	MSDS F	vehou	
Prepared For:	Dongguan Wiliyoung	g Electronics Co., Lt	d.
Address:	No.5, Wenming 1 St Town, Dongguan Cit		
Product Name:	Rechargeable Li-ion	Battery	
Model:	523450		
Nominal Voltage:	3.7V	) (	(C)
Rated Capacity:	600mAh, 2.22Wh		
Weight:	19.5g		
Dimension:	54.5mm×35.0mm×5	.5mm (L×W×T)	(C)
Prepared By:	Shenzhen TCT Testi 1B/F., Building 1, Yi Baoan District, Sher	baolai Industrial Pa	urk, Qiaotou, Fuyong
Report No.:	TCT181227M057		
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/ritten by:Alv	a Tu Ap	proved by: A	Ien Dim

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TCT通测检测 TESTING CENTRE TECHNOLOGY

Product Name:	Rechargeable Li-ion Battery	
Manufacture:	Dongguan Wiliyoung Electronics Co., Ltd.	
Address:	No.5, Wenming 1 Street, Jinhe Community, Z Dongguan City, Guangdong Prov.	Zhangmutou Town,
Contact Person:	Ms. Tong	
Tel:	+86-769-82932326	
Fax:	+86-769-82932329	3) (3
Emergency Tel:	+86-769-82932326	
E-mail:	2880269975@qq.com	(C)
Item Code:	TCT181227M057	
Section 2- Hazard	s Identification	
Classification of Danger	See section 14.	
Primary Route(s) of Exposure	Eye, skin contact, ingestion.	
Health Hazard	The batteries are not hazardous when used according to manufacturer under normal conditions. In case of abuse fire, heat, leakage of internal components, which could of including but not limited to the following cases: charged circuited, put into fire, whacked with hard object, punctu crushed, and broken.	e, there's Hazard of rupture, cause casualty loss. Abuses for long time, short

Chemical Name		Concentration or concentration ran	ges (%)	CAS Number	
Lithium Cobalt Oxide (C	CoLiO <sub>2</sub> )	15-40		12190-79-3	
Graphite		10-30		7782-42-5	
Phosphate(1-), hexaflue	oro-, lithium	10-30		21324-40-3	
Copper		7-13		7440-50-8	
Aluminum foil		5-10		7429-90-5	
Nickel		1-5		7440-02-0	
Section 1- First	Aid Measu	Ires			
Section 4- First A	Aid Measu	ires			
Section 4- First A	Flush eyes			ninutes, occasionally lifting the up	oper
	Flush eyes and lower e Remove co	with plenty of water for eyelids. Get medical aid		ninutes, occasionally lifting the unit of water or shower for	
Eye	Flush eyes and lower e Remove co minutes. Ge	with plenty of water for eyelids. Get medical aid ntaminated clothes and et medical aid.	I rinse skin w		15
Eye Skin	Flush eyes and lower e Remove co minutes. Ge Remove fro Give at leas	with plenty of water for eyelids. Get medical aid ntaminated clothes and et medical aid. om exposure and move	I rinse skin w to fresh air ii	ith plenty of water or shower for	15
Eye Skin Inhalation	Flush eyes and lower e Remove co minutes. Ge Remove fro Give at leas	with plenty of water for eyelids. Get medical aid ntaminated clothes and et medical aid. om exposure and move st 2 glasses of milk or w	I rinse skin w to fresh air ii	ith plenty of water or shower for nmediately. Use oxygen if availa	15
Eye Skin Inhalation	Flush eyes and lower e Remove co minutes. Ge Remove fro Give at leas unconsciou	with plenty of water for eyelids. Get medical aid intaminated clothes and et medical aid. om exposure and move st 2 glasses of milk or w s. Call a physician.	I rinse skin w to fresh air ii	ith plenty of water or shower for nmediately. Use oxygen if availa	15
Eye Skin Inhalation Ingestion	Flush eyes and lower e Remove co minutes. Ge Remove fro Give at leas unconsciou	with plenty of water for eyelids. Get medical aid intaminated clothes and et medical aid. om exposure and move st 2 glasses of milk or w s. Call a physician. easures	to fresh air in rater. Induce	ith plenty of water or shower for nmediately. Use oxygen if availa	15 ble.
Eye Skin Inhalation Ingestion Section 5- Fire F Characteristics of	Flush eyes and lower e Remove co minutes. Ge Remove fro Give at leas unconsciou	with plenty of water for eyelids. Get medical aid intaminated clothes and et medical aid. om exposure and move st 2 glasses of milk or w s. Call a physician. easures fficient concentrations of poxic fumes.	to fresh air in rater. Induce	ith plenty of water or shower for nmediately. Use oxygen if availa vomiting unless patient is	15 Ible.

