	MSD				
					(\mathbf{G})
Applicant's name	SHENZHEN B	BLUECHAO TEO	CHNOLOGY (CO., LTD	
Applicant's Address		7th Floor, Building A3, Zhongtai Information Technology Industrial Park, Shiyan Street, Baoan District, Shenzhen			
Name of Sample	Polymer Li-ion	Battery			
Model	LC 481820				
Nominal Voltage	3.8V			C C	
Rated Capacity	180mAh, 0.68	4Wh			
Weight	3.2g				
Size (L×W×T)	(20.0×18.0×4.	8)mm			
Prepared By	2101 & 2201,	Shenzhen TCT Testing Technology Co., Ltd. 2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China			
Report No.	TCT221202M	141			
/ritten by: <u>May</u>	Hou	_ Approv	ved by:	Tomsi	
spected by:	y Zeng	Effective	e Date:	2023. 01. (01
					LESTING TE

Ĩ

ſ

Material Safety Data Sheet

TCT通测检测 TESTING CENTRE TECHNOLOGY

Name of Sample	Polymer Li-ion Battery			
Manufacturer's name	BLUECHAO TECHNOLO	GY (DONGGUAN) CO.,	LTD	
Manufacturer's Address	3rd Floor, No. 33, Shiyong	g Private Industrial Zone,	Hengli Town, Donggua	n City
Contact Person	Mr. Liu			
Tel	+86-13823116391			
Emergency Tel	+86-13823116391	3)	(\mathcal{C})	(
E-mail	liu@bluechao.com			
Section 2- Hazards Classification of Danger	See section 14.	3)		(
Primary Route(s) of Exposure	Eye, skin contact, ingestion			
Health Hazard	The batteries are not hazar manufacturer under normal fire, heat, leakage of interna including but not limited to t circuited, put into fire, whac crushed, and broken.	conditions. In case of ab I components, which cou he following cases: charg	use, there's Hazard of r Ild cause casualty loss. ged for long time, short	Abuse

Section 3- Composition/Information on Ingredients

12190-79-3
7782-42-5
21324-40-3
N/A
7440-50-8
7429-90-5
N/A

Labeling according to EC directives.

No symbol and Hazard phrase are required.

TCT通测检测 TESTING CENTRE TECHNOLOGY

Note: CAS number is Chemical Abstract Service Registry Number.

N/A=Not apply.

Section 4- First 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.

Section 5- Fire Fighting Measures

Characteristics of Hazard	Dusts at sufficient concentrations can form explosive mixtures with air. Combustion generates toxic fumes.
Hazardous Combustion Products	Carbon dioxide.
Fire-extinguishing Methods and Extinguishing Media	For small fires, use water spray, dry chemical, carbon dioxide or chemical foam.

Report No.: TCT221202M141 Page 3 of 8 Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

	Material Safety Data Sheet	
	Wear self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.	
Section 6- Accidental Release	Measures	
Personal Precautions, protective equipment, and emergency proced	<i>LITES</i> 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 Precautions	Prevent product from contaminating soil and from entering sewers or waterways.	
Methods and materials for Containr	nent 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	<i>up</i> 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.	
Section 7- Handling and Stora	је	
Section 7- Handling and Stora	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.	
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	
	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. Store in a cool, dry, well-ventilated area away from incompatible substances. Store locked up. Keep out	
Handling Storage	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. Store in a cool, dry, well-ventilated area away from incompatible substances. Store locked up. Keep out of the reach of children. 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.	
Handling Storage Other Precautions	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. Store in a cool, dry, well-ventilated area away from incompatible substances. Store locked up. Keep out of the reach of children. 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.	

