

Report No.:22ZCTB12290	01S	P Issue Date: 2023-01-03 Page 1 of 10
Applicant	:	Shenzhen Elephant technology Co., ltd
Address	:	Room 401,4th floor,xinda building,dongfang business building, baomin sec
		ond road, xixiang street, baoan district, shenzhen
Product Name	:	Lithium-ion Battery
Model No.	:	PL104050
Product Specification	:	3.7V/2500mAh/9.25Wh
Manufacturer	:	Shenzhen Elephant technology Co., Itd
Address	:	Room 401,4th floor,xinda building,dongfang business building, baomin sec
		ond road, xixiang street, baoan district, shenzhen
Sample Received Date	:	2022-12-26
Completed Date	:	2023-01-03

Prepare by: Anne

Alex Li

Checked by:Allie

Tomp N





Shenzhen ZCT Technology Co., Ltd.

 Add: 3/F.,Building 5, Hongsheng Industrial Zone, Bao'an Road, Xixiang Street,Bao'an District, Shenzhen, Guangdong, China.
Tell: 400-669-6965 Tell: 86-755-23702323
Url: www.renzhengjiance.com Email: info@renzhengjiance.com



Report No.:22ZCTB1229001SP

Issue Date:2023-01-03

Page 2 of 10

Material Safety Data Sheet

Product Identification	
Product Name:	Lithium-ion Battery
Model No.:	PL104050
Applicant:	Shenzhen Elephant technology Co., Itd
Address:	Room 401,4th floor,xinda building,dongfang business building, baomin second
	road, xixiang street, baoan district, shenzhen
Manufacturer:	Shenzhen Elephant technology Co., ltd.
Address:	Room 401,4th floor,xinda building,dongfang business building, baomin second
Address.	road, xixiang street, baoan district, shenzhen
Contact Person:	Liu xiao lin
E-mail:	N/A
TEL	13798435869

Section 1 - Chemical Product and Company Identification

Section 2- Hazard identification

Classification of the	Acute toxicity - Oral, Category 3
substance or mixture:	Skin corrosion, Category 1A
	Serious eye damage, Category 1
	Specific target organ toxicity – repeated exposure, Category 1



 Add: 3/F.,Building 5, Hongsheng Industrial Zone, Bao'an Road, Xixiang Street,Bao'an District, Shenzhen, Guangdong, China.
Tell: 400-669-6965 Tell: 86-755-23702323
Url: www.renzhengjiance.com Email: info@renzhengjiance.com

Shenzhen ZCT Technology Co., Ltd.



Report No.:22ZCTB1229001SP

Issue Date:2023-01-03

Page 3 of 10

GHS label elements,	Pictogram:
including precautionary statements:	
	Signal word: Danger
	Hazard statement(s):
	H301 Toxic if swallowed
	H314 Causes severe skin burns and eye damage
	H372 Causes damage to organs through prolonged or repeated exposure
	H361 Suspected of damaging fertility or the unborn child
GHS label elements,	Precautionary statement(s):
including precautionary	Prevention
statements:	P201 Obtain special instructions before use.
	P202 Do not handle until all safety precautions have been read and understood.
	P264 Wash thoroughly after handling.
	P270 Do not eat, drink or smoke when using this product.
	P260 Do not breathe dust/fume/gas/mist/vapours/spray.
	P280 Wear protective gloves/protective clothing/eye protection/face protection.
	Response P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/
	P321 Specific treatment (see on this label).
	P330 Rinse mouth.
	P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
	P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated
	clothing. Rinse skin with water [or shower].
	P363 Wash contaminated clothing before reuse.
	P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for
	breathing.
	P310 Immediately call a POISON CENTER/doctor/
	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.
	Remove contact lenses, if present and easy to do. Continue rinsing.
	P314 Get medical advice/attention if you feel unwell.
	P308+P313 IF exposed or concerned: Get medical advice/ attention.
	Storage P405 Store locked up.
	Disposal
	νιομοσαι





