIA

**Telephone** (03) 9797 8600

Email <u>info@clubassist.com.au</u>
Website http://www.clubassist.com

1.4 Emergency telephone numbers

Emergency (AU) 13 11 26 (Poisons Information Centre)

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

## **Physical Hazards**

Not classified as a Physical Hazard

## **Health Hazards**

Acute Toxicity: Oral: Category 4 Skin Corrosion/Irritation: Category 1A Serious Eye Damage / Eye Irritation: Category 1

Germ Cell Mutagenicity: Category 2 Carcinogenicity: Category 2 Toxic to Reproduction: Category 1A

Specific Target Organ Toxicity (Repeated Exposure): Category 2

## **Environmental Hazards**

Aquatic Toxicity (Acute): Category 1 Aquatic Toxicity (Chronic): Category 1

### 2.2 GHS Label elements

Signal word DANGER

**Pictograms** 











## **Hazard statements**

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.
H341 Suspected of causing genetic defects.
H351 Suspected of causing cancer.

H351 Suspected of causing cancer.
H360Df May damage the unborn child. Suspected of damaging fertility.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

#### **Prevention statements**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

### Response statements

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing.

P310 Immediately call a POISON CENTRE or doctor/physician. P321 Specific treatment is advised - see first aid instructions.

P363 Wash contaminated clothing before reuse.

P391 Collect spillage.

### Storage statements

P405 Store locked up.

#### **Disposal statements**

P501 Dispose of contents/container in accordance with relevant regulations.

#### 2.3 Other hazards

The materials contained in this product may only represent a hazard if the integrity of the cell or battery is compromised; physically or electrically abused.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances / Mixtures

Ingredient	CAS Number	EC Number	Content
LEAD	7439-92-1	231-100-4	50 to 70%
LEAD DIOXIDE	1309-60-0	215-174-5	15 to 25%
SULPHURIC ACID	7664-93-9	231-639-5	18 to 25%
ANTIMONY	7440-36-0	231-146-5	<2%
CALCIUM HYDRIDE	7789-78-8	232-189-2	<2%
TIN	7440-31-5	231-141-8	<2%
ARSENIC	7440-38-2	231-148-6	<0.02%
NON HAZARDOUS INGREDIENTS	Not Available	Not Available	Remainder

## 4. FIRST AID MEASURES

## 4.1 Description of first aid measures

Eye Exposure to contents: If in eyes, hold eyelids apart and flush continuously with running water. Continue

flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.

Inhalation Exposure to contents: If inhaled, remove from contaminated area. To protect rescuer, use a Type B

(Inorganic and acid gas) respirator where an inhalation risk exists. Apply artificial respiration if not breathing.

Skin Exposure to contents: If skin or hair contact occurs, remove contaminated clothing and flush skin and hair

with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a



doctor.

Ingestion For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If

swallowed, do not induce vomiting.

## 4.2 Most important symptoms and effects, both acute and delayed

The electrolyte is corrosive and may cause irritation or severe chemicals burns. Lead is a cumulative poison and has the potential to cause chronic health effects. Chronic exposure may result in blood, kidney and central nervous system/brain damage. Lead is classified as possibly carcinogenic to humans (IARC Group 2B). May cause harm to the unborn child. Possible risk of impaired fertility.

#### 4.3 Immediate medical attention and special treatment needed

Treat symptomatically.

### 5. FIRE FIGHTING MEASURES

#### 5.1 Extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

### 5.2 Special hazards arising from the substance or mixture

Non flammable. Liquid component may evolve flammable hydrogen gas upon contact with metals. The potential for fire - explosion does exist through short circuit of terminals.

## 5.3 Advice for firefighters

Treat as per requirements for surrounding fires. Evacuate area and contact emergency services. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

#### 5.4 Hazchem code

2R

2 Fine Water Spray.

R Wear liquid-tight chemical protective clothing and breathing apparatus. Dilute spill and run-off.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. Contact emergency services where appropriate.

## **6.2 Environmental precautions**

Prevent product from entering drains and waterways.

## 6.3 Methods of cleaning up

Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, sand, or similar), collect and place in suitable containers for disposal.

#### 6.4 Reference to other sections

See Sections 8 and 13 for exposure controls and disposal.

## 7. HANDLING AND STORAGE

## 7.1 Precautions for safe handling

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

## 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area, removed from incompatible substances, heat or ignition sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Check regularly for leaks or spills. Large storage areas should have appropriate ventilation systems.

## 7.3 Specific end uses

No information provided.



## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

## 8.1 Control parameters

### **Exposure standards**

Ingredient	Reference	TWA		STEL	
	Reference	ppm	mg/m³	ppm	mg/m³
Antimony & compounds (as Sb)	SWA [AUS]		0.5		
Arsenic & soluble compounds	SWA [Proposed]		0.01		
Arsenic & soluble compounds (as As)	SWA [AUS]		0.05		
Lead, inorganic dusts & fumes (as Pb)	SWA [AUS]		0.05		
Sulphuric acid	SWA [AUS]		1		3
Sulphuric acid	SWA [Proposed]		0.1		
Tin, metal	SWA [AUS]		2		

## **Biological limits**

Ingredient	Determinant	Sampling Time	BEI
ARSENIC	Inorganic arsenic plus methylated metabolites in urine	End of workweek	35 μg As/L
LEAD	Lead in blood	Not critical	200 μg/L
	Lead in blood (women of child bearing potential)	Not critical	10 μg/100ml
	Lead in blood	Not critical	30 μg/dL
	Lead in blood (women of child bearing potential)	Not critical	10 μg/dL

Reference: ACGIH Biological Exposure Indices

### 8.2 Exposure controls

Engineering controls Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction

ventilation is recommended.

PPE

Eye / Face Wear safety glasses.

**Hands** Wear PVC or rubber gloves.

**Body** Not required under normal conditions of use.

**Respiratory** Where an inhalation risk exists, wear a Type B (acid gas and vapours) respirator.









## 9. PHYSICAL AND CHEMICAL PROPERTIES

## 9.1 Information on basic physical and chemical properties

AppearanceBATTERYOdourSLIGHT ODOURFlammabilityNON FLAMMABLEFlash pointNOT RELEVANT

**Boiling point** 110°C to 115°C (Electrolyte)

**Melting point** NOT AVAILABLE **Evaporation rate** NOT AVAILABLE pН < 1 (Electrolyte) Vapour density NOT AVAILABLE Relative density 1.28 (Electrolyte) Solubility (water) SOLUBLE Vapour pressure **NOT AVAILABLE Upper explosion limit NOT RELEVANT** Lower explosion limit **NOT RELEVANT** 

**CLUB** SSIST

#### 9.1 Information on basic physical and chemical properties

Partition coefficient
Autoignition temperature
Decomposition temperature
Viscosity
Explosive properties
Oxidising properties
Odour threshold
NOT AVAILABLE
NOT AVAILABLE
NOT AVAILABLE
NOT AVAILABLE
NOT AVAILABLE

## 10. STABILITY AND REACTIVITY

#### 10.1 Reactivity

Carefully review all information provided in sections 10.2 to 10.6.

#### 10.2 Chemical stability

Stable under recommended conditions of storage.

#### 10.3 Possibility of hazardous reactions

Hazardous polymerisation is not expected to occur.

### 10.4 Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources.

#### 10.5 Incompatible materials

Incompatible with oxidising agents (e.g. hypochlorites), alkalis (e.g. sodium hydroxide), heat and ignition sources.

### 10.6 Hazardous decomposition products

May evolve toxic gases if heated to decomposition.

## 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

**Acute toxicity** 

Exposure to battery contents may result in severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach. Contents are expected to be toxic if inhaled and harmful if swallowed.

## Information available for the ingredients:

Ingredient	Oral LD50	Dermal LD50	Inhalation LC50
LEAD	50 mg/kg to 600 mg/kg (calf)		
SULPHURIC ACID	2140 mg/kg (rat)		18 mg/m³ (guinea pig); 510 mg/m3/2hrs (rat)
ARSENIC	145 mg/kg (mice)		

Skin Due to product encapsulation, the potential for skin contact with contents is reduced. If the container is damaged, contact may result in irritation, redness, pain, rash, dermatitis and possible burns. Effects may be

delayed.

Eye Due to product encapsulation, the potential for eye contact with contents is reduced. If the container is

damaged, direct contact may result in irritation, lacrimation and burns.

**Sensitisation** Not classified as causing skin or respiratory sensitisation.

Mutagenicity Due to product encapsulation, the potential for exposure to the contents is reduced. Lead is suspected of

causing genetic defects.

**Carcinogenicity**Due to product encapsulation, the potential for exposure to the contents is reduced. Occupational exposure to strong inorganic acid mists containing sulphuric acid is classified as carcinogenic to humans (IARC Group

1). Lead compounds (inorganic) are classified as probably carcinogenic to humans (IARC Group 2A).

**Reproductive**Due to product encapsulation, the potential for exposure to the contents is reduced. Exposure to high levels

of lead and its compounds may cause adverse effects on male and female fertility, including adverse effects on sperm quality. Prenatal exposure to lead and its compounds is also associated with adverse effects on

neurobehavioral development in children.

STOT - single exposure

Due to product encapsulation, the potential for exposure is unlikely. If the container is damaged, inhalation may result in mucous membrane irritation of the respiratory tract, coughing and inflammation. High level

exposure may result in ulceration of the respiratory tract and lung tissue damage.

STOT - repeated Due to product encapsulation, the potential for exposure to the contents is reduced. Lead is a cumulative



poison and may be absorbed into the body through ingestion or inhalation. Lead has been documented in exposure

observational human studies to produce toxicity in multiple organ systems and body function including the haematopoietic (blood) system, kidney function, reproductive function and the central nervous system.

