

## PRODUCT SAFETY DATA SHEET

### PRODUCTS: L8S / L12B / L30A / L37

#### SECTION 1: IDENTIFICATION

<b>PRODUCT NAME</b>	Marine Safety Light Systems (AgCl / Mg Cells) L8S / L12B / L30A / L37 Mainly used for lifejacket and specialised submarine escape hatch systems.
<b>MANUFACTURERS NAME</b>	<b>DANIAMANT LIMITED</b>
<b>ADDRESS TELEPHONE NO. FAX NO.</b>	Unit 3, The Admiral Park, Airport Service Road, Portsmouth, Hants. PO3 5RQ UK +44 (0) 23 9267 5100 (Switchboard) +44 (0) 23 9267 5101 (Fax)
<b>EMERGENCY NOS.</b>	<b>FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE EXPOSURE OR ACCIDENT CALL CHEMTREC DAY OR NIGHT:</b>  <b>00 1 703 527 3887 (SHIPMENT TO AND FROM USA) (CHEMTREC OFFICE)</b>  <b>800 424 9300 (INTERNAL N.AMERICA MOVEMENTS) (CHEMTREC OFFICE)</b>  <b>D806 CHEMTREC COMPANY CODE 205617 COMPANY NUMBER</b>
<b>DESCRIPTION</b>	Silver Chloride / Magnesium plate marine safety light systems are constructed using the two metals in a 'sandwich' wet cell configuration. Fresh or sea water is used as an electrolyte which flows into the plastic case when thin membranes are broken. All are generally supplied with lead and lamp housings. They are designed to be stored for up to five years, and then replaced, if not used. The cells are hermetically sealed. The sea cell is protected from the external environment by a moulded plastic casing. All generally have a lanyard / ripcord must be tugged sharply to activate the cell when in water. In the supplied state the units constitute no definable hazard to health. However, disassembly, abuse or destruction of the cell will expose the contents and the following Health and Safety Hazards.

#### SECTION 2: INFORMATION OF INGREDIENTS

HAZARDOUS COMPONENTS:					
	CAS NUMBER	EC Number	% OPTIONAL	OSHA/PEL	ACGIH TLV 5 TEL
<b>Silver Chloride Plate Containing:</b>					
<b>Silver Chloride (AgCl)</b>	7783-90-6	232-033-3	>99%	N/A	N/A
<b>Magnesium Plate Containing:</b>					
<b>Magnesium (Mg)</b>	7439-95-4	231-104-6	>90%	N/A	N/A
<b>Aluminium (Al)</b>	7429-90-5	231-072-3	5-7%	N/A	N/A
<b>Tin (Sn)</b>	7440-31-5	231-141-8	0-1%	N/A	N/A
<b>Zinc (Zn)</b>	7440-66-6	231-175-3	0-1%	N/A	N/A

<b>Manganese (Mn)</b>	7439-96-5	231-105-1	<0.3%	N/A	N/A
<p>Reference : Sax's dangerous properties of industrial materials.</p> <p>NOTE: These products do not contain asbestos.</p>					

### SECTION 3: HAZARD IDENTIFICATION

<b>SILVER CHLORIDE:</b>	A solid, odourless, tasteless silver coloured plate. Not hazardous in supplied state.		
<b>MAGNESIUM:</b>	A solid odourless, silver grey coloured metal plate. Not hazardous in supplied state.		
<b>ROUTES FOR ENTRY:</b>	Both <u>Silver Chloride</u> and <u>Magnesium</u>		
	<b>Inhalation:</b> Yes	<b>Skin:</b> Yes	<b>Ingestion:</b> Yes

### HEALTH HAZARDS (ACUTE & CHRONIC)

<b>Carcinogenicity:</b>	None
<b>Signs and Symptoms of Exposure:</b>	None
<b>Medical Conditions:</b>	None
<b>Emergency and First Aid Procedures:</b>	None

### SECTION 4: FIRST AID MEASURES

In the unlikely event of the battery becoming damaged the user may come into contact with the above components.

<b>EYES:</b>	Mechanical injury only.
<b>INHALATION:</b>	Magnesium dust may be a problem. Will cause irritation to the upper respiratory tract.
<b>SKIN:</b>	No known effects.
<b>INGESTION:</b>	No known effects.
	Other materials are inert or have low hazard associated with their exposure.