Report No.:22ZCTB1229001SP

Issue Date:2023-01-03

Page 4 of 10

	P501 Dispose of contents/container to Supplemental Hazard :none
Other hazards which do	none
not result in	
classification	

Section 3 - Composition/Information on Ingredients

Chmical Name	CAS No.	Composition In %by weight
Lithium lobalt Oxide	12190-79-3	35
Graphite	7782-42-5	20
Copper(Cu)	7440-50-8	9
Aluminum(AI)	7429-90-5	6
Ethylene Carbonate	96-49-1	14
Plypropglene	115-07-1	6
Carbonate methylethyl		5
Phosphate(1-),hexaflvoro-,lithium	94249-01-1	6

Section 4 - First-aid Measures

General Advice	The chemicals and metals in this product are contained in a sealed can. Exposure to the contents will not occur unless the battery leaks, is exposed to high temperatures or is mechanically, physically, or electrically abused.
Eyes	If battery is leaking and material contacts the eye, flush thoroughly with copious amounts of running water for 30 minutes. Seek immediate medical advice.
Skin	If battery is leaking and material contacts the skin, remove any contaminated clothing and flush exposed skin with copious amounts of running water for at least 15 minutes. If irritation, injury or pain persists, seek medical advice.
Inhaled	If battery is leaking, contents may be irritating to respiratory passages. Move to fresh air. If irritation persists, seek medical advice.
Swallowed	If battery is swallowed seek immediate medical advice. Batteries lodged in the esophagus should be removed immediately since leakage, caustic burns and perforation can occur as soon as two hours after ingestion. If mouth area irritation or burning has occurred, rinse the mouth and surrounding area with tepid water for at least 15 minutes. Do not give ipecac.





Report No.:22ZCTB1229001SP

Issue Date:2023-01-03

Page 5 of 10

Section 5 - Fire Fighting Measures

Fire and Explosion	Batteries may burst and release hazardous decomposition products when exposed
Hazards	to a fire situation.
Extinguishing Media	Use any extinguishing media that is appropriate for the surrounding fire.
Special Fire Fighting	Firefighters should wear positive pressure self-contained breathing apparatus and
Procedures	full protective clothing. Fight fire from a distance or protected area. Cool fire
	exposed batteries to prevent rupture. Use caution when handling fire-exposed
	containers (batteries may explode in heat of fire).
Hazardous	Thermal degradation may produce hazardous fumes of lithium and manganese;
Combustion Products	hydrofluoric acid, oxides of carbon and sulfur and other toxic by-products.

Section 6 - Accidental Release Measures

Notify safety personnel of large spills. Irritating vapors and flammable may be released from leaking or ruptured batteries. Eliminate all ignition sources. Evacuate the area and allow the vapors to dissipate. Clean-up personnel should wear appropriate protective clothing to avoid eye and skin contact and inhalation of vapors or fumes. Increase ventilation. Carefully collect batteries and place in an appropriate container for disposal. Remove spilled liquid with absorbent and contain for disposal.

Section 7 –Handling And Storage

Handling	Avoid mechanical or electrical abuse. DO NOT short circuit or install incorrectly.
	Batteries may explode, pyrolize or vent if disassembled, crushed, recharged or
	exposed to high temperatures. Install batteries in accordance with equipment
	instructions. Replace all batteries in equipment at the same time. Do not carry
	batteries loose in a pocket or bag.
Storage	Store batteries in a dry place at normal room temperature.

Shenzhen ZCT Technology Co., Ltd.





