

# M S D S MATERIAL SAFETY DATA SHEET

Report No.:	BCTC2312317738B	
Applicant:	Shenzhen IMR Technology Co., Ltd.	
Product Name:	Lithium ion cell	
Product Type:	IMR18650	
Issued Date:	2024-01-05	
Prepared By:	George How	$M_{II}$
Issued By:	Andre In	

# Shenzhen BCTC Testing Co., Ltd



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* The MSDS is prepared based on the information provided by client. The contents and formats of this MSDS are
revised as per client's request.

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Section 1-Chemical Product and Company Identification				
Product Name	Lithium ion cell			
Model	IMR1865	IMR18650		
Trade Mark	N/A	N/A		
Ratings	3.7V, 2600mAh, 9.62Wh			
Weight	About 44.1g			
Manufacturer	HUNAN I	HUNAN IMR NEW ENERGY CO.,LIMITED		
Manufacturer address	Room 102, Building 4, Xinggong Science Park, No.100 Luyun Road, Changsha Hi-tech Development Zone			
Emergency Telephone	+0731-85	+0731-85528546		
Fax	N/A	N/A		
Section 2- Composition Information				
Chemical Composition		CAS No.	Weight (%)	Trade Secret
Lithium cobaltate	1	2190-79-3	15-40	*
Graphite	7	782-42-5	10-30	*
Phosphate(1-), hexafluoro-, lithium	2	1324-40-3	10-30	*
Copper	7	7440-50-8	7-13	*
Aluminium	7	429-90-5	5-10	* /
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:	mergency overview: N/A		XXXIII <i>II//////</i> //	
Classification according to	lassification according to GHS Not a dangerous substance according to GHS		XXXXII <i>II//////////////////////////////</i>	
Label elements:		1994.		
Hazard pictogram(s)	Not Available			

Hazard pictogram(s)	Not Available	
Signal word	Not Available	
Hazard statement(s)	Not Available	

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Precautionary statement(s):		
Prevention	Not Available	
Response	Not Available	
Disposal	Not Available	
Environmental hazards:	No relevant information	
Important symptoms:	See section 11 for more information	
	Section 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.	
	Section 5- Fire Fighting Measures	
Flash Point	N/A	
Auto-Ignition Temperature	N/A	
Extinguishing Media	H <sub>2</sub> O, CO <sub>2</sub>	
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.	
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### **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.

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#### 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.

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.	
Sectio	on 9- Physical and Chemical Properties	
Form	Solid	
Color	Multiple colors	
Odour	Not Available	
рН	Not Available	
Melting point/freezing point	Not Available	

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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
S	ection 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

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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
S	ection 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
S	Section 14 – Transport Information
UN Number	UN3480 or UN3481
UN Proper shipping name	PI965 Lithium ion Batteries PI966 Lithium ion Batteries packed with equipment PI967 Lithium ion Batteries contained in equipment
Criteria, Part III, subsection 38.3. The goods shall be complied with the Packing Instruction 966 967 of 65th Separate Lithium-ion batteries when for support during transport, ensure	18650) is tested and has passed in accordance with UN manual of Tests and e requirements of Section IB of Packing Instruction 965 or of Section II of DGR Manual of IATA or special provision 188 of IMDG CODE (Amdt. 41-22). shipping to prevent short-circuiting. They should be packed in strong packaging that the goods will not falling, dropping, and breakage, Prevent collapse of cargo
piles and wet by rain. Transport Fashion: By air, by sea	ı, by railway, by road.
5	Section 15- Regulatory information
Law information «Dangerous Goods Regulations» «Recommendation on the Transpor «International Maritime Dangerous «Technical Instructions for the Safe «Classification and code of dangerous	Transport of Dangerous Goods》

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《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. Sample information is provided by the customer and the laboratory is not responsible for its authenticity.
- 7. The quality system of our laboratory is in accordance with ISO/IEC17025.
- 8. If there is any objection to report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

#### Address:

1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China TEL : 400-788-9558

- P. C.: 518103
- FAX: 0755-33229357
- Website : http://www.chnbctc.com
- E-Mail : bctc@bctc-lab.com.cn

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