TCT		Material Safety Data Sheet	
		Eye and Face Protection: None required for consumer use. If there is a Hazard of contact: Tight sealing safety goggles. Face protection shield.	
Personal Protect	ive 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- Phy	sical and Chemical F	Properties	
	Appearance: Prismatic		
Physical State	Color: Silver		
	Odour: If leaking, smells of	of medical ether.	
Change in condit	tion		
оН	Not applicable as supplied.		
Flash Point	Not applicable unless individual components exposed.		
Flammability	Not applicable unless individual components exposed.		
Relative density:	Not applicable unless indi	vidual components exposed.	
Solubility (water)	Not applicable unless individual components exposed.		
Solubility (other)	Not applicable unless indi	vidual components exposed.	
Section 10 – S	stability and Reactivity	/	
Chemical Stabilit	'Y	Stable under recommended storage conditions.	
Possibility of Haz	zardous Reactions	None under normal processing.	
Conditions to Ave	oid	Exposure to air or moisture over prolonged periods.	
Incompatible ma	terials	Acids, Oxidizing agents, Bases.	
Hazardous Deco	mposition Products	Carbon oxides.	
)	(\mathbf{c}^{\prime})		

Material Safety Data Sheet

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 M	laterials	Not Available.
) (,C)		
Section 12-Ecological Inf	ormation	
General note:		Do not allow undiluted product or large quantities of to reach ground water, water course or sewage system.
Anticipated behavior of a che in environment/possible envi impact/ ecotoxicity	-	Not Available.
Waste Treatment		Recycle or dispose of in accordance with government, state & local regulations.
Attention for Waste Treatmer	nt	government, state & local regulations.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
	nt	 government, state & local regulations. 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,
		government, state & local regulations.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
Attention for Waste Treatmer		government, state & local regulations.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
Attention for Waste Treatmer Section 14 – Transport In	Iformation 3480 & 3481 Lithium ion batte Lithium ion batte polymer batterie	government, state & local regulations. 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. eries (limited to a maximum of 30% SoC) or; eries packed with equipment (including lithium ion es) or; eries contained in equipments (including lithium ion
Attention for Waste Treatmer Section 14 – Transport In UN number	1 5 5 5 5 5 5 5 5 5 5 5 5 5	government, state & local regulations. 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. eries (limited to a maximum of 30% SoC) or; eries packed with equipment (including lithium ion es) or; eries contained in equipments (including lithium ion

	Material Safety Data She
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) 965 Section IB, PI 966 Section and PI 967 Section II appropriate of IATA DGR 64 th (2023 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.
ADR/ ADN:	The batteries are not subject to the provisions of United Nations Economic Commission for Europe (UNECE) ADR/ADN if they meet to requirements of special provision 188 of Chapter 3.3. Applicable as f 1 January 2021.
	transport each lithium cell and battery types must have passed the applicabl 3.3 of the UN Manual of Tests and Criteria.
Section 15 – Regulat	tory Information
Dangerous Goods Regula	ations
Recommendations on the	Transport of Dangerous Goods-Model Regulations (22 nd revised edition)
Recommendations on the	Transport of Dangerous Goods-Manual of Tests and Criteria
International Air Transpor	t Association (IATA)
International Maritime Da	ngerous 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)

Toxic Substance Control Act (TSCA)

Code of Federal Regulations

In accordance with all Federal, State and local laws

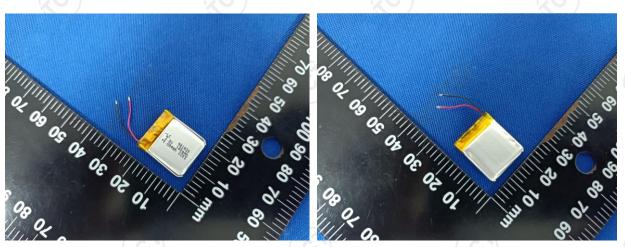


Material Safety Data Sheet

Section 16 – Additional Information

MSDS creation date: 2023 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******

Shenzhen TCT Testing Technology Co., Ltd. 2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China Report Search Number: TCT221202M141 Search System: http://www.tct-lab.com Page 8 of 8