

MSDS

MATERIAL SAFETY DATA SHEET

Prepared For : SHENZHEN XTAR ELECTRONICS CO.,LTD

5th Floor, No.77 Xinhe Rd, Shangmugu, Pinghu Area, Longgang

District, Shenzhen, Guangdong, China

Prepared By : Shenzhen BCTC Testing Co., Ltd.

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Shenzhen, China

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Written by: ___Andre Yu

Approved by:





* The MSDS is prepared bas client's request.	ed on the information provided by	client. The contents and format	ts of this MSDS are revised as per
Section 1-Chemical Product and Company Identification			
Product Name	Rechargeable Li-ion Battery		
Model	18650 2600mAh		
Trade Mark	XTAR®	<u> </u>	
Ratings	3.7V, 2600mAh, 9.62Wh		
Weight	47g		
Manufacturer	SHENZHEN XTAR ELECTRO	NICS CO.,LTD	
Manufacturer address	5th Floor, No.77 Xinhe Rd, Sh Guangdong, China	angmugu, Pinghu Area, Lo	nggang District, Shenzhen,
Emergency Telephone	N/A	'C	(
Fax	N/A		
Section 2- Composition Information			
Chemical Composition	CAS No.	Weight (%)	Trade Secret
Lithium Cobalt Dioxide (LiCoO2)	12190-79-3	30-37	, C.
Graphite (C)	7782-42-5	15-20	*

Chemical Composition	CAS No.	Weight (%)	Trade Secret
Lithium Cobalt Dioxide (LiCoO2)	12190-79-3	30-37	*
Graphite (C)	7782-42-5	15-20	*
Poly Vnylidene Fluoride (PVDF)	24937-79-9	0-1	*
Acetylene Black	1333-86-4	0-1	*
Phosphate(1-), hexafluoro-, lithium	21324-40-3	12-16	· 80×
Polypropylene	9003-07-0	6-10	*
Aluminium	7429-90-5	2-5	*
Copper	7440-50-8	5-10	· R_
Iron	7439-89-6	10-15	- (2)

[&]quot;The exact percentage (concentration) of composition has been withheld as a trade secret.

Section 3- Hazards Identification		
Emergency overview:	N/A	
Classification according to GHS	Not a dangerous substance according to GHS	
Label elements:		



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Hazard pictogram(s)	Not Available		
Signal word	Not Available		
Hazard statement(s)	Not Available		
Precautionary statement(s):	80		
Prevention	Not Available		
Response	Not Available		
Disposal	Not Available		
Environmental hazards:	No relevant information		
Important symptoms:	See section 11 for more information		
S	ection 4- First Aid Measures		
Eye contact	Flush eyes with plenty of water for least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.		
Skin contact	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.		
Sec	tion 5- Fire Fighting Measures		
Flash Point	N/A		
Auto-Ignition Temperature	N/A		
Extinguishing Media	H ₂ O, CO ₂		
Special Fire-Fighting Procedures	Self-contained breathing apparatus		
Unusual Fire and Explosion Hazards	Cell may vent when subjected to excessive heat-exposing battery contents		
Hazardous Combustion Products	Carbon monoxide, carbon dioxide, lithium oxide fumes.		
Soction	A A A A A A A A A A A A A A A A A A A		

Section 6- Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

If the battery is released, remove personnel from area until fumes dissipate. Provide maximum ventilation to clear out hazardous gases. The preferred response is to leave the area and allow the vapors to dissipate. Avoid skin and eyes contact or inhalation of vapors. Remove spilled liquid with absorbent and incinerated. If leakage of the battery happens, liquid could be absorbed with sand, earth or other inert substance and contaminated area should be ventilated meantime.



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Environment precautions:

Do not allow product to reach sewage system or any water source.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers surface or ground water.

Methods and material for containment and cleaning up:

If battery casing is dismantled, small amounts of electrolyte may leak. Collect all released material in a plastic lined container. Dispose off according to the local law and rules. Avoid leached substances to get into the earth, canalization or waters.

