	MSDS	Report	(C)
Applicant's name	ShenZhen Utility Pow	ver Source Co., Ltd.	
Applicant's Address	2, HUIYE SCIENCE TANGJIA COMMUNI	REA A, BLOCK 3 & 3RD F AND TECHNOLOGY PAR TY, GONGMING AGENC` EN CITY, GUANGDONG I	K, GUANGUANG ROAD, Y, GUANGMING NEW
Name of Sample	Li-ion Battery		
Model	UTL2898141		
Nominal Voltage	3.7V		
Rated Capacity	5000mAh, 18.5Wh	Ś	(C)
Weight	85.4g	~	
Size (L×W×T)	(142.0×98.5×2.95)mr	9) (<u>e</u>
Prepared By		ng Technology Co., Ltd. /ibaolai Industrial Park, suangdong, China.	Qiaotou, Fuyong, Baoan
Report No.	TCT190626M011		
Vritten by:Che	rr& Huang	Approved by:	Allen Din
nspected by:	y Zeng	Date:	2019. 0 TCT

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Material Safety Data Shee	ety Data Sheet
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Material Safety Data Sheet

TCT通测检测 TESTING CENTRE TECHNOLOGY

Name of Sample	Li-ion Battery			
Manufacturer's name	ShenZhen Utility Pow	er Source Co., Ltd.		
Manufacturer's Address	HUIYE SCIENCE AN COMMUNITY, GONG	REA A, BLOCK 3 & 3RD D TECHNOLOGY PARF GMING AGENCY, GUAN UANGDONG PROVINC	K, GUANGUANG ROAD IGMING NEW DISTRIC	, TANGJIA
Contact Person	Ms. Li	Ś		
Tel	+86-755-29891961			
Fax	+86-755-29891961	C)	(C)	(K
Emergency Tel	+86-755-29891961		G	
E-mail	liqingxia@szutl.com.c	'n		
	3			(
Section 2- Hazard	s Identification			
Classification of Danger	See section 14.			
Primary Route(s) of Exposure	Eye, skin contact, inges	stion		
Health Hazard	manufacturer under not fire, heat, leakage of int including but not limited	azardous when used acc rmal conditions. In case ernal components, which to the following cases: vhacked with hard object	of abuse, there's Hazar h could cause casualty l charged for long time, s	d of rupture, oss. Abuses hort
	51	(\mathcal{S})	(2G)	

Chemical Name	Concentration or concentration ranges (%)	CAS Number
Lithium Cobalt Oxide	15-40	12190-79-3
Graphite	10-30	7782-42-5
Phosphate(1-), hexafluoro-, 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

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	Give at least 2 glasses of milk or water. Induce vomiting unless patient is unconscious. Call a physician.

Section 5- Fire Fighting Measures Characteristics of Dusts at sufficient concentrations can form explosive mixtures with air. Combustion Hazard generates toxic fumes. Hazardous Combustion Carbon dioxide. **Products** Fire-extinguishing Methods and For small fires, use water spray, dry chemical, carbon dioxide or chemical foam. Extinguishing Media Report No.: TCT190626M011 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
Attention inWear self-contained breadFire-extinguishing(approved or equivalent)	thing apparatus in pressure-demand, MSHA/NIOSH and full protective gear.
Section 6- Accidental Release Meas	ures
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.
Environmental Precautions	Prevent product from contaminating soil and from 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.
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.
Section 8 - Exposure Controls/Perso	onal 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 ³ respirable fraction (10mg/m ³ total) should be observed.

		Material Safety Data Sheet Eye and Face Protection: None required for consumer use. If there is a Hazard of contact: Tight
Personal Protect	ive Equipment	 sealing safety goggles. Face protection shield. 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.
S		
Section 9- Phy	sical and Chemical P	roperties
	Appearance: Prismatic	
Physical State	Color: Silver	
	Odour: If leaking, smells o	f medical ether.
Change in condit	tion	
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 indiv	vidual components exposed.
Solubility (other)	Not applicable unless individual components exposed.	
Section 10 – S	tability and Reactivity	,
Chemical Stabilit	У	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.
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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 Ma	aterials	Not Available.
) ((G)		
Section 12-Ecological Inf	ormation	
General note:	Ś	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 envir impact/ ecotoxicity		Not Available.
Section 13 – Disposal Co	nsiderations	
		Recycle or dispose of in accordance with
Waste Treatment Attention for Waste Treatmen		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
Waste Treatment		government, state & local regulations. Deserted batteries shouldn't be treated as ordinary trash. Shouldn't be thrown into fire or placed in high
Waste Treatment Attention for Waste Treatmen	t	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
Waste Treatment Attention for Waste Treatmen Section 14 – Transport In	t	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
Waste Treatment	formation 3480 & 3481 Lithium ion batter polymer batteries	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.
Waste Treatment Attention for Waste Treatmen Section 14 – Transport In UN number	t formation 3480 & 3481 Lithium ion batter Lithium ion batter polymer batteries Lithium ion batter	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.

Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance 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) 965 Section II/Section IB, PI 966 Section II and PI 967 Section II appropriate of IATA DGR 60th (2019 Edition) for transportation.
IMDG CODE:	The batteries are not restricted to IMDG Code 2018 Edition (Amdt 39-18) 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 the requirements of special provision 188 of Chapter 3.3. Applicable as from 1 January 2019.

In addition, to be permitted in transport each lithium cell and battery types must have passed the applicable tests set out in Subsection 38.3 of the UN Manual of Tests and Criteria.

Section 15 – Regulatory Information

Dangerous Goods Regulations

Recommendations on the Transport of Dangerous Goods-Model Regulations (20th 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 2018 Edition Amdt 39-18)

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

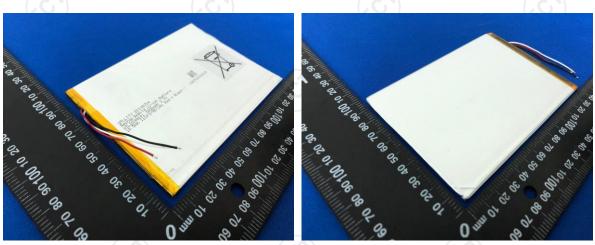


Material Safety Data Sheet

Section 16 – Additional Information

MSDS creation date: 2019 Version: 2.0

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. 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China Report Search Number: TCT190626M011 Search System: http://www.tct-lab.com Page 8 of 8