

MATERIAL SAFETY DATA SHEET

Lithium Cylindrical Rechargeable Battery

Model: Lithium-ion Cylindrical Battery

14430-650mAh

Prepared by		ed by	Approved by
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Date:	June.	21 , 2016	Date: June. 21, 2016

Material Safety Data Sheet

Section 1-Chemical Product and Company Identification



Product Identification

Lithium-Ion Cylindrical battery

14430-650mAh

Norminal Voltage : 3.7VEquivalent Lithium content : $\leq 20Wh$

Manufacturer

Huizhou Highpower Technology Co.,LTD Xinhu Industrial Zone,Maan Town,HuiCheng District,Huizhou,Guangdong, China

Postcode: 518110

Telephone : +86-752-5807919-8008

Fax : +86-752-5807900 E-mail : hzdcc@hfr.com.cn

Section 2-Composition/Information on Ingredients

Chemical Composition	Molecular Formula	Weight%	CAS No	OSHA(PEL)	ACGIH(TLV)
Co	Со	<40%	7440-48-4	N/A	N/A
Polyvinylidene fluoride	(CH₂CF₂)n	<2%	24937-79-9	N/A	N/A
Graphite powder	С	<30%	7782-42-5	N/A	N/A
Electrolyte	LiPF6 C3H4O3 C4H6O3 C3H10O3	<20%	21324-40-3	N/A	N/A
Polyethylene	(C ₂ H ₄) n	0.5-5%	9002-88-4	N/A	N/A
Copper foil	Cu	<10%	7440-50-8	N/A	N/A
Nickel	Nickel	0.5-5%	7440-02-0	N/A	N/A
Aluninum foil	Al	0.5-5%	7429-90-5	N/A	N/A

Section 3-Hazards Identification

Preparation	Not dangerous with normal use. Do not dismantle, open or shred Li-ion Battery.
hazards and	Exposure to the ingredients contained within or their ingredients products could be harmful.



Appearance, Color, and Odor Primary Route(s) of Exposure ACUTE (short term): see Section 8 for exposure controls In the event that this battery has been ruptured, the electrolyte solution contained within can occur by Inhalation, Ingestion, Eye contact and Skin contact. ACUTE (short term): see Section 8 for exposure controls In the event that this battery has been ruptured, the electrolyte solution contained within the battery would be corrosive and can cause burns. Inhalation: Inhalation of materials from a sealed battery is not an expected route of exposure. Vapors or mists from a ruptured battery may cause respiratory irritation. Ingestion: Swallowing of materials from a sealed battery is not an expected route of exposure. Swallowing the contents of an open battery can cause serious chemical burns of mouth, esophagus, and gastrointestinal tract. Skin: Contact between the battery and skin will not cause any harm. Skin contact with contents of an open battery can cause severe irritation or burns to the skin. Eye: Contact between the battery and the eye will not cause any harm. Eye contact with contents of an open battery can cause severe irritation or burns to the eye. CHRONIC (long term): see Section 11 for additional toxicological data Medical Conditions Aggravated by Exposure Reported as Not applicable	classification	
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Section 4-First-aid Measures

Inhalation	If contents of an opened battery are inhaled, remove source of contamination or move victim to fresh air. Obtain medical advice.
Skin contact	If skin contact with contents of an open battery occurs, as quickly as possible remove
	contaminated clothing, shoes and leather goods. Immediately flush with lukewarm, gently
	flowing water for at least 30 minutes. If irritation or pain persists, seek medical attention.
	Completely decontaminate clothing, shoes and leather goods before reuse or discard.



Eye contact	If eye contact with contents of an open battery occurs, immediately flush the contaminated	
	eye(s) with lukewarm, gently flowing water for at least 30 minutes while holding the eyelids	
	open. Neutral saline solution may be used as soon as it is available. If necessary, continue	
	flushing during transport to emergency care facility. Take care not to rinse contaminated	
	water into the unaffected eye or onto face. Quickly transport victim to an emergency care	
	facility.	
Ingestion	If ingestion of contents of an open battery occurs, never give anything by mouth if victim is	
	rapidly losing consciousness, or is unconscious or convulsing. Have victim rinse mouth	
	thoroughly with water. DO NOT INDUCE VOMITING. Have victim drink 60 to 240 mL	
	(2-8 oz.) of water. If vomiting occurs naturally, have victim lean forward to reduce risk of	
	aspiration. Have victim rinse mouth with water again. Quickly transport victim to an	
	emergency care facility.	

