Material	Safety	Data	Sheet
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				(\mathbf{c})
Applicant's name	Dongguan Hengka	ida Energy Technolog	gy Co., Ltd.	
Applicant's Address	5F, No. 557, Fumin City.	g Middle Rd, Caibian	ı Village, Dalang To	wn, Dongguan
Name of Sample	Rechargeable Li-io	n Battery		
Model	HKD-24			
Nominal Voltage	3.7V		Ś	
Rated Capacity	2400mAh, 8.88Wh			
Weight	77.8g	S)		0
Size (L×W×T)	(67.0×36.0×19.0)m	m		
Prepared By	2101 & 2201, Zhen	ting Technology Co., chang Factory, Rens District, Shenzhen, C	han Industrial Zone	, Fuhai
Report No.	TCT211214M141			
) (J. J		
Written by: <u>Ma</u>	y Hou	Approved by:	Tomsin	STING TH
Inspected by:	ny Zeng	Date:	2022. 01	

TCT通测检测 TESTING CENTRE TECHNOLOGY

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Material Safety Data Sheet

Material Safety Data Sheet

	Rechargeable Li-ion Battery		
Manufacturer's name	Dongguan Hengkaida Energy Te	chnology Co., Ltd.	
Manufacturer's Address	5F, No. 557, Fuming Middle Rd,	Caibian Village, Dalang	g Town, Dongguan City.
Contact Person	Mr. Li		
Tel	+86-769-82928521		
Fax	+86-769-82928521	K	
Emergency Tel	+86-769-82928521		
E-mail	864507852@qq.com	Ś	(c)
Section 2- Hazard			
	See section 14.		
Classification of Danger Primary Route(s) of Exposure	See section 14. Eye, skin contact, ingestion.		
Danger Primary Route(s) of		ons. In case of abuse, onents, which could ca wing cases: charged fo	there's Hazard of rupture use casualty loss. Abuses or long time, short

Chemical Name		Concentration or concentration ranges (%)	CAS Number
Lithium Cobalt Oxide	e (CoLiO ₂)	30-60	12190-79-3
Graphite		10-30	7782-42-5
Phosphate(1-), hexa	afluoro-, 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 (Chloroethylen Labeling according to No symbol and Hazard Note: CAS number is (EC directives. d phrase are requir		9002-86-2
Labeling according to No symbol and Hazard	EC directives. d phrase are requir Chemical Abstract	red. Service Registry Number.	9002-86-2
Labeling according to No symbol and Hazard Note: CAS number is (N/A=Not apply.	EC directives. d phrase are requir Chemical Abstract st Aid Measu Flush eyes	red. Service Registry Number.	5 minutes, occasionally lifting the upper
Labeling according to No symbol and Hazard Note: CAS number is (N/A=Not apply. Section 4- Firs	EC directives. d phrase are requir Chemical Abstract st Aid Measu Flush eyes and lower e Remove co	red. Service Registry Number. IFES with plenty of water for at least 1 eyelids. Get medical aid.	
Labeling according to No symbol and Hazard Note: CAS number is (N/A=Not apply. Section 4- Firs	EC directives. d phrase are requir Chemical Abstract st Aid Measu Flush eyes and lower e Remove co minutes. Ge	red. Service Registry Number. IFES with plenty of water for at least 1 eyelids. Get medical aid. entaminated clothes and rinse ski et medical aid.	5 minutes, occasionally lifting the upper

Section 5- Fire Fighting Measures

TCT通测检测 TESTING CENTRE TECHNOLOGY

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	For small fires, use water spray, dry chemical, carbon dioxide or chemical foam.

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 Hotline: 400-6611-140
 Tel: 86-755-27673339
 Fax: 86-755-27673332
 http://www.tct-lab.com

