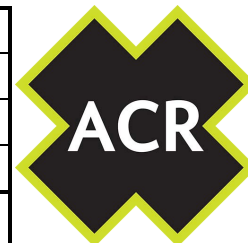


Product Safety Data Sheet	Document No.	
	Issue	01.00
	Date Last Amended	December 2011
	Last Amended by	DCS
Document Title	TB6V Alkaline Test Battery PSDS	



Product Name: SafeSea Lithium Battery Module	Type №: TB6V / 1063
For use with: SafeSea V100 / ACR SR203 GMDSS VHF handheld radio	
Chemistry: LiFeS ₂	Total Weight: 195g Nominal Voltage: 9V
Construction: Alkaline test battery pack containing six AA alkaline cells in series.	

Section 1 – Manufacturer Information

Manufactured by: Ocean Signal Ltd., Unit 4, Ocivan Way, Margate, Kent, CT9 4NN, United Kingdom

Telephone number: +44 (0)1843 282930

Section 2 – Hazards Identification

This battery module is a sealed unit. In this condition there are no hazards identified. Should the battery be damaged to cause leakage of the cell contents, the following hazards should be noted.

Ingestion: Swallowing the contents of a damaged battery can be harmful. Contents of an open battery can cause serious burns of mouth, oesophagus and gastrointestinal tract.

Inhalation: Contents of a damaged battery can cause respiratory irritation.

Skin Contact: Contents of a damaged battery can cause skin irritation and/or chemical burns.

Eye Contact: Contents of a damaged battery can cause severe irritation and chemical burns.

Section 3 – Ingredients

Important Note: This battery module should not be opened or burned. Exposure to the contents contained within or their combustion products may be harmful.

Material or Ingredient	PEL (OSHA)	TLV (ACGIH)	%/wt.
Graphite (CAS# 7782-42-5)	15mg/m ³ TWA (total dust) 5mg/m ³ TWA (respirable fraction)	2mg/m ³ TWA (respirable fraction)	2-4
Manganese Dioxide (CAS# 1313-13-9)	5mg/m ³ Ceiling (as Mn)	0.2mg/m ³ TWA (as Mn)	20-32
Potassium Hydroxide (CAS# 1310-58-3)	None established	2mg/m ³ Ceiling	3-5
Zinc (CAS# 7440-66-6)	15mg/m ³ TWA PNOR ¹ (total dust) 5mg/m ³ TWA PNOR ¹ (respirable fraction)	10mg/m ³ TWA PNOC ² (inhalable particulate) 3mg/m ³ TWA PNOC ² (respirable particulate)	8-18

¹ **PNOR:** Particulate Not Otherwise Regulated

² **PNOC:** Particulates Not Otherwise Regulated

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Material or Ingredient	PEL (OSHA)	TLV (ACGIH)	%/wt.
Non Hazardous Components			
Steel (CAS#7439-89-6)	None Established	None Established	<15%
Water, Plastic and other	None Established	None Established	Remainder

Section 4 – First Aid Measures

The following advice applies only to damaged battery packs that are leaking.

- Ingestion:** Seek medical advice. Do not induce vomiting or give food or drink.
- Inhalation:** Seek medical attention. Provide fresh air
- Skin Contact:** Remove any contaminated clothing and wash affected areas with soap and water. Seek medical attention if chemical burns or irritation persists.
- Eye Contact:** Seek medical attention. Immediately flush eyes with water for a minimum of 15minutes. Ensure that both upper and lower eyelids are lifted during the flushing process.

Section 5 – Fire Fighting Measures

In case of fire it is permissible to use any class of extinguishing medium on these batteries or their packing material. If exposed to fire, keep exterior of batteries cool to avoid rupture.

Fire responders should wear self contained breathing apparatus.

Section 6 - Accidental Release Measures

Should batteries leak the following actions are recommended.

- Ventilation:** Keep room containing open or leaking batteries well ventilated
- Eye protection:** Wear safety glasses with side shields when handling open or leaking batteries
- Gloves:** Neoprene or natural rubber gloves should be worn when handling leaking batteries
- Storage:** Leaking batteries should be stored in a leak proof container

Section 7 – Handling and Storage

- Storage:** Store in a cool, well ventilated area. Elevated temperature may result in shortened battery life.
- Handling:** Avoid accidentally short circuiting batteries. Prolonged short circuiting cause the battery temperature to rise and significantly reduce battery life.
- Charging:** These batteries are not designed for charging. Do not attempt to recharge the battery. Recharging may result in cell venting or rupture.

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Section 8 – Exposure Controls / Personal Protection

No special requirements are required for this battery under normal circumstances.

Section 9 – Physical and Chemical Properties

Boiling Point at 760mm Hg (°C)	Not applicable for this item
Vapour Pressure (mm Hg at 25°C)	Not applicable for this item
Vapour Density	Not applicable for this item
Density (g/cm ³)	2.0 – 3.0
Percent volatile by volume (%)	Not applicable for this item
Evaporation Rate	Not applicable for this item
Physical State	Solid
Solubility in water	Not applicable for this item
pH	Not applicable for this item
Appearance and odour	Solid object / no odour

Section 10 – Stability and Reactivity

No stability or reactivity issues identified

Section 11 – Toxicological Information

This battery module is not classified as hazardous waste. This battery module has been manufactured in accordance with the EU ROHS directive, 2002-95-EC.

Section 12 – Ecological Information

No ecological issues have been identified for this battery

Section 13 – Disposal Considerations

Dispose of battery module in accordance with applicable local regulations

Section 14 – Transport Information

These batteries are not subject to the dangerous goods regulations for transport by road, sea or air, but when packing for transport, ensure that batteries are packed to avoid the potential for short circuits, using strong outer packaging.

Note: for Air transport special provision of the IATA regulation applies. In the US, 49 CFR 172.102 provision 130 applies.

Section 15 Regulatory Information

No additional regulatory requirements are identified for this battery module.

Section 16 – Other

No information.

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