Fire-extinguishing Methods and Extinguishing Media	For small fires, use water	spray, dry chemical, carbon dioxide or chemical foam.
Attention in Fire-extinguishing	Wear self-contained breat (approved or equivalent) a	hing apparatus in pressure-demand, MSHA/NIOSH and full protective gear.
Section 6- Accide	ental Release Meas	ures
Personal Precautio equipment, and em	ns, protective ergency 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.
Environmental Pred	cautions	Prevent product from contaminating soil and from entering sewers or waterways.
Methods and mater	ials for Containment	Stop the leak if safe to do so. Contain the spilled liqui with dry sand or earth. Clean up spills immediately.
Methods and mater	rials for cleaning up	Absorb spilled material with an inert absorbent (dry sand or earth). Scoop contaminated absorbent into a 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.
Section 7- Handl	ing 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.

Section 8 - Exposure Controls/Persona	al Protection
Engineering Controls	Use adequate ventilation to keep airborne concentrations low. If used under conditions that generate particulates, the ACGIH TLV-TWA of 3mg/m <sup>3</sup> respirable fraction (10mg/m <sup>3</sup> 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, ventilation and evacuation may be required.

## Section 9- Physical and Chemical Properties

	Appearance: Prismatic	
Physical State	Color: Blue	
(c)	Odour: If leaking, smells of medical ether.	$(\mathbf{C})$

## Change in condition

TCT通测检测 TESTING CENTRE TECHNOLOGY

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.

Section 10 – Stability and Reactivity	
Chemical Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	None under normal processing.
Conditions to Avoid	Exposure to air or moisture over prolonged periods.
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Incompatible materials		Acids, Oxidizing agents, Bases.
Hazardous Decomposition	Products	Carbon oxides.
Section 11 – Toxicologic	cal Informatio	n
Irritation		In the event of exposure to internal contents, vapor fumes may be very irritating to the eyes and skin.
Sensitization	(	Not Available.
Reproductive Toxicity		Not Available.
Toxicologically Synergistic I	Materials	Not Available.
Section 12-Ecological Ir	nformation	
General note:		Do not allow undiluted product or large quantities of to reach ground water, water course or sewage system.
Anticipated behavior of a ch in environment/possible env impact/ ecotoxicity		Not Available.
Section 13 – Disposal C	consideration	5
Waste Treatment	~	Recycle or dispose of in accordance with government, state & local regulations.
Attention for Waste Treatme	ent Cont	Deserted batteries shouldn't be treated as ordinary trash. Shouldn't be thrown into fire or placed in hig temperature. Shouldn't be dissected, pierced, crushed or treated similarly. Best disposal method recycling.
) ((0)		
Section 14 – Transport I	Information	
UN number	3481	
Proper shipping name	Lithium ion ba polymer batter	tteries contained in equipments (including lithium ion ies)
Class or division	9 (Not subject	to these Regulations)

TCT通测检:		I Safety Data Sheet
Label(s) / Placard Required	Miscellaneous Lithium batt	
	user needs to be aware of, or needs to com conveyance either within or outside their pre	•
CAO / IATA:	Can be shipped by air in accordance with Internat Organization (ICAO), TI or International Air Transp (IATA), DGR Packing Instructions (PI) 967 Section DGR 60th (2019 Edition) for transportation.	oort Association
MDG CODE:	The batteries are not restricted to IMDG Code 201 39-18) according to special provision 188.	8 Edition (Amdt
DOT:	Other requirements for the US Department of Trar Subchapter C, Hazardous Materials Regulations it compliance with 49 CFR 173.185.	
ADR/ ADN:	The batteries are not subject to the provisions of L Economic Commission for Europe (UNECE) ADR, requirements of special provision 188 of Chapter 3 1 January 2019.	ADN if they meet the
	port each lithium cell and battery types must have pa	assed the applicable
		assed the applicable
	port each lithium cell and battery types must have pa	assed the applicable
	sport each lithium cell and battery types must have pa the UN Manual of Tests and Criteria.	assed the applicable
ests set out in Subsection 38.3 of Section 15 – Regulatory	sport each lithium cell and battery types must have pa the UN Manual of Tests and Criteria.	assed the applicable
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Section 15 – Regulatory Dangerous Goods Regulations	sport each lithium cell and battery types must have pa the UN Manual of Tests and Criteria.	
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Section 15 – Regulatory Dangerous Goods Regulations Recommendations on the Trans Recommendations on the Trans	sport of Dangerous Goods-Manual of Tests and Criteria	revised edition)
Section 15 – Regulatory Dangerous Goods Regulations Recommendations on the Trans Recommendations on the Trans International Air Transport Asso	apport each lithium cell and battery types must have pathe UN Manual of Tests and Criteria. Information sport of Dangerous Goods-Model Regulations (20th sport of Dangerous Goods-Manual of Tests and Criteria	revised edition)
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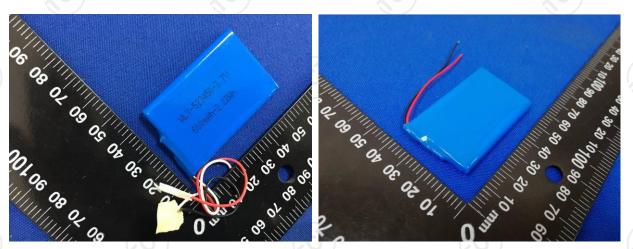
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## Section 16 – Additional Information

MSDS creation date: 2019 Version: 1.0

Sample photo:



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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\*\*\*\*\*\*

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