Report No.:22ZCTB1229001SP

Issue Date:2023-01-03

Page 6 of 10

Section 8 - Exposure Controls/Personal Protection

Respiratory Protection	In case of battery venting, provide as much ventilation as possible. Avoid confined
	areas with venting cell cores.
	Respiratory Protection is not necessary under conditions of normal use.
Ventilation	Not necessary under conditions of normal use.
Other Protective	Not necessary under conditions of normal use.
Clothing or Equipment	
Personal Protection is	Respiratory Protection, Protective Gloves, Protective Clothing and safety glass
recommended for	with side shields.
venting battery	

Section 9 - Physical and Chemical Properties

Appearance	rectangle
Odour	Odorlessness
Colour	Silvery
рН	Not applicable
Flash Point	Not applicable
Flammability	Not applicable
Relative density	Not applicable
Solubility (water)	Not applicable
Solubility (other)	Not applicable

Section 10 - Stability and Reactivity

Stability	This product is stable.
Incompatibility/Conditi	Contents are incompatible with strong oxidizing agents. Do not heat, crush,
ons to Avoid	disassemble, short circuit or recharge.
Hazardous	Thermal decomposition may produce hazardous fumes of lithium and
Decomposition	manganese; hydrofluoric acid, oxides of carbon and sulfur and other toxic
Products	by-products.
Hazardous	Will not occur
Polymerization	





Report No.:22ZCTB1229001SP

Issue Date:2023-01-03

Page 7 of 10

Section 11 - Toxicological Information

Potential Health	The chemicals and metals in this product are contained in a sealed can. Exposure			
Effects	to the contents will not occur unless the battery leaks, is exposed to high			
	temperatures or is mechanically, physically, or electrically abused.			
Eye Contact	Contact with battery contents may cause irritation.			
Skin Contact	Contact with battery contents may cause irritation.			
Inhalation	Inhalation of vapors or fumes released due to heat or a large number of leaking			
	batteries may cause respiratory and eye irritation.			
Ingestion	Swallowing is not anticipated for larger batteries due to battery size. Smaller			
	batteries may be swallowed. If battery is swallowed, seek immediate medical			
	advice. Batteries lodged in the esophagus should be removed immediately since			
	leakage, caustic burns and perforation can occur as soon as two hours after			
	ingestion. Irritation to the internal/external mouth areas, may occur following			
	exposure to a leaking battery.			
Chronic Effects	The chemicals in this product are contained in a sealed can and exposure does not			
	occur during normal handling and use. No chronic effects would be expected from			
	handling a leaking battery.			
Target Organs	Skin, eyes and respiratory system.			
Carcinogenicity	None of the components of this product are listed as carcinogens by the EU			
	Directive on the classification and labeling of substances.			

Section 12 - Ecological Information

No ecotoxicity data is available. This product is not expected to present an environmental hazard.

Section 13 - Disposal

Do not incinerate or subject cells to temperature in excess of 80°C.Dispose of in accordance with local regulations.

Section 14 - Transport Information

All lithium, lithium ion and lithium polymer cells and batteries must be tested in accordance with the "UN Manual of Tests and Criteria, Part III, Subsection 38.3 2017.



Shenzhen ZCT Technology Co., Ltd.



Report No.:22ZCTB1229001SP

Issue Date:2023-01-03

Page 8 of 10

The 63rd edition of the IATA Dangerous Goods Regulations incorporates all amendments made by the ICAO Dangerous Goods Panel in developing the content of the 2022 edition of the ICAO Technical Instructions as well as changes adopted by the IATA Dangerous Goods Board.

Their regulations are based on the UN Recommendations. The UN Recommendations require that lithium ion cells and batteries shall be manufactured under a quality management program and this requirement is adopted by IMDG Code and IMDG CODE (inc. Amendment 40-20) 2020.

The following list is intended to assist the user to identify the main changes introduced in this edition and must not be considered an exhaustive listing. The changes have been prefaced by the section or subsection in which the change occurs.

