

MSDS Report

Applicant's name	Lumission	
Applicant's Address	Pieter Goedkoopweg 26 2031EL Haarlem The Netherlands	
Name of Sample	Li-ion Battery	(6)
Model	IFR18650-1500mAH	<u>)</u>
Nominal Voltage	6.4V	
Rated Capacity	1500mAh, 9.6Wh	
Weight	88.5g	i)
Size (L×W×T)	(66.6×36.6×20.3)mm	
(3)	Shenzhen TCT Testing Technology Co., Ltd.	(3)
Prepared By	2101 & 2201, Zhenchang Factory, Renshan Industr Subdistrict, Bao'an District, Shenzhen, Guangdong,	
	(C)	
Report No.	TCT211210M107	

Written by

Approved by

Inspected by

Date

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	Product & Company Id			
Name of Sample	Li-ion Battery	(c ¹)	(3)	
Manufacturer's name	Lumission			
Manufacturer's Address	Pieter Goedkoopweg 26 2031EL Haarlem The Netherlands		2	
. "Y		(0)		
Tel	+31 23 3030 560		· · · · · · · · · · · · · · · · · · ·	
Fax	+31 23 3030 569	(3)	
Emergency Tel	1.50	(ZS)	(ES)	-
E-mail	info@lumission.com	(2)		

Section 2- Haza	rds Identificatio	n		
Classification of Danger	See section 14.	6	<u>(1)</u>	<u>(c')</u>
Primary Route(s) of Exposure	Eye, skin contact, in	ngestion.		G
Health Hazard	manufacturer under fire, heat, leakage of including but not lim	ot hazardous when used r normal conditions. In co of internal components, nited to the following cas ed with hard object, pun	ease of abuse, there' which could cause o ses: charged for long	s Hazard of rupture, casualty loss. Abuses g time, short circuited,

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Chemical Name	Concentration concentration r		CAS Number	
Lithium Cobalt Oxide	15-40		12190-79-3	
Graphite	10-30	6	7782-42-5	
Phosphate(1-), hexafluoro-, lithium	10-30)	21324-40-3	
Copper	7-13	(Z)	7440-50-8	
Aluminum foil	5-10	(0)	7429-90-5	(6)
Nickel	1-5	(1)	7440-02-0	

Labeling according to EC directives.

No symbol and Hazard phrase are required.

Note: CAS number is Chemical Abstract Service Registry Number.

N/A=Not apply.

Section 4- Firs	et Aid Measures
Eye	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
Skin	Remove contaminated clothes and rinse skin with plenty of water or shower for 15 minutes. Get medical aid.
Inhalation	Remove from exposure and move to fresh air immediately. Use oxygen if available.
Ingestion	Ingesting damaged batteries, do not induce vomiting or give food or drink. Seek medical attention immediately.

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	ighting Measures		,		
Characteristics of Hazard	Dusts at sufficient con generates toxic fumes		form explosive n	nixtures with air. Comb	ustion
Hazardous Combustion Products	Carbon dioxide.				
Fire-extinguishing Methods and Extinguishing Media	For small fires, use wa	iter spray, dry c	nemical, carbon o	lioxide or chemical foal	m.
Attention in Fire-extinguishing	Wear self-contained be (approved or equivalent		•	emand, MSHA/NIOSH	

Section 6- Accidental Release Measur	es
Personal Precautions, protective equipment, and emergency procedures	In case of rupture. Attention! Corrosive material. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Refer to protective measures listed in Sections 7 and 8.
	Prevent product from contaminating soil and from
Environmental Precautions	entering sewers or waterways.
Methods and materials for Containment	Stop the leak if safe to do so. Contain the spilled liquid with dry sand or earth. Clean up spills immediately.
Methods and materials for cleaning up	Absorb spilled material with an inert absorbent (dry sand or earth). Scoop contaminated absorbent into an acceptable waste container. Collect all contaminated absorbent and dispose of according to directions in Section 13. Scrub the area with detergent and water; collect all contaminated wash water for proper disposal.

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Material	Safety	Data	Sheet

Section 7- Handling and	Storage	
Handling		The battery may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity.
Storage		Store in a cool, dry, well-ventilated area away from incompatible substances. Store locked up. Keep out of the reach of children.
Other Precautions		In case of rupture. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Use personal protection equipment.
(3)		

Section 8 - Exposure Controls/Persor	nal Protection
Engineering Controls	Use adequate ventilation to keep airborne concentrations low. If used under conditions that generate particulates, the ACGIH TLV-TWA of 3mg/m³ respirable fraction (10mg/m³ total) should be observed.
	Eye and Face Protection: None required for consumer use. If there is a Hazard of contact: Tight sealing safety goggles. Face protection shield.
Personal Protective Equipment	Skin and Body Protection: None required for consumer use. If there is a Hazard of contact: Wear protective gloves and protective clothing.
	Respiratory Protection: No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced,

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ventilation and evacuation may be required.

