

Safety Data Sheet 26/05/2015

SECTION 1: IDENTIFICATION		
TRADE NAME	ACR Hemilight 3 (3764,3764.1,3769,3769.1)	
ТҮРЕ	LNK-LJ-03A1, LNK-LJ-03A1W	
MANUFACTURERS NAME	XIAMEN LONKAO INDUSTRY & TRADE CO., LTD.	
ADDRESS	Xiamen 361009, Fujian, China	
TELEPHONE NUMBER	954-981-3333	
FAX NUMBER	954-961-4403	
E-MAIL	MSDS@ACRARTEX.COM	
EMERGENCY NOS.	FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE EXPOSURE OR ACCIDENT CALL CHEMTREC DAY OR NIGHT: +86-592-2616123	
DISCRIPTION	Lithium powered position-indicating lights for lifejacket are designed to be stored for up to five years before use. The battery cells are hermetically sealed pressurized primary Lithium/Manganese Dioxide and as supplied are electronically protected by PTC and from external environment by a moulded plastic casing. In this state the unites constitute no definable hazard to health. However disassemble, 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:

MATERIAL	CAS NUMBER	%OPTIONAL	OSHA/PEL	ACGIH TLV 5TEL
Lithium Metal	7439-93-2	2.68%	N/A	N/A
Manganese Dioxide	1313-13-9	33.22%	5mg Mn/m3	5mg Mn/m3
Propylene Carbonate	108-32-7	5.67%	N/A	N/A
Dimethoxyetha ne	110-71-4	4.05%	N/A	N/A
Lithium Perchlorate	7791-03-9	1.0%	N/A	N/A



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SECTION 3: HAZARD IDENTIFICATION

	This is flammable when in contact with water. It reacts violently to
Lithium Metal	product hydrogen and lithium hydroxide. Use only soda ash, sodium
	chloride or graphite to extinguish flames.
	Poison by intravenous and intratracheal routes moderately toxic by
Manganese Dioxide	subcutaneous route. Experimental reproductive effects. A powerful
	oxidiser, flammable by chemical reaction. Must not be heated or rubber
	in contact with easily oxidizable matter.
Dimethoxyethane	Experimental teratogen. Other experimental reproduction effects
	readily forms an explosive peroxide. A very dangerous fire hazard
	when exposed to flame, heat or oxidizers. When heated to
	decomposition it emits acrid smoke and fumes.
Lithium	Moderately toxic. Skin, eye and mucous membrane irritant an oxidiser
	which is incompatible with nitromethane acetone hydrogen and
Perchlorate	oxygen. When heated to decomposition it emits very toxic fumes.

SECTION 4: FIRST AID MEASURES

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EYES	Irrigate thoroughly with water for at least 15minutes. Obtain medical	
	attention	
INHALATION	Remove from exposure, rest and keep warm. In severe cases, or if	
	exposure has been great. Obtain medical attention.	
SKIN	Wash off skin thoroughly with water. Remove contaminated clothing	
SKIN	and wash before re-use. Obtain medical attention.	
INGESTION	Wash out mouth thoroughly with water and give plenty of water to	
	drink. Obtain medical attention.	
	All cases of eye contamination, persistent skin irritation and casualties	
FURTHER	who have swallowed this substance or been affected by breathing its	
TREATMENT	vapours should be seen by a doctor.	
EMERGENCY	If cell vents, personnel should be evacuated from contaminated areas.	
AND FIRST AID	Other materials are either inert or have low hazard associated with	
PROCEDURES	their exposure.	

SECTION 5: FIRE FIGHTING MEASURES

If cells are directly involved in fire, DO NOT USE SAND, DRY POWRER OR SODA ASH, GRAPHITE, METAL CLASS D EXTINGUISHERS OR A FIRE BLANKET. Copious quantities of water based foam are the only recommended extinguishing media for fires involving cells. If a fire is in an adjacent area and cells are packed in their original containers, the fire can be fought based on fuelling material e.g. paper and plastic products. Avoid fume inhalation.

In the case where significant quantities of Lithium/Manganese Dioxide 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 cold battery residues. These gases might include Acetylene, Hydrogen and Cyanide. It is recommended that ventilation should be maximized should this scenario be realized.



