

MSDS Report

Applicant's name	Dongguan Wiliyoung Electronics Co., Ltd.	
Applicant's Address	No.5, Wenming 1 Street, Jinhe Community, Zhangmutou Town, Dongguan City, Guangdong Prov.	
Name of Sample	Rechargeable Li-ion Battery	
Model	103450	
Nominal Voltage	3.7V	
Rated Capacity	2000mAh, 7.4Wh	
Weight	32.9g	
Size (L×W×T)	(53.0×34.5×10.5)mm	
Prepared By	Shenzhen TCT Testing Technology Co., Ltd. 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China.	
Report No.	TCT210114M278	

Written by: Approved by:

Inspected by:_ Date:

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Section 1- Chemical Product & Company Identification		
Name of Sample	Rechargeable Li-ion Battery	
Manufacturer's name	Dongguan Wiliyoung Electronics Co., Ltd.	
Manufacturer's Address	No.5, Wenming 1 Street, Jinhe Community, Zhangmutou Town, Dongguan City, Guangdong Prov.	
Contact Person	Mr. Luo	
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Emergency Tel	+86-769-82932326	
E-mail	396714398@qq.com	

Section 2- Hazards Identification			
Classification of Danger	See section 14.		
Primary Route(s) of Exposure	Eye, skin contact, ingestion.		
Health Hazard	The batteries are not hazardous when used according to the instructions of manufacturer under normal conditions. In case of abuse, there's Hazard of rupture, fire, heat, leakage of internal components, which could cause casualty loss. Abuses including but not limited to the following cases: charged for long time, short circuited, put into fire, whacked with hard object, punctured with acute object, crushed, and broken.		

Report No.: TCT210114M278 Page 2 of 8
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Section 3- Composition/Information on Ingredients			
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.

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 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.: TCT210114M278 Page 3 of 8

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



Attention in Fire-extinguishing

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 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/Personal Protection		
Engineering Controls	Use adequate ventilation to keep airborne concentrations low. If used under conditions that generate particulates, the ACGIH TLV-TWA of 3mg/m³ respirable fraction (10mg/m³ total) should be observed.	

Report No.: TCT210114M278 Page 4 of 8
Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com



Eye and Face Protection: None required for

limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

	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

Section 9- Fily	sical and Chemical Properties			
	Appearance: Prismatic		<i>Y</i>	
Physical State	Color: Silver	(¿C		
	Odour: If leaking, smells of medical ether.	Odour: If leaking, smells of medical ether.		
Change in condit	ion			
рН	Not applicable as supplied.		6	
Flash Point	Not applicable unless individual components exposed.			
Flammability	Not applicable unless individual components exposed.			
Relative density:	Not applicable unless individual components ex	kposed.		
Solubility (water)	Not applicable unless individual components ex	xposed.		
Solubility (other)	Not applicable unless individual components ex	cposed.	0	

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.	

Report No.: TCT210114M278 Page 5 of 8
Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com



Section 11 – Toxicological Information	
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 Information	
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 chemical product in environment/possible environmental impact/ ecotoxicity	Not Available.

Section 13 – Disposal Considerations	
Waste Treatment	Recycle or dispose of in accordance with government, state & local regulations.
Attention for Waste Treatment	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 Information		
UN number	3481	
Proper shipping name	Lithium ion batteries contained in equipments (including lithium ion polymer batteries)	
Label(s) / Placard Required	Miscellaneous Lithium batt	
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 967 Section II appropriate of IATA	

Report No.: TCT210114M278 Page 6 of 8
Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com



	DGR 62 nd (2021 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 (21st 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

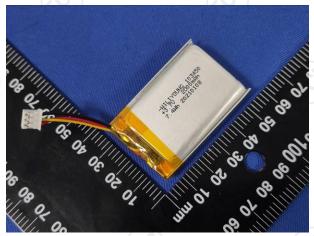
Report No.: TCT210114M278 Page 7 of 8
Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

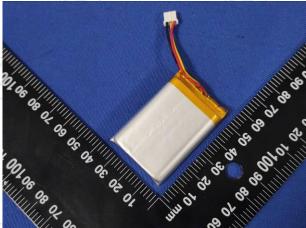


Section 16 – Additional Information

MSDS creation date: 2021 Version: 1.0

Sample photo:





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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*****

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Report Search Number: TCT210114M278

Search System: http://www.tct-lab.com Page 8 of 8