

Applicant : Shenzhen Xusheng Weiye Electronics Technology Co. Ltd.

Address : 4 / F, building b 1, Fuhai Science and Technology Industrial Park, Fuyong

community, Fuyong Street, Bao 'an district, Shenzhen

Sample Name : lithium cell
Model No. : 18650
Trade Mark : XSWY

Product Specification : 12V/4000mAh/48Wh

Manufacturer : Shenzhen Xusheng Weiye Electronics Technology Co. Ltd.

Address : 4 / F, building b 1, Fuhai Science and Technology Industrial Park, Fuyong

community, Fuyong Street, Bao 'an district, Shenzhen

Sample Received Date : Dec. 30, 2021 Completed Date : Jan. 05, 2022

Signed for and on Behalf of ZCT

Tomy Wul Laboratory manager Shenzhen ZCI Technology Co. Lt





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Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

Product Identification

lithium cell
18650
Shenzhen Xusheng Weiye Electronics Technology Co. Ltd.
4 / F, building b 1, Fuhai Science and Technology Industrial Park, Fuyong community, Fuyong Street, Bao 'an district, Shenzhen
Shenzhen Xusheng Weiye Electronics Technology Co. Ltd.
4 / F, building b 1, Fuhai Science and Technology Industrial Park, Fuyong community, Fuyong Street, Bao 'an district, Shenzhen
Mr. Ding
316981191@QQ.com
15818615316
N/A

Section 2- Hazard identification

Classification of the	Flammable liquids (Category 3), H226
substance or mixture:	Flammable solids (Category 1), H228
	Acute toxicity, Oral (Category 4), H302
	Skin corrosion (Category 1A), H314
	Specific target organ toxicity - repeated exposure (Category 1), H372
	Acute aquatic toxicity (Category 1), H400
	Chronic aquatic toxicity (Category 3), H412
	Skin sensitisation (Category 1), H317
	Carcinogenicity (Category 1B), H350
GHS label elements,	Pictogram:
including precautionary statements:	





	Signal word: Danger
GHS label elements,	Hazard statement(s):
including precautionary	H226 Flammable liquid and vapour.
statements :	H228 Flammable solid.
	H302 Harmful if swallowed.
	H314 Causes severe skin burns and eye damage.
	H372 Causes damage to organs through prolonged or repeatedexposure.
	H410 Very toxic to aquatic life with long lasting effects.
	H317 May cause an allergic skin reaction.
	H350 May cause cancer.
	H351 Suspected of causing cancer.
	Precautionary statement(s):
	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
	P201 Obtain special instructions before use.
	P260 Do not breathe dust/fume/gas/mist/vapours/spray.
	P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
	P273 Avoid release to the environment
	P303 + P361 + P353 IF ON SKIN (or hair): Take offimmediately all
	contaminated clothing.
	P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove
	P370 + P378 In case of fire: Use dry powder or dry sand to extinguish
	P308 + P313 IF exposed or concerned: Get medical advice/ attention.
	Supplemental Hazard :none
Other hazards which do	This substance/mixture contains no components considered to be either
not result in	persistent, bioaccumulative and toxic (PBT), or very persistent and very
classification	bioaccumulative (vPvB) at levels of 0.1% or higher.





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Section 3 - Composition/Information on Ingredients

Chemical Composition	CAS NO.	Weight(%)
Lithium Cobalt Dioxide (LiCoO2)	12190-79-3	32.32
Graphite (C)	7782-42-5	28.33
Poly Vnylidene Fluoride (PVDF)	24937-79-9	13.64
Acetylene Black	1333-86-4	2.48
Electrolyte	623-53-0/21324-40-3	10.32
Others	-	12.91

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
Hazards	exposed 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
Procedures	and 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 offire).
Hazardous Combustion	Thermal degradation may produce hazardous fumes of lithium and manganese;
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.





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Section 8 - Exposure Controls/Personal Protection

COCHOIL C Expedition	
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	oblong
Odour	Odorlessness
Colour	blove
pH	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/Conditio	Contents are incompatible with strong oxidizing agents. Do not heat, crush,
ns 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	





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°C. Dispose of in accordance with local regulations.





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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.

The 60th edition of the IATA Dangerous Goods Regulations incorporates all amendments made by the ICAO Dangerous Goods Panel in developing the content of the 2019edition 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 ICAO TI/IATA DGR.

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.

UN number

UN3480. PACKING INSTRUCTION 965 Single Lithium-ion Batteries only.

Proper shipping name

Air transport (ICAO/IATA) lithium cell Sea transport (IMDG) lithium cell lithium cell Inland waterway transport (ADN) Land transport (ADR/RID) lithium cell

Hazard Class

Air transport (ICAO/IATA) 9 9 Sea transport (IMDG) 9 Inland waterway transport (ADN) Land transport (ADR/RID) 9

Packing Group

Air transport (ICAO/IATA)

Sea transport (IMDG)

Inland waterway transport (ADN)

Land transport (ADR/RID)

Environmental Hazards

Dangerous goods

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Worldwide air transportation: The goods are packaged according to Section 1A of PACKING INSTRUCTION





965 of the 2020 IATA Dangerous Goods. Lithium-ion batteries may be air transported on CARGO AIRCRAFT ONLY and are forbidden in passenger aircraft.

Worldwide sea transportation: The goods are packaged according to the special provision 188 of IMDG. IMO-IMDG Code [P903]

Labeling

Use Class 9 Miscellaneous Dangerous Goods and UN Identification labels for transportation of lithium-ion batteries which are assigned Class 9. Refer to relevant transportation documents. Lithium and lithium-ion cells and batteries are regulated in the USA in accordance with Part 49 Regulations of the Code of Federal Regulations, (49 CFR Sections 105-180) of the U.S. Hazardous Materials Regulations.

Lithium-ion batteries, under UN3480, PI 965, Section IB







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.





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 »

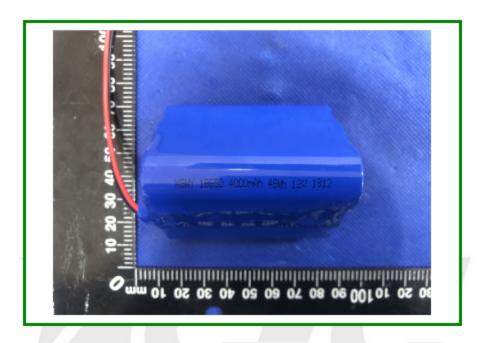
Section 16 - Other Information

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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	this information and disclaims all liabilities from reliance on it.





Photo(s) of Sample:



End of MSDS