	Section 5-Fire Fighting Measures
Flammable	In the event that this battery has been ruptured, the electrolyte solution contain within the
Properties	battery would be flammable. Like any sealed container, battery cells may rupture when
	exposed to excessive heat; this could result in the release of flammable or corrosive materials.
Suitable	Use extinguishing media suitable for the materials that are burning.
extinguishing	
Media	
Unsuitable	Not available
extinguishing	
Media	
Explosion	Sensitivity to Mechanical Impact: This may result in rupture in extreme cases
Data	Sensitivity to Static Discharge: Not Applicable
Specific	Fires involving Li-ion Battery can be controlled with water. When water is used, however,
Hazards	hydrogen gas may evolve. In a confined space, hydrogen gas can form an explosive mixture.
arising from	In this situation, smothering agents are recommended to extinguish the fire
the chemical	
Protective	As for any fire, evacuate the area and fight the fire from a safe distance. Wear a
Equipment	pressure-demand, self-contained breathing apparatus and full protective gear.
and	Fight fire from a protected location or a safe distance. Use NIOSH/MSHA approved
precautions	full-face self-contained breathing apparatus(SCBA) with full protective gear.
for firefighters	
NFPA	Health: 0 Flammability: 0 Instability: 0

Section 6-Accidental Release Measures



Personal Precautions, protective equipment, and	Restrict access to area until completion of
emergency procedures	clean-up. Do not touch the spilled material. Wear
	adequate personal protective equipment as
	indicated in Section 8.
Environmental Precautions	Prevent material from contaminating soil and
	from entering sewers or waterways.
Methods and materials for Containment	Stop the leak if safe to do so. Contain the spilled
	liquid with dry sand or earth. Clean up spills
	immediately.
Methods and materials for cleaning up	Absorb spilled material with an inert absorbent (dry
	sand or earth). Scoop contaminated absorbent into an
	acceptable waste container.
	Collect all contaminated absorbent and dispose of
	according to directions in Section 13. Scrub the area
	with detergent and water; collect all contaminated
	wash water for proper disposal.

Section 7-Handling and Storage

Handling	Don't handling Li-ion Battery with metalwork. Do not
	open, dissemble, crush or burn battery.
	Ensure good ventilation/ exhaustion at the workplace.
	Prevent formation of dust. Information about
	protection against explosions and fires: Keep ignition
	sources away- Do not smoke.
Storage	If the Li-ion Battery are subject to storage for such a
	long term as more than 3 months, it is recommended
	to recharge the Li-ion Battery periodically.
	3 months: $-10 ^{\circ}\text{C} \sim +40 ^{\circ}\text{C}$, 45 to 85%RH And
	recommended at 0°C~+35°C for long period storage.
	The capacity recovery rate in the delivery state (50%
	capacity of fully charged) after storage is assumed to
	be 80% or more. The voltage for a long time storage
	shall be 3.7V~4.2V range.
	Do not storage Li-ion Battery haphazardly in a box or
	drawer where they may short-circuit each other or be
	short-circuited by other metal objects.
	Keep out of reach of children.
	Do not expose Li-ion Battery to heat or fire.
	Avoid storage in direct sunlight.
	Do not store together with oxidizing and acidic



	materials.

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 neoprene or nitrile rubber	
	gloves if handling an open or leaking battery.	
	Hand protection: Wear neoprene or natural rubber	
	material 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 Physical Form: Solid State Color: Green Odour: Monotony Change in condition: pH, with indication of the concentration Not applicable Melting point/freezing point Not available. Boiling Point, initial boiling point and Boiling Not available. range: Flash Point Not available. Upper/lower flammability or explosive limits Not available.