### SECTION 5: FIRE FIGHTING MEASURES

In the case where significant quantities of Silver Chloride/Magnesium batteries have been involved in a fire, account must be taken of the possibility that flammable gases might be evolved should water come into contact with the Magnesium. These gases include Hydrogen. It is recommended that ventilation should be maximised should this scenario be realised.

<b>Flash Point:</b>	Battery materials are NON-FLAMMABLE. (Open flame)
<b>Extinguishing Media:</b>	Smother burning Magnesium by covering with an extinguishing powder approved for use on Magnesium fires. DO NOT USE WATER.

<b>Special Fire Fighting Procedures:</b>	When heated in air to a temperature near its melting point, Magnesium may ignite and burn with a white flame. Use of water on burning Magnesium will produce Hydrogen gas.
<b>Unusual Fire and Explosion Hazards:</b>	None.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

Dispose of cell in accordance with local, state, and federal environmental regulations.

## SECTION 7: HANDLING AND STORAGE

Handle and store in cool, dry well-ventilated area. Keep out of direct sunlight and away from heat sources. Ensure lanyard / ripcord is not accidentally pulled. Keep in original package / box until installation.

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

None known.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE</b>	Light in a plastic housing, sometimes with an attached lead and lamp.
<b>STABILITY IN WATER</b>	Product is waterproof.
<b>REACTION WITH WATER</b>	Only if damaged. DO NOT USE IF CASE IS DAMAGED.
<b>BOILING POINT</b>	N/A
<b>VAPOUR PRESSURE mm/hg</b>	N/A
<b>VAPOUR DENSITY</b>	N/A
<b>SOLUBILITY IN WATER</b>	Not soluble in water
<b>APPEARANCE &amp; ODOUR</b>	N/A
<b>SPECIFIC GRAVITY</b>	N/A
<b>MELTING POINT</b>	190°C Plastic Case
<b>EVAPORATION POINT</b>	N/A

## SECTION 10: STABILITY AND REACTIVITY

<b>HAZARDOUS REACTIONS</b>	Magnesium is flammable when raised to melting point.
<b>HAZARDOUS DECOMPOSITION REACTIONS</b>	Toxic fumes from plastic case if burnt.

## SECTION 11: TOXICOLOGICAL INFORMATION

<b>SIGNS &amp; SYMPTOMS</b>	None.
<b>INHALATION</b>	Dust inhalation will cause irritation to upper respiratory tract.
<b>SKIN CONTACT</b>	None.
<b>EYE CONTACT</b>	Mechanical damage only.

<b>INGESTION</b>	None.
<b>MEDICAL CONDITIONS</b>	None.
<b>GENERALLY AGGREGATED BY EXPOSURE.</b>	None.

## SECTION 12: ECOLOGICAL INFORMATION

<b>MAMMALIAN EFFECTS</b>	None known if used / disposed of correctly.
<b>ECO-TOXICITY</b>	None known if used / disposed of correctly.
<b>BIOACCUMULATION POTENTIAL</b>	None known if used / disposed of correctly.
<b>ENVIRONMENTAL FATE</b>	None known if used / disposed of correctly.

## SECTION 13: DISPOSAL

<b>DISPOSAL</b>	Only through a recognised disposer DO NOT ATTEMPT TO DISMANTLE THIS PRODUCT.
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## SECTION 14: TRANSPORT INFORMATION

<b>UN Hazard Code</b>	None.
<b>UN Number</b>	None.
<b>UN Name</b>	None.
<b>Packing Group</b>	None.

## SECTION 15: REGULATORY INFORMATION

<b>Classification</b>	Not controlled under ADNR (Europe)
<b>Hazard Symbol</b>	None.
<b>Risk Phrases</b>	This product is not classified according to the EU regulations.

## SECTION 16: OTHER INFORMATION

	N/A
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The above information is given based on the present state of our knowledge of this product and is, to the best of our knowledge and belief, accurate at the time of publication. No warranty given, either express or implied, with respect to the accuracy, reliability or completeness of the information contained herein and we will assume no liability resulting from its use. The users must satisfy themselves that the information provided is entirely suitable for their particular use.

**25 March 2021**