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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. : PL103048

Product Specification : 3.7V/1800mAh/6.66Wh

Manufacturer : Shenzhen Elephant technology Co.,ltd

Address : Room 401,4th floor,xinda building,dongfang business building, baomin sec

ond road, xixiang street, baoan district, shenzhen

Sample Received Date : 2022-12-19

Completed Date : 2023-01-03

Prepare by: Anne

Checked by:Allie

Alex Li

Tony Wu



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





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Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

Product Identification

Product Name:	Lithium-ion Battery	
Model No.:	PL103048	
Applicant:	Shenzhen Elephant technology Co.,ltd	
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 road, xixiang street, baoan district, shenzhen	
Contact Person:	Liuxiaolin	
E-mail:		
TEL	13798435869	

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	





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GHS label elements, including precautionary statements:

Pictogram:







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, including precautionary statements:

Precautionary statement(s):

Prevention

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

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	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
2. Graphite	7782-42-5	20
3. Copper	7440-50-8	9
4. Aluminum	7429-90-5	6
5. Ethylene Carbonate	96-49-1	14
6. Plypropglene	115-07-1	6
7. Carbonate methylethyl	-	5

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.

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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

	<u> </u>
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.





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Section 8 - Exposure Controls/Personal Protection

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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	square
Odour	Odorlessness
Colour	blue
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		

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Section 11 - Toxicological Information

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.	
Contact with battery contents may cause irritation.	
Contact with battery contents may cause irritation.	
Inhalation of vapors or fumes released due to heat or a large number of leaking	
batteries may cause respiratory and eye irritation.	
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.	
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.	
Skin, eyes and respiratory system.	
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℃. 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.

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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.

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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.
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End of MSDS

