Prepared For:	Shenzhen Ha	aomingshe Electronic	Technology C	o., Ltd.
Address:	-	E, Huachuangda Indu ı, Baoan District, She		ngcheng
Product Name:	Lithium ion B	attery		
Model:	HMS18650			
Nominal Voltage:	3.7V	Ś	Ś	
Rated Capacity:	1200mAh, 4.4	44Wh		
Weight:	40.0g	(O)		
Dimension:	18.5mm×66.0	0mm (D×H)		
Prepared By:	1B/F., Buildin	CT Testing Technolog ng 1, Yibaolai Industi ct, Shenzhen, Guange	rial Park, Qiao	tou, Fuyong,
Report No.:	TCT190115M	1014		
Vritten by:	ra Wang	Approved by:_	Allen &	in and the
nspected by:A	my Zeng	Date:	2019. 01	

TCT 通测检测 TESTING CENTRE TECHNOLOGY

TCT通测检测 TESTING CENTRE TECHNOLOGY

Product Name:	Lithium ion Battery		$\langle \mathcal{C} \rangle$
Manufacture:	Shenzhen Haomingsh	e Electronic Technology	y Co., Ltd.
Address:	2F, Building E, Huachu Gushu, Baoan District,	angda Industrial Park, Shenzhen.	Hangcheng Road,
Contact Person:	Mr. Shan		
Tel:	+86-755-29404715		
Fax:	+86-755-29405254		3) (2
Emergency Tel:	+86-755-29404715		
E-mail:	386342166@qq.com	(C)	(C)
Item Code:	TCT190115M014		76. /
Section 2- Hazard	s Identification		
Classification of Danger	See section 14.		
Primary Route(s) of			5)
Exposure	Eye, skin contact, ingestion.		
Health Hazard	The batteries are not hazard manufacturer under normal of fire, heat, leakage of internal including but not limited to th circuited, put into fire, whack	conditions. In case of abuse components, which could c e following cases: charged	, there's Hazard of rupture, ause casualty loss. Abuses for long time, short
	crushed, and broken.		<u>j</u>

## Section 3- Composition/Information on Ingredients

Chemical Name	Concentration or concentration ranges (%)	CAS Number
Lithium Cobalt Oxide (CoLiO2)	30-60	12190-79-3
Graphite	10-30	7782-42-5
Phosphate(1-), hexafluoro-, lithium	10-30	21324-40-3
Copper	5-10	7440-50-8
Aluminum foil	1-5	7429-90-5
Nickel	1-5	7440-02-0
PVC (Chloroethylene, polymer)	1-5	9002-86-2

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.
$(\mathcal{S})$	

## 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.

	Material Safety Data Sheet
Attention in Fire-extinguishingWear self-contained breath (approved or equivalent) a	hing 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.
	The battery may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect
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.   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: Cylindrical	•
Physical State	Color: Blue	
	Odour: If leaking, smells	of medical ether.
Change in condi	tion	
рН	Not applicable as supplie	d.C
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.	
<u> </u>		
Section 10 – S	Stability and Reactivity	y
Chemical Stabilit	ty	Stable under recommended storage conditions.
Possibility of Haz	zardous Reactions	None under normal processing.
Conditions to Av	oid	Exposure to air or moisture over prolonged periods.
Incompatible ma	terials	Acids, Oxidizing agents, Bases.
Hazardous Deco	mposition Products	Carbon oxides.

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 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	onsiderations	
	$\mathbf{\nabla}$	
Waste Treatment		Recycle or dispose of in accordance with government, state & local regulations.
	nt	Recycle or dispose of in accordance with 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,
	nt	Recycle or dispose of in accordance with 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 Treatmen		Recycle or dispose of in accordance with 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 UN number		Recycle or dispose of in accordance with 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 Treatmen Section 14 – Transport In	formation 3480 & 3481 Lithium ion batt polymer batterio	Recycle or dispose of in accordance with 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. teries (limited to a maximum of 30% SoC) or; teries packed with equipment (including lithium ion es) or; teries contained in equipments (including lithium ion
Attention for Waste Treatment Section 14 – Transport In UN number	formation 3480 & 3481 Lithium ion batt Lithium ion batt polymer batterio Lithium ion batt	Recycle or dispose of in accordance with 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. teries (limited to a maximum of 30% SoC) or; teries packed with equipment (including lithium ion es) or; teries contained in equipments (including lithium ion

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



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