Section 9- Phy	sical and Chemical Properties	
(6)	Appearance: Prismatic	(6)
Physical State	Color: Blue	
,	Odour: If leaking, smells of medical ether.	4
Change in condit	tion:	(C)
рН	Not applicable as supplied.	
Flash Point	Not applicable unless individual components exposed.	(
Flammability	Not applicable unless individual components exposed.	
Relative density:	Not applicable unless individual components exposed.	
Solubility (water)	Not applicable unless individual components exposed.	
Solubility (other)	Not applicable unless individual components exposed.	14

Section 10 – Stability and Reactivity 第十部分 稳定性和反应性	
Chemical Stability	Stable under recommended storage conditions.
(G)	6
Possibility of Hazardous Reactions	None under normal processing.
Conditions to Avoid	Exposure to air or moisture over prolonged periods.
Incompatible materials	Acids, Oxidizing agents, Bases.
Hazardous Decomposition Products	Carbon oxides.

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Section 11 – Toxicological Information			
Irritation	In the event of exposure to internal contents, vapour fumes may be very irritating to the eyes and skin.		
Sensitization	Not Available.		
Reproductive Toxicity	Not Available.		
Toxicologically Synergistic Materials	Not Available.		

Section 12-Ecological I	nformation		
General note:	to		product or large quantities of it water course or sewage
Anticipated behavior of a ci in environment/possible en impact/ ecotoxicity	nonnour product	ot Available.	

Section 13 – Disposal Considerations		
Waste Treatment	Recycle or dispose of in accordance with government, state & local regulations.	
Attention for Waste Treatment	Deserted batteries shouldn't be treated as ordinary trash. Shouldn't be thrown into fire or placed in high temperature. Shouldn't be dissected, pierced, crushed or treated similarly. Best disposal method is recycling.	

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UN number	3481		
Proper shipping name	Lithium ion batteries contained in equipments (including lithium ion polymer batteries).		
Label(s) / Placard Required	Miscellaneous Lithium batt		
	ser needs to be aware of, or needs to comply with, in onveyance either within or outside their premises.		
ICAO / IATA:	Can be shipped by air in accordance with International Civil Aviation Organization (ICAO), TI or International Air Transport Association (IATA), DGR Packing Instructions (PI) 967 Section II appropriate of IATA DGR 63 rd (2022 Edition) for transportation.		
IMDG CODE:	The batteries are not restricted to IMDG Code 2020 Edition (Amdt 40-20) according to special provision 188.		
DOT:	Other requirements for the US Department of Transportation (DOT) Subchapter C, Hazardous Materials Regulations if shipped in compliance with 49 CFR 173.185.		
(1)			
ADR/ ADN:	The batteries are not subject to the provisions of United Nations Economic Commission for Europe (UNECE) ADR/ADN if they meet th requirements of special provision 188 of Chapter 3.3. Applicable as fro 1 January 2021.		

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Section 15 – Regulatory Information

Dangerous Goods Regulations

Recommendations on the Transport of Dangerous Goods-Model Regulations (21st revised edition)

Recommendations on the Transport of Dangerous Goods-Manual of Tests and Criteria

International Air Transport Association (IATA)

International Maritime Dangerous Goods (IMDG Code 2020 Edition Amdt 40-20)

Technical Instructions for the Safe Transport of Dangerous Goods

Classification and code of dangerous goods (GB 6944-2012)

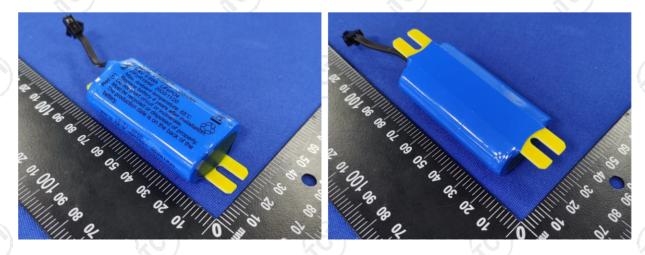
2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

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Section 16 - Additional Information

MSDS creation date: 2022 Version: 1.0

Sample photo



To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

The data/information contained herein has been reviewed and approved for general release on the basis that this document contains no export controlled information.

*****End of report*****