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SECTION 6: ACCIDENTAL RELEASE MEASURES

Do not breathe vapours or touch liquid with bare hands. If the skin has come into contact with the electrolyte it should be washed thoroughly with water. Earth or sand should be used to absorb the exudation, seal leaking battery and earth in a heavy-duty polythene bag and dispose of as special waste.

SECTION 7: HANDING AND STORAGE

Handle and store in a cool, dry, well-ventilated area, keep out of direct sunlight.

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

	Do not short circuit or expose to temperatures above the temperature rating of		
HANDLING	the battery. Do not recharge, over-discharge, force discharge, immerse,		
	puncture or crush.		
	Store in a cool place but prevent condensation on cells and batteries. Elevated		
STORAGE	temperatures can result in shortened battery life and degrade performance. Do		
	not store batteries in high humidity environments for long periods. External		
STURAGE	corrosion of the Nickle plated can and tags could result in the formation of		
	toxic metal salts. Avoid ingestion, observe personal hygiene wash hand after		
	contact.		

SECTION9: PHYSICAL AND CHEMICAL PROPERTIES		
APPEARANCE	Light in a plastic housing	
ODOUR	If leaking, smells of medical ether	
STABILITY IN WATER	Product is waterproof.	
REACTION WITH WATER	Only if damaged.	
FLASH POINT	Not applicable unless individual components exposed.	
FLAMMABILITY	Not applicable unless individual components exposed.	
FELATIVE DENSITY	Not applicable unless individual components exposed.	
SOLUBILITY IN WATER	Not applicable unless individual components exposed.	
SOLUBILITY OTHER	Not applicable unless individual components exposed.	



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SECTION 10: STABILITY AND REACTIVITY

Hazardous material are housed within a hermetically sealed unit, under normal conditions this units is Non-Hazardous.

HAZARDOUS REACTIONS	Lithium metal reacts with water to produce highly flammable gasses.
HAZARDOUS DECOMPOSITION REACTIONS	Toxic fumes and may form peroxides.

SECTION 11: TOXICOLOGICAL INFORMATION

SIGNS & SYMPTOMS	None, unless battery ruptures. In event of exposure to internal contents, corrosive fumes will be very irritating to skin, eyes and mucous membranes. Over exposure can cause symptoms of non-fibrotic lung injury and membrane irritation.	
INHALATION	Lung irritant.	
SKIN CONTACT	Skin irritant.	
EYE CONTACT	Eye irritant.	
INGESTION MEDICAL CONDITIONS	Poisoning if swallowed.	
GENERALLY	In the event of exposure to internal contents, eczema, skin	
AGGRAVATED BY	allergies, lung injuries, asthma and other respiratory disorders	
EXPOSURE	may occur.	

SECTION 12: ECOLOGICAL INFORMATION		
MAMMALIAN EFFECTS	None known at present.	
ECO-TOXICITY	None known at present.	
BIOACCUMULATION POTENTIAL	None known at present.	
ENVIRONMENTAL FATE	None known environmental hazards at present.	

SECTION 13: DISPOSAL		
DISPOSAL	DO NOT INCINERATE or subject cells to temperature in excess of 90°C. Such abuse can result in loss of seal, leakage, and/ or cell explosion. Dispose of in accordance with appropriate local regulations. DO NOT ATTEMPT TO DISMANTLE THIS PRODUCT.	





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UN HAZARD CODE	Products are considered non-dangerous goods by International Civil Aviation Organization(ICAO) and International Air Transport Association(IATA DGR 54 edition,2013) because batteries meet all requirements of Packing Instructions(Section II of PI970).	
UN NUMBER	3091	
UN PROPER SHIPPING NAME	Lithium Metal Batteries Contained in Equipment.	
PACKING GROUP	II	
LITHIYM CONTENT LNK-LJ-03A1&W	$0.27g \ (\leq 1 \text{gram lithium metal cell})$	
WATT HOUR RATING	2.6wh	

CLASSIFICATION		Non Hazardous
HAZARD SYMBOL		N/A
RISK PHRASES		N/A
SAFETY PHRASES	L1,D1 C1~C4 Q1~Q2	Keep away from moisture. Keep away from sources of ignition – no smoking. Keep away from combustible material.

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.

N/A