ction 7- Handling and Storage		
The battery should not be opened, destroyed or incinerate, since they may leak or rupture and release to the environment the ingredients that they contain in the hermetically sealed container. Do not short circuit terminals, or over charge the battery, forced over-discharge, throw to fire. Do not crush or puncture the battery, or immerse in liquids. Avoid mechanical or electrical abuse. Storage preferably in cool, dry and ventilated area, which is subject to little temperature change. Storage at high temperatures should be avoided. Do not place the battery near heating equipment, nor expose to direct sunlight for long periods.		
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.		
Exposure Controls/Personal Protection		
Use local exhaust ventilation or other engineering controls to control source of dust, mist, fumes and vapor. Keep away from heat and open flame. Store in a cool, dry place.		
Respiratory Protection: Not necessary under normal conditions. Skin and body Protection: Not necessary under normal conditions, Wear suitable protective clothing and gloves if handling an open or leaking battery. Hand protection: Wear suitable gloves if handling an open or leaking battery. Eye Protection: Not necessary under normal conditions, Wear safety glasses if handling an open or leaking battery.		
Have a safety shower and eye wash fountain readily available in the immediate work area.		
Do not eat, drink, or smoke in work area. Maintain good housekeeping.		
9- Physical and Chemical Properties		
Solid		
Blue		
Not Available		
Not Available		



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Melting point/freezing point	Not Available	
Boiling Point and Boiling range	Not Available	
Flash Point	Not Available	
Upper/lower flammability or explosive limits	Not Available	
Vapor Pressure	Not Available	
Vapor Density	Not Available	
Relative density	Not Available	
Solubility in Water	Not Available	
Auto-ignition temperature	Not Available	
Decomposition temperature	Not Available	
Evaporation rate	Not Available	
Flammability (soil, gas)	Not Available	
Viscosity	Not Available	
Se	ection 10- Stability and reactivity	
Stability	The product is stable under conditions described Section 7	
Conditions to Avoid	Heat above 70°C or incinerate. Deform, Mutilate, Crush, Disassemble, Overcharge, Short circuit, Expose over a long period to humid conditions.	
Incompatible Materials	Oxidizing agents, acid, base.	
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide, lithium oxide fumes.	
Possibility of Hazardous Reaction	Not Available	
Sect	ion 11 – Toxicological Information	
() >	Risk of irritation occurs only if the cell is mechanically, thermally or electrically	
Irritation	abused to the point of compromising the enclosure. If this occurs, irritation to	
6	the skin, eyes and respiratory tract may occur.	
Sensitization	Not Available	
Neurological Effects	Not Available	
Teratogenicity	Not Available	
Reproductive Toxicity	Not Available	



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Mutagenicity (Genetic Effects)	Not Available		
Toxicologically Synergistic Materials	Not Available		
Se	ction 12- Ecologica	I Information	
Ecological Toxicity	Not Available		
Mobility in soil	Not Available		
Persistence and Degradability	Not Available		
Bioaccumulation potential	Not Available		
Other Adverse Effects	Not Available	Δ Δ	
Sec	tion 13- Disposal C	onsiderations	
Product disposal recommendation	Observe local, state and federal laws and regulations.		
Uncleaned packaging recommendation	Disposal must be made according to official regulations		
Sec	ction 14 – Transpor	rt Information	
Label for conveyance	Lithium Battery Label	OC>	
UN Number	UN 3480 or UN 3481		
Transport hazard class(es)	9		
Packing group			
Marine pollutant	No	Ro Ro	
Lithium ion Batteries (Including lithium ion polymer batteries) Lithium ion Batteries packed with equipment (Including lithium batteries)		ked with equipment (Including lithium ion polyme	
	Lithium ion Batteries conta batteries)	ained in equipments (Including lithium ion polymer	

Transport information:

Rechargeable Li-ion Battery (Sample Model: 18650 2600mAh) is tested and has passed in accordance with UN manual of Tests and Criteria, Part III, subsection 38.3.

The goods shall be complied with the requirements of Section IB~II of Packing Instruction 965 or of Section II of Packing Instruction 966 967 of 60th DGR Manual of IATA or special provision 188 of IMDG CODE (Amdt. 39-18).

Separate Lithium-ion batteries when shipping to prevent short-circuiting. They should be packed in strong packaging for support during transport, ensure that the goods will not falling, dropping, and breakage, Prevent collapse of cargo piles and wet by rain.

Transport Fashion: By air, by sea, by railway, by road.



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Section 15- Regulatory information

Law information

《Dangerous Goods Regulations》

《Recommendation 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)

In according with all Federal, State and local laws.

Section 16- Other Information

The information above is believed to be accurate and represents the best information currently available to us. However, concorde makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. Although reasonable precautions have been taken in the preparation of the data contained herein, it is offered solely for your information, consideration and investigation. This material safety data sheet provides guidelines for the safe handling and use of this product; it does not and cannot advise on all possible situations, therefore, your specific use of this product should be evaluated to determine if additional precautions are required.

-- End of Report --