

# Material Safety Data Sheet



## SEALED LEAD ACID STORAGE BATTERIES UN 2800

**Issue Date** March 2005

**Status** ISSUED by DJB

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### COMPANY DETAILS

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<b>Company Name</b>	Battery Energy Power Solutions Pty Ltd (ABN 83 003 325 139)
<b>Address</b>	96 Fairfield Street FAIRFIELD NSW 2165, Australia
<b>Emergency Tel.</b>	1800 819 829
<b>Tel/Fax</b>	Tel: 61 2 9681 3633 Fax: 61 2 9632 4622
<b>Other Information</b>	Victorian Branch 21 Aristoc Road GLEN WAVERLEY VIC 3150 Emergency Tel: 1800 819 829 Tel: (03) 9550 1892 Fax: (03) 9550 1893 Queensland Branch 54 Jephson Street TOOWONG QLD 4066 Emergency Tel: 1800 819 829 Tel: (07) 3371 1622 Fax: (07) 3371 1655

# MSDS: SEALED LEAD ACID STORAGE BATTERIES

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## IDENTIFICATION

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**Product Name** Marinegel  
**Proper Shipping Name** Marinegel  
**Manufacturer's Code** As listed below

### Physical Details of Batteries

B.E. Classification	Dimensions			Mass
	L	W	H	
4 MG 130	109	184	265	15
6 MG 200	184	276	265	38
2 MG 250	109	184	265	15
4 MG 310	184	276	265	38
2 MG 450	184	187	265	26
2 MG 650	184	276	265	40
2 MG 1000	145	206	680	58
2 MG 1350	210	191	680	76
2 MG 2000	210	275	680	107

**UN Number** 2800  
**DG Class** Class 8 SP 238 Subsidiary Class 6.1 (a)  
**Packing Group** 111 (EPG 8A1)  
**Hazchem Code** 4Y (black on white) E  
**Poisons**  
**Schedule** Not Scheduled  
**Product Use** Sealed lead acid batteries for use in standby and solar/remote area applications.

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## Physical Data

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**Boiling Point** N/A  
**Vapour Pressure** N/A  
**Vapour Density** N/A  
**Solubility In Water** N/A  
**Appearance and Odour** N/A  
**Specific gravity** 1.260kg per cubic metre. High rate units may contain 1.300kg per cubic metre  
**Percentage Volatile by Volume** N/A  
**Evaporation Rate** N/A

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## Flammability Data

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<b>Flashpoint</b>	N/A
<b>Flammable Limits</b>	Hydrogen Lower explosive limit 4% Upper explosive limit 74%
<b>Unusual Fire &amp; Explosion Hazards</b>	Will generate hydrogen and sulphuric acid mist on overcharge. Case material is ABS fire resistant acrylonitrile butadiene styrene and will give off copious amounts of black sooty smoke when ignited in a major fire.

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## Ingredients

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Ingredients Chemical Entity (of grids)	%by Weight	TWA's (mg/m3)	CAS No.
Lead (or compounds)	70-75%	0.5	
Tin	<0.5%		
Silica	<2.0%		
Copper	<1.0%		
Sulphuric Acid	20-30%	1	7664939
Plastic battery case			

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## HEALTH HAZARD INFORMATION

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### Health Effects

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**Acute –** There is no possibility of exposure to lead, etc. unless the battery is destroyed. Sulphuric acid mist causes coughing and will burn eyes and skin.

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### First Aid

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**Swallowed** Drink copious amounts of water  
**Acute – Eye** Wash immediately with water for 15 minutes – call a doctor  
**Acute – Skin** Wash immediately with water

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## PRECAUTIONS FOR USE

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### Personal Protection

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**Personal Protection** Acid resistant clothing, made with Neoprene or PVC is recommended, including gloves and aprons. Splash-proof chemical safety goggles or a face shield should be worn for eye and face protection when working with cells. Appropriate respiratory protection should be worn when mist (e.g. following excessive overcharge) exceeds permissible limits.

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**SAFE HANDLING INFORMATION**

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**Storage and Transport**

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**Storage  
Precautions**

Keep inside a well ventilated building at moderate temperatures.

**Transport  
Handling**

During transport, the batteries are kept in wooden or cardboard/polystyrene packaging. Considerable care should be exercised when handling the batteries due to their weight and the relative fragility of the case. When lifting individual cells the terminals must NOT be used. When supplied, plastic strings should be employed.

**Transport**

Battery Energy sealed gel products are classified in Australia as non dangerous goods for road transport. For air transport, they are classified as suitable under IATA Dangerous goods regulation Special Provision clause A 67.

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**Spills and Disposal**

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**Spills & Leaks  
Disposal**

Wash with water and neutralize with sodium carbonate or bicarbonate.

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**Special Precautions**

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**Special  
Precautions**

Keep away from sources of ignition during and immediately following charge. Use insulated tools when working with cells. In confined areas place the shroud cover on the intercell connections or on the cell top as soon as is practicable.

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**Fire/Explosion Hazard**

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**Fire/Explos.  
Hazard**

Not applicable

**Fire Fighting  
Procedures  
Extinguishing  
Media**

LEL = 4.1% (Hydrogen gas in air)  
U<sub>2</sub>EL = 74.2%  
CO<sub>2</sub> : foam, dry chemical

**Hazardous  
Reaction**

Sulphuric acid is water-reactive if concentrated

**Hazchem Code**

4Y (black on white) E

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**CONTACT POINT**

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**Contact**

Australia: Business Hours: Dr David Brown  
Telephone: (02) 9681 3633  
After Hours: 1800 819 829 or (02) 9680 1183

**IMPORTANT ADVICE:**

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including its use in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact Battery Energy Power Solutions Pty Ltd. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

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**End of MSDS**

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