

MSDS

MATERIAL SAFETY DATA SHEET

Report No.: BCTC2012699105B

Applicant: Dongguan Miyear Battery Co., Ltd

Product Name: Lithium-ion Polymer Battery

Product Type: M83500

Issued Date: 2021-01-04

Prepared By:

Issued By:

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APPROVED S

Shenzhen BCTC Testing Co., Ltd

No.: BCTC/RF-BAT-022

Lof 8 Edition : A



Label elements:

Signal word

Hazard pictogram(s)

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* The MSDS is prepared bas client's request.	sed on the info	ormation provided i	by client. The contents and formats	of this MSDS are revised as per			
Sec	ction 1-Ch	emical Produ	uct and Company Identifi	cation			
Product Name	Lithium-ion Polymer Battery						
Model	M83500						
Trade Mark	N/A						
Ratings	3.7V, 300mAh, 1.11Wh						
Weight	About 6.1g						
Manufacturer	Dongguan Miyear Battery Co., Ltd						
Manufacturer address	No.44, Shahe Road, Sicun Village, Tangxia Town, Dongguan City, PRC						
Emergency Telephone	+86-13825714002						
Fax							
Section 2- Composition Information							
Chemical Composition	C	CAS No.	Weight (%)	Trade Secret			
Lithium cobaltate	12	2190-79-3	15 - 30	*			
Graphite	7782-42-5		10 - 40	*			
Phosphate(1-), hexafluoro-, lithium	21324-40-3		10 - 25	*			
Copper	7440-50-8		7 - 20				
Aluminium	7429-90-5		5 - 8	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			
Nickel	7440-02-0		1 - 5				
" * " 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					

Not Available

Not Available



Not Available		
Not Available		
Not Available		
Not Available		
No relevant information		
See section 11 for more information		
Section 4- First Aid Measures		
Flush eyes with plenty of water for least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.		
Remove contaminated clothes and rinse skin with plenty of water or shower for 15 minutes. Get medical aid.		
Remove from exposure and move to fresh air immediately. Use oxygen if available.		
Give at least 2 glasses of milk or water. Induce vomiting unless patient is unconscious. Call a physician.		
Section 5- Fire Fighting Measures		
N/A		
N/A		
H ₂ O, CO ₂		
Self-contained breathing apparatus		
Cell may vent when subjected to excessive heat-exposing battery contents		
Carbon monoxide, carbon dioxide, lithium oxide fumes.		

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.



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.

canalization or waters.					
Section 7- Handling and Storage					
Handling	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.				
Storage	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.				
Other Precautions	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.				
Section 8- Exposure Controls/Personal Protection					
Engineering Controls	Use local exhaust ventilation or other engineering controls to control sources of dust, mist, fumes and vapor. Keep away from heat and open flame. Store in a cool, dry place.				
Personal Protective Equipment	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.				
Other Protective Equipment	Have a safety shower and eye wash fountain readily available in the immediate work area.				
Hygiene Measures	Do not eat, drink, or smoke in work area. Maintain good housekeeping.				
Section 9- Physical and Chemical Properties					
Form	Solid				
Color	Blue				
Odour	Not Available				



рН	Not Available			
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			
\$	Section 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			
Section 11 – Toxicological Information				
Irritation	Risk of irritation occurs only if the cell is mechanically, thermally or electrically abused to the point of compromising the enclosure. If this occurs, irritation to the skin, eyes and respiratory tract may occur.			
Sensitization	Not Available			
Neurological Effects Not Available				



Teratogenicity	Not Available				
Reproductive Toxicity	Not Available				
Mutagenicity (Genetic Effects)	Not Available				
Toxicologically Synergistic Materials	Not Available				
Section 12- Ecological Information					
Ecological Toxicity	Not Available				
Mobility in soil	Not Available				
Persistence and Degradability	Not Available				
Bioaccumulation potential	Not Available				
Other Adverse Effects	Not Available				
Section 13- Disposal Considerations					
Product disposal recommendation	Observe local, state and federal laws and regulations.				
Uncleaned packaging recommendation	Disposal must be made according to official regulations				
Section 14 – Transport Information					
UN Proper shipping name	PI 965 Lithium ion Batteries (Including lithium ion polymer batteries) PI 966 Lithium ion Batteries packed with equipment (Including lithium ion polymer batteries) PI967 Lithium ion Batteries contained in equipments (Including lithium ion polymer batteries)				
Transport information:					

Transport information:

Lithium Ion Battery (Sample Model: M 18500-2P) 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 or of 62nd 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.

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STATEMENT

- 1. The equipment lists are traceable to the national reference standards.
- 2.The test report can not be partially copied unless prior written approval is issued from our lab
- 3. The test report is invalid without stamp of laboratory.
- 4. The test report is invalid without signature of person(s) testing and authorizing.
- 5. The test process and test result is only related to the Unit Under Test.
- 6. The quality system of our laboratory is in accordance with ISO/IEC17025.
- 7.If there is any objection to report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

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