				Material S	afety Data She
C .	MSD	SR	epo	rt	
Applicant's name	Huizhou Lead	s The World E	Battery Power Te	echnology Co.,	LTD.
Applicant's Address			Science Park, N Huizhou City, Gi		
Name of Sample	Polymer Lithiu	ım ion Cell			(5)
Model	103450				
Nominal Voltage	3.7V	(C)			
Rated Capacity	1800mAh, 6.6	6Wh			
Weight	31.0g		(S)		S)
Size (L×W×T)	(50.3×34.0×10	0.0)mm			
Prepared By		, 1, Yibaolai In	nnology Co., Ltd Idustrial Park, C ong, China.		ı, Baoan
Report No.	TCT200518M	010			
(C)		(C)			
Written by:Cher	rð Huang	_ Appro	oved by:	Aven &	m
8					Lesting Techno
nspected by:	y leng		Date: _	2020. 0	TCT

F

Material Safety Data Sheet

TCT通测检测 TESTING CENTRE TECHNOLOGY

Name of Sample	Polymer Lithium ion Cell			
Manufacturer's name	Huizhou Leads The World Bat	ttery Power Technol	ogy Co., LTD.	
Manufacturer's Address	1-2 / F, Building D, Huatao Sc Zhongkai High-Tech Zone, Hu			
Contact Person	Mr. Yang			
Tel	+86-572-5853883			
Fax	+86-752-5853883		(\mathcal{C})	
Emergency Tel	+86-572-5853883			
E-mail	597843604@qq.com			
Section 2- Hazard Classification of Danger	Is Identification See section 14.			
(<u>k</u> G`)			(\mathcal{C})	
	Eye, skin contact, ingestion.			
Primary Route(s) of Exposure			-	•
Primary Route(s) of Exposure Health Hazard	The batteries are not hazardous manufacturer under normal con fire, heat, leakage of internal con including but not limited to the for circuited, put into fire, whacked crushed, and broken.	ditions. In case of a mponents, which co ollowing cases: cha	uld cause casualty loss. <i>A</i> rged for long time, short	

Chemical Name	Concentration or concentration ranges (%)	CAS Number
ithium Cobalt Oxide	15-40	12190-79-3
Graphite	10-30	7782-42-5
nosphate(1-), hexafluoro-, lithium	10-30	21324-40-3
opper	7-13	7440-50-8
uminum foil	5-10	7429-90-5
ickel	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.: TCT200518M010 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 breatFire-extinguishing(approved or equivalent) a	thing apparatus in pressure-demand, MSHA/NIOSH and full protective gear.
Section 6- Accidental Release Measu	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	
	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
Section 7- Handling and Storage 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
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.
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.

		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.
Section 9- Phy	sical and Chemical P	roperties
	Appearance: Prismatic	
Physical State	Color: Silver	
	Odour: If leaking, smells of	f medical ether.
Change in condit	ion	
рН	Not applicable as supplied	
Flash Point	Not applicable unless indiv	vidual components exposed.
Flammability	Not applicable unless indiv	vidual components exposed.
Relative density:	Not applicable unless indiv	vidual components exposed.
Solubility (water)	Not applicable unless indiv	vidual components exposed.
Solubility (other)	Not applicable unless indiv	vidual components exposed.
Section 10 – S	tability and Reactivity	
Chemical Stabilit	у	Stable under recommended storage conditions.
Possibility of Haz	ardous Reactions	None under normal processing.
Conditions to Ave	oid	Exposure to air or moisture over prolonged periods.
Incompatible mat	terials	Acids, Oxidizing agents, Bases.
Hazardous Deco	mposition Products	Carbon oxides.
	(\mathcal{C})	

Material Safety Data Sheet

Section 11 – Toxicologica	I Information	
Irritation	<u>(</u>)	In the event of exposure to internal contents, vapour fumes may be very irritating to the eyes and skin.
Sensitization		Not Available.
Reproductive Toxicity	S S	Not Available.
Toxicologically Synergistic Ma	aterials	Not Available.
	k	
Section 12-Ecological Infe	ormation	
General note:		Do not allow undiluted product or large quantities of it 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		Recycle or dispose of in accordance with government, state & local regulations.
Attention for Waste Treatmen	t	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.
Section 14 – Transport In	formation	
UN number	3480 & 3481	
Proper shipping name	Lithium ion batter polymer batteries	ies contained in equipments (including lithium ion
Label(s) / Placard Required	Miscellaneous Lithium batt	
		e aware of, or needs to comply with, in er within or outside their premises
Report No.: TCT200518M010 Hotline: 400-6611-140 Tel: 8	36-755-27673339	Page 6 of 8 Fax: 86-755-27673332 http://www.tct-lab.com

