

Material Safety Data Sheet



SEALED LEAD ACID STORAGE BATTERIES UN 2800

Issue Date March 2005

Status ISSUED by DJB

COMPANY DETAILS

Company Name	Battery Energy Power Solutions Pty Ltd (ABN 83 003 325 139)
Address	96 Fairfield Street FAIRFIELD NSW 2165, Australia.
Emergency Tel.	1800 819 829
Tel/Fax	Tel: 61 2 9681 3633 Fax: 61 2 9632 4622
Other Information	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

IDENTIFICATION

Product Name Sungel
Shipping Name Sungel
Manufacturer Code As listed below

Physical Details of Batteries

B.E. Classification	Dimensions			Mass
	L	W	H	
4SG110	109	184	265	13.5
6SG150	276	184	265	28
6SG200	276	184	265	32.5
2SG250	109	184	265	13
4SG320	276	184	265	38
2SG450	184	197	265	23
2SG650	184	276	265	32
2SG875	145	206	680	49
2SG1000	145	206	680	54
2SG1200	210	191	680	64
2SG1400	210	191	680	71
2SG1750	210	275	680	87
2SG2000	210	275	680	103
2SG2600	212	487	680	138
2SG3000	212	487	680	152
2SG3750	212	487	680	188
2SG4500	212	576	680	220

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.

Physical Data

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

Flashpoint	N/A
Flammable Limits	Hydrogen Lower explosive limit 4% Upper explosive limit 74%
Unusual Fire & Explosion Hazards	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.

Ingredients

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			

HEALTH HAZARD INFORMATION

Health Effects

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

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

PRECAUTIONS FOR USE

Personal Protection

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

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.

Spills and Disposal

Spills & Leaks Disposal	Wash with water and neutralize with sodium carbonate or bicarbonate.
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Special Precautions

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

Fire/Explos. Hazard	Not applicable
Fire Fighting Procedures	LEL = 4.1% (Hydrogen gas in air) U ₂ EL = 74.2%
Extinguishing Media	CO ₂ : foam, dry chemical
Hazardous Reaction	Sulphuric acid is water-reactive if concentrated
Hazchem Code	4Y (black on white) E

CONTACT POINT

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
