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	SAFETY DATA SHEE	т		Issue 44896-4		
Section 1- Identification of the material and supplier						
Product identifier:						
Other names:	Personal Locator Beacon (PLB),					
Recommended use:	 The unit is a Personal Locator Beacon (PLB) and is designed to provide a distress alerting and location function. When activated the PLB flashes and radio signals are emitted on internationally recognised VHF and UHF distres channels. 					
	 MT410G variant is equipped with an integral GPS receiver which can provide location co-ordinates for inclusion in the UHF distress transmission. 					
	3. A PLB may find typical application in air, sea and land deployments which require a robust and portable emergency beacon which will be manually activated when required. The MT410 and MT410G will not sink when in water, but are not designed to operate without assistance when floating.					
	4. The integral power source, which cannot normally be accessed without opening the unit, is comprised of two (2) batteries, which are electrically isolated from one another using components on the main circuit board. Current limiting circuitry is provided in case of circuit fault. A battery consists of two (2) series connected LiMnO ₂ Lithium (high energy density) long life cells.					
	The batteries are not to be removed or tampered with – to be used for purpose only.					
Supplier Details						
Name:	Standard Communications P	ty Ltd				
Address:	17 Gibbon Road, Winston Hi	lls, NSW, 215	3, Australia			
Telephone no.:	61 2 8867 6000					
Emergency phone number:	61 2 8867 6000					
Section 2- Hazard(s) identificatio	n					
 The PLB is designed to withstand mod conditions of installation and subseq 		vibration consi	stent with the ex	pected long-term		
 In an undamaged state the chassis fo electronic components and integral b 		nclosure which	protects the prin	nted circuit board,		
· Should the chassis be penetrated the	n the LiMnO ₂ cells may be expose	ed to damage a	nd could exhibit	the following:		
- In contact with water releases fla						
 Causes severe skin burns and eye 	e damage – Category 1B					
 Harmful if swallowed – Category Harmful if inhaled – Category 4 	4					
 Cell / Battery Composition: 0.58 grams (typ.) Lithium per cel 	l (4 cells in total = 2.32g Lithium p	oer unit)				
Section 3- Composition / Informa	ation on ingredients					
Components – Chemical name and comm	non names	%	CAS Number	GHS Hazard		
(Hazardous components 1% or greater, C	(typical)		Statement			
Manganese Dioxide (MnO ₂)		9.0%	1313-13-9	H302, H332		
Lithium (Li)		0.9%	7439-93-2	H260, H314		
Organic Electrolyte		3.5%	-	-		
		86.6%	-			
Non-Hazardous Ingredients		00.070		-		
Non-Hazardous Ingredients		00.070				

Section 4 - First aid measures				
11. d				
Under normal conditions of				
After inhalation:	Not a health hazard			
After skin contact:	Not a health hazard			
After eye contact:	Not a health hazard			
After ingestion:	Drink plenty of water. Avoid vomiting. Seek medical assistance, contact a doctor or			
	Poisons Information Centre immediately.			
If exposed to internal mater	ials within unit due to damaged outer casing, the following actions are recommended:			
After inhalation:	Fresh air. Seek medical assistance.			
After skin contact:	Remove solid particles immediately. Flush affected area with plenty of water (at least 15			
	min). Remove contaminated cloth. Seek medical assistance.			
After eye contact:	Flush eye gently with plenty of water (at least 15min). Seek medical assistance.			
After ingestion:	Drink plenty of water. Avoid vomiting. Seek medical assistance, contact a doctor or			
	Poisons Information Centre immediately.			
Seek medical assista	nce for further treatment, observation and support if necessary.			
Section 5 - Fire fighting	measures			
Futin autob en Mardia.	For lithium model fines (membed by door and flowers) we madel fine outination recorder			
Extinguisher Media:	For lithium metal fires (marked by deep red flames) use metal fire extinction powder extinguisher - class D or rock salt or dry sand shall be used. If only water is available, it			
	can be used in large amounts as a cooling agent. Carbon dioxide CO ₂ is not suitable for			
	lithium metal fires but may be used as a general extinguishing media.			
Special Fire-Fighting	Protective clothing and including breathing apparatus.			
Procedures:				
Special Hazard:	Battery cells may explode and release metal parts.			
	At contact of anode material with water extremely flammable hydrogen gas and caustic			
	liquid are released.			
Section 6 - Accidental r	elease measures			
Charles has been to be a state				
Steps to be taken if Materia				
Personal Precautions &	In the case of the battery cells venting/out-gasing provide as much ventilation as possible and avoid confined spaces.			
Emergency Procedures:	Wear personal protective equipment appropriate to the situation (protective gloves &			
	clothing, eye & face protection and breathing protection)			
Environmental	Bind/contain released materials with powder (rock salt or sand).			
Precautions:	Prevent released materials penetrating into the earth or ground water system.			
Methods, Materials for	Package the unit tightly including any released materials with lime, sand or rock salt.			
Containment and	Dispose of according to the local laws and regulations.			
Cleaning up:	Then clean the contaminated area with water.			
Section 7 - Handling an	d storage			
Precautions to be Taken in H	landing and Storage			
Precautions for Safe	No special protective clothing is required for handling of an undamaged PLB.			
Handling :	Do not puncture, incinerate or crush PLB and/or batteries.			
	Do not short-circuit the batteries.			
	Do not recharge the batteries.			
	Improper handling of lithium ion batteries may result in injury or damage from electrolyte			
	leakage, heating, ignition or explosion.			
For Safe Storage:	Store in a cool, dry place.			
Section 8 - Exposure con	ntrols and Personal protection			
When the DLP chassis or batt	tery cells are not compromised and under normal operating conditions, the release of the			
	occur. Should the cells be compromised, any contact of electrolyte and extruded lithium with			
	avoided. Inhalation should also be avoided.			
Section 9 - Physical and	l chemical properties			
When the PLB chassis or batt	tery cells are not compromised and under normal operating conditions, the release of the			
hazardous material does not	occur.			
Castion 10 Stability and Depativity				
Section 10 - Stability ar	nd Reactivity			
Dangerous Reactions:	Heating above 100°C may cause the batteries to burst, releasing the contents; and			
_	Heating above 170°C will melt lithium resulting in a severe fire and explosion hazard.			
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Section 11 - Toxicological Information