Not classified as causing aspiration. **Aspiration** 

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

Very toxic to aquatic life with long lasting effects. Lead is potentially toxic to all aquatic organisms, with organic lead compounds tending to be more toxic than inorganic lead compounds. Toxicity to aquatic organisms increases in acidic or soft water. Sulphuric acid is harmful to aquatic life in very low concentrations due to pH shift. May cause corrosion and deterioration of many common materials found in the environment (eg steel, limestone).

#### 12.2 Persistence and degradability

Inorganic lead does not degrade. Sulphuric acid is not expected to persist in the environment.

### 12.3 Bioaccumulative potential

Lead bioconcentrates and bioaccumulates in both aquatic and terrestrial organisms. Sulphuric acid is not anticipated to accumulate in living tissues.

### 12.4 Mobility in soil

Lead is sparingly soluble and is expected to be adsorbed onto soils and sediments. Mobility is expected to be low. Sulphuric acid is miscible with water and its dilution will increase the velocity of downward movement in the soil where it may dissolve the soil material.

## 12.5 Other adverse effects

No information provided.

## 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

Waste disposal This product is recyclable. Please return to manufacturer. Contact the manufacturer/supplier for additional

information (if required).

Legislation Dispose of in accordance with relevant local legislation.

## 14. TRANSPORT INFORMATION

# CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE





	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG / IMO)	AIR TRANSPORT (IATA / ICAO)
14.1 UN Number	2800	2800	2800
14.2 Proper Shipping Name	BATTERIES, WET, NON-SPILLABLE, electric storage	BATTERIES, WET, NON-SPILLABLE, electric storage	BATTERIES, WET, NON-SPILLABLE, electric storage
14.3 Transport hazard class	8	8	8
14.4 Packing Group	None allocated.	None allocated.	None allocated.

## 14.5 Environmental hazards

Marine Pollutant.

## 14.6 Special precautions for user

Hazchem code **GTEPG** 8A1 **EmS** F-A. S-B

Other information The environmentally hazardous substance mark is not required when transported in packages of less

than 5 kg/L (UN Model Regulations: Special Provision 375; IATA: Special Provision A197; IMDG:



Special Provision 969) or less than 500 kg/L by Australian Road and Rail.

Special Provision 238: Non-spillable batteries are not subject to the Australian Dangerous Goods Code if, at a temperature of 55°C, the electrolyte will not flow from a ruptured or cracked case and there is no free liquid to flow and if, when packaged for transport, the terminals are protected from short circuit.

## 15. REGULATORY INFORMATION

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Poison schedule A poison schedule number has not been allocated to this product using the criteria in the Standard for the

Uniform Scheduling of Medicines and Poisons (SUSMP).

Classifications Safe Work Australia criteria is based on the Globally Harmonised System (GHS) of Classification and

Labelling of Chemicals (GHS Revision 7).

Inventory listings AUSTRALIA: AllC (Australian Inventory of Industrial Chemicals)

All components are listed on AIIC, or are exempt.

**EUROPE: EINECS (European Inventory of Existing Chemical Substances)** 

All components are listed on EINECS, or are exempt. KOREA: KECI (Existing Chemicals Inventory)

All components are listed on the Korean inventory, or are exempt.

### 16. OTHER INFORMATION

#### Additional information

**DOCUMENT NUMBER: CA-SDS-02** 

RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

ACIDS: When mixing acids with water (diluting), caution must be taken as heat will be generated which causes violent spattering. Always add a small volume of acid to a large volume of water, NEVER the reverse.

## PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as form of product, method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

## **HEALTH EFFECTS FROM EXPOSURE:**

It should be noted that the effects from exposure to this product will depend on several factors including: form of product; frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.



Abbreviations ACGIH American Conference of Governmental Industrial Hygienists

CAS # Chemical Abstract Service number - used to uniquely identify chemical compounds

CNS Central Nervous System

EC No. EC No - European Community Number

EMS Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous

Goods)

GHS Globally Harmonized System

GTEPG Group Text Emergency Procedure Guide IARC International Agency for Research on Cancer

LC50 Lethal Concentration, 50% / Median Lethal Concentration

LD50 Lethal Dose, 50% / Median Lethal Dose

mg/m³ Milligrams per Cubic Metre
OEL Occupational Exposure Limit

pH relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly

alkaline).

ppm Parts Per Million

STEL Short-Term Exposure Limit

STOT-RE Specific target organ toxicity (repeated exposure)
STOT-SE Specific target organ toxicity (single exposure)

SUSMP Standard for the Uniform Scheduling of Medicines and Poisons

SWA Safe Work Australia
TLV Threshold Limit Value
TWA Time Weighted Average

### Report status

This document has been compiled by RMT on behalf of the manufacturer, importer or supplier of the product and serves as their Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer, importer or supplier or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer, importer or supplier.

While RMT has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

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[ End of SDS ]



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