Extinguishing Media	745		
	Wear self-contained breatl (approved or equivalent) a		sure-demand, MSHA/NIOSH
<i></i>	<u>_</u> .		<i>C</i> 1.
Section 6- Accider	ntal Release Measu	ures	
Personal Precautions equipment, and eme		Avoid contact with s adequate ventilatio equipment as requi areas. Keep people	Attention! Corrosive material. skin, eyes and clothing. Ensure n. Use personal protective red. Evacuate personnel to safe a away from and upwind of protective measures listed in
Environmental Preca	utions	Prevent product fro entering sewers or	m contaminating soil and from waterways.
Methods and materia	ls for Containment		e to do so. Contain the spilled liq rth. Clean up spills immediately.
Methods and materia	ls for cleaning up	sand or earth). Sco acceptable waste c absorbent and disp Section 13. Scrub t	erial with an inert absorbent (dry op contaminated absorbent into ontainer. Collect all contaminate ose of according to directions in he area with detergent and wate ated wash water for proper
Section 7- Handlin	ig and Storage		
Handling	Ś	disassembled, crus	plode or cause burns, if hed or exposed to fire or high ot short or install with incorrect
Storage	3)		, well-ventilated area away from ances. Store locked up. Keep ou Iren.
Other Precautions		industrial hygiene a	Handle in accordance with good and safety practice. Avoid contact lothing. Use personal protection
Section 8 - Exposi	ure Controls/Person	nal Protection	
Engineering Controls	5) (tilation to keep airborne . If used under conditions that

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	generate particulates, the ACGIH TLV-TWA of 3mg/m ³ respirable fraction (10mg/m ³ 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.

	Appearance: Prismatic
Physical State	Color: Blue
	Odour: If leaking, smells of 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 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.
Incompatible materials	Acids, Oxidizing agents, Bases.
Hazardous Decomposition Products	Carbon oxides.

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Irritation		In the event of exposure to internal contents, vapou fumes may be very irritating to the eyes and skin.
Sensitization		Not Available.
Reproductive Toxicity	Sec. 1	Not Available.
Toxicologically Synergistic M	laterials	Not Available.
) <u>(</u> C`)		
Section 12-Ecological Int	formation	
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.
		Deserted batteries shouldn't be treated as ordinary trash. Shouldn't be thrown into fire or placed in high
Attention for Waste Treatmen	nt	trash. Shouldn't be thrown into fire or placed in high temperature. Shouldn't be dissected, pierced,
Attention for Waste Treatmen	nt	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		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
		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
Section 14 – Transport Ir	Aformation 3480 & 3481 Lithium ion batte Lithium ion batte polymer batteries	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. ries (limited to a maximum of 30% SoC) or; ries packed with equipment (including lithium ion s) or; ries contained in equipments (including lithium ion
Section 14 – Transport Ir UN number	nformation 3480 & 3481 Lithium ion batte Lithium ion batte polymer batteries Lithium ion batte	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. ries (limited to a maximum of 30% SoC) or; ries packed with equipment (including lithium ion s) or; ries contained in equipments (including lithium ion

and PI 967 Section II appropriate of IATA DGR 63'd (2022 Edition) fo transportation.MDG 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 t requirements of special provision 188 of Chapter 3.3. Applicable as fr 1 January 2021.n addition, to be permitted in transport each lithium cell and battery types must have passed the applicable rests set out in Subsection 38.3 of the UN Manual of Tests and Criteria.		Material Safety Data Sheet
MDG CODE: 40-20) according to special provision 188. 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 t requirements of special provision 188 of Chapter 3.3. Applicable as fr 1 January 2021. n 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 (21st revised edition) Recommendations on the Transport of Dangerous Goods-Manual of Tests and Criteria International Air Transport Association (IATA)	CAO / IATA:	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 63 rd (2022 Edition) for
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 t requirements of special provision 188 of Chapter 3.3. Applicable as fr 1 January 2021. 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 (21st revised edition) Recommendations on the Transport of Dangerous Goods-Manual of Tests and Criteria International Air Transport Association (IATA)	IMDG CODE:	
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Recommendations on the Transport of Dangerous Goods-Manual of Tests and Criteria International Air Transport Association (IATA)	Dangerous Goods Regulation	ns
International Maritime Dangerous Goods (IMDG Code 2020 Edition Amdt 40-20)	International Air Transport As	ssociation (IATA)
	International Maritime Dange	rous Goods (IMDG Code 2020 Edition Amdt 40-20)

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

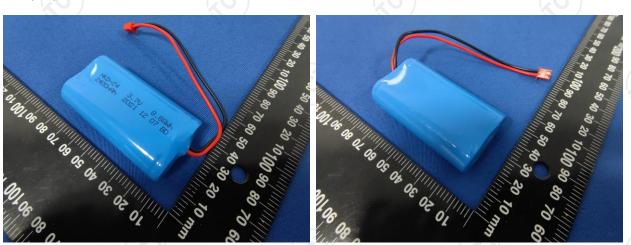


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Section 16 – Additional Information

MSDS creation date: 2022 Version: 1.0

Sample photo:



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*******End of report******

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