This product does not elicit toxicological properties during routine handling and use.

Sensitization	Teratogenicity	Reproductive Toxicity
NO	NO	NO

If the cells are opened through misuse or damage, discard immediately. Internal components of cell are irritants and sensitizers.

Section 12 - Ecological Information

The Lithium batteries used in the PLB do not contain heavy metals as defined by the European directives 2006/66/EC Article 21.

Some materials within the cell are bio-accumulative. Under normal conditions, these materials are contained and pose no risk to persons or the surrounding environment.

Section 13 - Disposal considerations

Waste Disposal Methods

Dispose in accordance with the appropriate Federal, State and Local Regulations.

Opened cells should be treated as hazardous waste.

Lithium batteries and cells are best disposed of as a non-hazardous waste when discharged, if they are partially or fully charged they considered a reactive hazardous waste because of significant amounts of un-reacted lithium in the battery.

Section 14 - Transport Information

U.N Number :	3091				
Shipping Name :	Lithium Metal Batteries Contained in Equipment. Weight – 77g				
DG Class :	Class 9 - Miscellaneous				
Packaging Group:	IATA: NIL		IMDG: Group II		
Packaging Instruction:	IATA: PI 970 Section II		IMO: N/A		
Hazchem Code :	4W				
Emergency Guidelines:	ICAO: ERG Code: 9FZ	IMO: EmS Codes: F-A, S-I IERG No: SAA/SNZ		IERG No: SAA/SNZ HB 76: 26	

Air Transport (Domestic and International):

Classified as Dangerous Goods by the criteria of International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

- UN No.: 3091
- Class : 9
- Shipping Name : LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT
- Packing Group : None
- Packing Instruction : 970 Section II
- Special Provisions : A48, A99, A154, A164, A181, A185

Road and Rail Transport (Domestic):

Classified as Dangerous Goods by the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail.

- UN No.: 3091
- Class : 9
- Shipping Name : LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT
- Packing Group : None
- Packing Instruction : P903, P908, P909, LP903, LP904
- Special Provisions : A188, A230, A360, A376, A377

Marine Transport (Domestic and International):

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods code for transport by sea.

- UN No.: 3091
- DG Class : 9
- Shipping Name : LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT
- Packing Group : II
- Packing Instruction : P903
- Special Provisions : 188, 230, 957
- EmS Codes: F-A, S-I
- IMDG Marine Pollutant : N

Section 15 - Regulatory information

Battery chemistry not classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (*GHS*) including Work, Health and Safety regulations, Australia. Battery chemistry not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines

Battery chemistry not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Section 16 - Other information

Other Precautions and /or Special Hazards: N/A

Disclaimer: The information included herein has been prepared in accordance with Safe Work Australia, preparation of safety data sheets for hazardous chemicals code of practice (2016), and is believed to be accurate and represents the best information available to us, however we make no warranty, express or implied, with respect to such information, and, we assume no liability resulting from its use. Users should make their own investigations to determine suitability of this information for their particular use.

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