Section II and PI 967 Section II appropriate of IATA DGR 61 st (2020 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		Material Safety Data Sheet
MINDS CODE: 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 fro 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)	ICAO / IATA:	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 61 st (2020
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 fro 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)	MDG CODE:	
ADR/ ADN: Economic Commission for Europe (UNECE) ADR/ADN if they meet the requirements of special provision 188 of Chapter 3.3. Applicable as fro 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)	DOT:	Subchapter C, Hazardous Materials Regulations if shipped in
Rests 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)	ADR/ ADN:	Economic Commission for Europe (UNECE) ADR/ADN if they meet the requirements of special provision 188 of Chapter 3.3. Applicable as from
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)	ests set out in Subsection 38.3	of the UN Manual of Tests and Criteria.
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)		
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)		
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)	Section 15 – Regulator	y Information
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)		
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)	Dangerous Goods Regulation	ns
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)	Dangerous Goods Regulation	ns
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)	Dangerous Goods Regulation Recommendations on the Tra	ns ansport of Dangerous Goods-Model Regulations (20th revised edition)
Classification and code of dangerous goods (GB 6944-2012) 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) Toxic Substance Control Act (TSCA)	Dangerous Goods Regulation Recommendations on the Tra Recommendations on the Tra	ns ansport of Dangerous Goods-Model Regulations (20th revised edition) ansport of Dangerous Goods-Manual of Tests and Criteria
Classification and code of dangerous goods (GB 6944-2012) 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) Toxic Substance Control Act (TSCA)	Dangerous Goods Regulation Recommendations on the Tra Recommendations on the Tra International Air Transport As	ns ansport of Dangerous Goods-Model Regulations (20th revised edition) ansport of Dangerous Goods-Manual of Tests and Criteria ssociation (IATA)
2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) Toxic Substance Control Act (TSCA)	Dangerous Goods Regulation Recommendations on the Tra Recommendations on the Tra International Air Transport As International Maritime Dange	ns ansport of Dangerous Goods-Model Regulations (20th revised edition) ansport of Dangerous Goods-Manual of Tests and Criteria ssociation (IATA) erous Goods (IMDG Code 2018 Edition Amdt 39-18)
Toxic Substance Control Act (TSCA)	Dangerous Goods Regulation Recommendations on the Tra Recommendations on the Tra International Air Transport As International Maritime Dange Technical Instructions for the	ns ansport of Dangerous Goods-Model Regulations (20th revised edition) ansport of Dangerous Goods-Manual of Tests and Criteria ssociation (IATA) erous Goods (IMDG Code 2018 Edition Amdt 39-18) e Safe Transport of Dangerous Goods
	Dangerous Goods Regulation Recommendations on the Tra Recommendations on the Tra International Air Transport As International Maritime Dange Technical Instructions for the Classification and code of da	ns ansport of Dangerous Goods-Model Regulations (20th revised edition) ansport of Dangerous Goods-Manual of Tests and Criteria ssociation (IATA) erous Goods (IMDG Code 2018 Edition Amdt 39-18) e Safe Transport of Dangerous Goods angerous goods (GB 6944-2012)
Code of Federal Regulations	Dangerous Goods Regulation Recommendations on the Tra Recommendations on the Tra International Air Transport As International Maritime Dange Technical Instructions for the Classification and code of da	ns ansport of Dangerous Goods-Model Regulations (20th revised edition) ansport of Dangerous Goods-Manual of Tests and Criteria ssociation (IATA) erous Goods (IMDG Code 2018 Edition Amdt 39-18) e Safe Transport of Dangerous Goods angerous goods (GB 6944-2012)
	Dangerous Goods Regulation Recommendations on the Tra Recommendations on the Tra International Air Transport As International Maritime Dange Technical Instructions for the Classification and code of da 2012 OSHA Hazard Commun	ns ansport of Dangerous Goods-Model Regulations (20th revised edition) ansport of Dangerous Goods-Manual of Tests and Criteria ssociation (IATA) erous Goods (IMDG Code 2018 Edition Amdt 39-18) e Safe Transport of Dangerous Goods angerous goods (GB 6944-2012) nication Standard (29 CFR 1910.1200)
	Dangerous Goods Regulation Recommendations on the Tra Recommendations on the Tra International Air Transport As International Maritime Dange Technical Instructions for the Classification and code of da 2012 OSHA Hazard Commun Toxic Substance Control Act	ns ansport of Dangerous Goods-Model Regulations (20th revised edition) ansport of Dangerous Goods-Manual of Tests and Criteria association (IATA) erous Goods (IMDG Code 2018 Edition Amdt 39-18) a Safe Transport of Dangerous Goods angerous goods (GB 6944-2012) nication Standard (29 CFR 1910.1200) (TSCA)

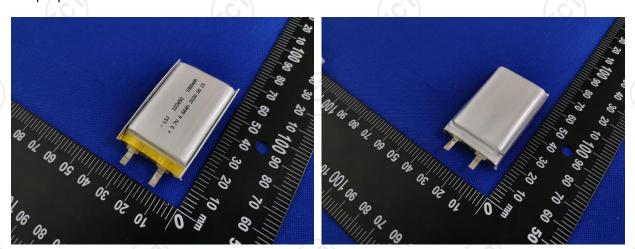


Material Safety Data Sheet

Section 16 – Additional Information

MSDS creation date: 2020 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. 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China Report Search Number: TCT200518M010 Search System: http://www.tct-lab.com Page 8 of 8