

MATERIAL SAFETY DATA SHEET Products: L90

SECTION 1: IDENTIFICATION.

SECTION 1. IDENTIFICATION.			
Product Name	Marine safety light systems. L90		
Manufacturers Name	Daniamant Limited		
Address Telephone No Fax	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)		
Emergency Nos.	FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE or ACCIDENT CALL CHEMTREC Day or Night 00 1 703-527-3887 (Shipment to and from USA) (Chemtrec Office.) 800-424-9300 (Internal N. America movements) (Chemtrec Office		
	D806 Chemtrec Company Code 205617 Company Number		
Description	Alkaline cell powered marine safety light system. The battery cells are hermetically sealed pressurised primary Alkaline Manganese Dioxide and as supplied are protected from external environment by a moulded plastic casing. In this state the units constitute no definable hazard to health. However disassembly, abuse or destruction of the battery cell will expose the contents and the following Health and Safety Hazards.		
SECTION 2: INFORMATION OF INGREDIENTS.			
HAZARDOUS COMPONENTS:			
	CAS NUMBER % optional		
0	313-13-9 35-40%		
	7440-66-6 10-25%		
Potassium Hydroxide (35%)	310-58-3 5-10%		
SECTION 3: HAZARD IDENTIFICATION.			
Critical hazards to man:	If battery leaking, exposure to caustic ingredients may occur. ment: Dispose of battery properly (see Section 13). Contains mercury compounds which may present a hazard to aquatic environments Keep batteries away from small children.		
SECTION 4: FIRST AID MEASURES.			
CLOTION 4. TINGTAID MEAS			
In the unlikely event of the battery becoming damaged the user may come into contact with the above components.			
General advice: These chemicals and metals are contained in a sealed can. Potential for exposure should nor exist unless the battery leaks, is exposed to high temperatures or is mechanically, physically, or electrically abused. Contains concentrated (35%) potassium hydroxide, which is caustic. Anticipated potential leakage of potassium hydroxide is 2 to 20 ml, depending on battery size A similar amount of zinc/zinc oxide may also leak.			
inhaled: Respiratory and eye irritation may occur if fumes are released due to heat or an abundance o leaking batteries. Remove to fresh air. Contact physician if irritation persists.			

	Irritation, including caustic burns/injury, may occur following exposure to a leaking battery. Irrigate exposed skin with copious amounts of clear, tepid water for at least 15 minutes. If irritation, injury or pain persists, consult a physician.	
On contact with eyes:	 Irritation, including caustic burns/injury, may occur following exposure to a leaking battery. If battery is leaking and material contacts eyes, flush with copious amounts of clear, tepid water for 30 minutes. Contact physician at once. 	
On ingestion:	Not anticipated due to size of batteries; choking may occur with the smaller AAA battery. Irritation, including caustic burns/injury, may occur following exposure to a leaking battery. Rinse the mouth and surrounding area with clear, tepid water for at least 15 minutes. Consult a physician immediately for treatment and to rule out involvement of the oesophagus and other tissues.	
	The primary acutely toxic ingredient is concentrated (35%) potassium hydroxide. Anticipated potential leakage of potassium hydroxide is 2 to 20 ml, depending on battery size.	
	Other materials are either inert or have low hazard associated with their exposure.	
SECTION 5: FIRE FIG	HTING MEASURES.	
Extinguishing Media:As appropriate for adjacent fire.Special Fire Fighting Procedures:In fires involving large quantities of product, use self-contained breathing apparatus and full protective clothing.		
Further information:	Hazardous decomposition products may be produced.	
SECTION 6: ACCIDEN	ITIAL RELEASE MEASURES.	
Personal precautions:	Notify safety personnel of large spills. Caustic potassium hydroxide may be released from leaking or ruptured batteries. Avoid eye or skin contact and inhalation of vapours. Increase ventilation. Clean up personnel should wear appropriate protective gear.	
Environmental precaut Methods for cleaning t	tions: Not applicable	
SECTION 7: HANDLIN	NG AND STORAGE.	
Handle and store in cool, well-ventilated area. Keep out of direct sunlight and away from heat sources. DO NOT short or install cells incorrectly. Batteries may explode, pyrolize or vent if disassembled, crushed, recharged or exposed to high temperatures. Install batteries in accordance with equipment instructions. Do not mix battery systems, such as alkaline and zinc carbon, in the same equipment. Replace all batteries in equipment at the same time. Do not carry batteries loose in pocket or bag.		
SECTION 8: EXPOSU	RE CONTROLS / PERSONAL PROTECTION.	
External corrosion of the Nickel plated can and tags could result in the formation of toxic metal salts. Avoid ingestion. Observe personal hygiene. Wash hands after contact. Use neoprene, rubber or nitrile gloves and safety glasses when handling leaking batteries.		
SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.		
APPEARANCE. STABILITY IN WATER. REACTION WITH WAT BOILING POINT. VAPOUR PRESSURE.r VAPOUR DENSITY. SOLUBILITY IN WATEI APPEARANCE & ODO SPECIFIC GRAVITY. MELTING POINT. EVAPORATION RATE.	ER. Only if damaged. N/A. nm/hg N/A. N/A. R. Not soluble in water. UR. N/A. N/A. N/A. N/A. N/A.	
SECTION 10: STABILITY AND REACTIVITY.		
Hazardous decomposition reactions: Thermal degradation may produce hazardous fumes of zinc and manganese; hydrogen gas; caustic vapours of potassium hydroxide and other toxic by-products.		

SECTION 11: TOXICOLOGICAL INFORMATION.			
NONE, unless battery ruptures, then see section 2.			
SECTION 12: ECOLOGICAL INFORMATION.			
Mammalian effects:None known if used / disposed of correctly.Eco-toxicity:None known if used / disposed of correctly.Bioaccumulation potential:None known if used / disposed of correctly.Environmental fate:None known if used / disposed of correctly.			
SECTION 13: DISPOSAL.			
Disposal.		oose in accordance with appropriate regulations. Do not incinerate, since batteries may ode at excessive temperatures.	
SECTION 14: TR	ANSP	ORT INFORMATION.	
UN Hazard Code:		None	
SECTION 15: REGULATORY INFORMATION.			
Classification		None	
Hazard Symbol		None	
Risk Phrases		None	
Safety Phrases		None	
SECTION 16: OTHER INFORMATION			
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.			

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