Shipping Name (UN Number):

Lithium ion batteries (UN3480)

Lithium ion batteries packed with equipment (UN3481)

Lithium ion batteries contained in equipment (UN3481)

Hazard Classification: Class 9 (Miscellaneous)

Organizations governing the transport of lithium cell are as follows,

Area	Method	Organization	Packing Instruction or Special Provision
International	Air	IATA, ICAO	Section II of 63 rd Edition,2022, PI 965-967
International	Maritime	IMO	SP 188
U.S.A	Air, Rail, Road, Maritime	DOT	49 CFR Section 173.185

Cells and batteries must be packed in inner packaging that completely encloses the cell or battery. Cells and batteries must be protected so as to prevent short circuits. This includes protection against contact

with conductive materials within the same packaging that could lead to a short circuit.

Each consignment must be accompanied with a document such as an air waybill with an indication that:

• the package contains lithium ion cells or batteries;

• the package must be handled with care, and that a flammability hazard exists if the package is damaged;

• special procedures should be followed in the event the package is damaged, to include inspection and repacking if necessary; and

• a telephone number for additional information.

Each package must be labelled with a lithium battery handling label;

Any person preparing or offering cells or batteries for transport must receive adequate instruction on these requirements commensurate with their responsibilities.





Report No.:22ZCTB1229001SP

Issue Date:2023-01-03

Page 9 of 10

Section 15 - Regulatory Information

Special requirement be according to the local regulations.

《Dangerous Goods Regulations》 «Recommendations on the Transport of Dangerous Goods Model Regulations» 《International Maritime Dangerous Goods》 «Technical Instructions for the Safe Transport of Dangerous Goods» «Classification and code of dangerous goods » (Occupational Safety and Health Act) (OSHA) «Toxic Substance Control Act» (TSCA) 《Consumer Product Safety Act 》 (CPSA) 《Federal Environmental Pollution Control Act》(FEPCA) 《The Oil Pollution Act》(OPA) «Superfund Amendments and Reauthorization Act Title III (302/311/312/313) » (SARA) 《Resource Conservation and Recovery Act》(RCRA) 《Safety Drinking Water Act》(CWA) «California Proposition 65» «Code of Federal Regulations» (CFR) 《2020 Lithium battery guidance document, revision 1》

Section 16 - Other Information

Note	This Sheet is provided as technical information only. The information and recommendations	
	set forth are made in good faith and believed to be accurate as of the date of preparation.	
	Shenzhen ZCT Technology Co., Ltd. makes no warranty, expressed or implied, with respect	
	to this information and disclaims all liabilities from reliance on it.	



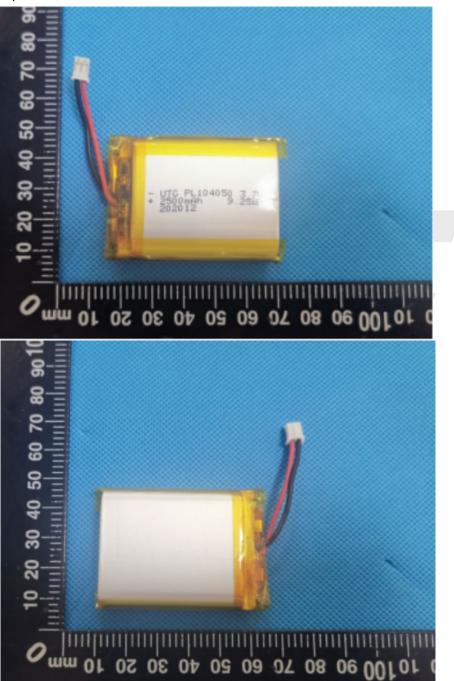


Report No.:22ZCTB1229001SP

Issue Date:2023-01-03

Page 10 of 10

Photo of Sample:



End of MSDS

Shenzhen ZCT Technology Co., Ltd.

 Add: 3/F.,Building 5, Hongsheng Industrial Zone, Bao'an Road, Xixiang Street,Bao'an District, Shenzhen, Guangdong, China.
Tell: 400-669-6965 Tell: 86-755-23702323
Url: www.renzhengjiance.com Email: info@renzhengjiance.com