Vapor Pressure:	Not applicable
Vapor Density: (Air = 1)	Not applicable
Density/relative desity	Not available.
Solubility in Water:	Insoluble
n-octanol/water partition coefficient	Not available.
Auto-ignition temperature	If possible remove cell(s)from fire fighting area.if heated above 130°C ,cell(s)can explode/ent. Cell is not flammable but internal organic material will burn if the cell is incinerated.
Decomposition temperature	Not available.
Odout threshold	Not available.
Evaporation rate	Not available.
Flammability (soil, gas)	Not available.
Viscosity	Not applicable

Section 10- Stability and Reactivity			
Stability	The product is stable under normal conditions.		
Conditions to Avoid (e.g. static discharge, shockor vibration)	Do not subject Li-ion Batteryto mechanical shock. Vibration encoutered during transportation does not cause leakage, fire or explosion. Do not disassemble, crush, short or install with incorrect polarity. Avoid mechanical or electrical abuse.		
Incompatible Materials	Not Available		
Hazardous Decomposition Products	This material may release toxic fumes if burned or exposed to fire		
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	
Teratoaenicity	Not Available	
Reproductive Toxicity	Not Available	
Mutagenicity (Genetic Effects)	Not Available	
Toxicologically Synergistic Materials	Not Available	

Section 12-Ecological Information			
General note:	Water hazard class 1(Self-assessment): slightly		
	hazardous for water.		
	Do not allow undiluted product or large quantities		
	of it to reach ground water, water course or		
	sewage system.		
Anticipated behavior of a chemical product in	Not Available		
environment/possible environmental			
impace / ecotoxicity			
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. Packaging disposal recommendation: Be aware discarded batteries may cause fire, tape the battery terminals to insulate them. Don't disassembly the battery. Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local, state and federal laws and regulations.

The potential effects on the environment and human health of the substances used in batteries and accumulations; the desirability of not disposing of waste batteries and accumulators as unsorted municipal waste and of participating in their separate collection so as to facilitate treatment and recycling.

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Section 14-Transport Information

This report applies to by sea, by air and by land;

The Li-ion Battery tested according to the requirements of the 5th revised edition of the UN manual of tests and Criteria, Part III, subsection 38.3;

Lithium ion battery was protected so as to prevent short circuits. This includes protection against contact with conductive materials within the same packaging that could lead to short circuit;

The LITHIUM ION BATTERY according to Section II of PACKING INSTRUCTION 965-967 of the 2016 IATA Dangerous Goods regulations 57th Edition may be transported and applicable U.S.DOT regulations for the safe transport of Li-ion Battery.

More information concerning shipping, testing, marking and packaging can be obtained from label master at http://www.labelmaster.com/.

The packaging shall be adequate to avoid mechanical damage during transport, handling and stacking. The materials and pack design shall be chosen so as to prevent the development of unintentional electrical conduction, corrosion of the terminals and ingress of moisture.

The package must be handled with care and that a flammability hazard exists if the package is damaged; Each package must be labeled with a Li-ion Battery handling label or in addition to the Class 9 hazard label. With regard to transport, the following regulations are cited and considered:

- The International Civil Aviation Organization (ICAO) Technical Instructions.
- The International Air transport Association (IATA) Dangerous Goods Regulations. UN number of lithium battery: UN3480 or UN3481;

UN Proper shipping name/Description (technical name): Lithium ion batteries or Lithium ion batteries contained in equipment or Lithium ion batteries packed with equipment;

UN Classification (Transport hazard class): Non dangerous;

Marine pollutant (Y/N): N;

- The International Maritime Dangerous Goods (IMDG) Code.

For lithium-ion batteries by sea, provided that packaging is strong and prevent the products from short-circuit. UN number of lithium battery: UN3480 or UN3481;

UN Proper shipping name/Description (technical name): Lithium ion batteries or Lithium ion batteries contained in equipment or Lithium ion batteries packed with equipment;

UN Classification (Transport hazard class): Non dangerous; Marine pollutant (Y/N): Y;

Special Provision: International maritime dangerous goods code (IMDG) 188, 230, 310, 348, 957;

- The US Hazardous Materials Regulation (HMR) pursuant to a final rule issued by RSPA
- The Office of Hazardous Materials Safety within the US Department of Transportations' (DOT) Research and Special Programs Administration (RSPA)

Section 15-Regulatory Information

OSHA hazard communication standard (29 CFR 1910.1200)

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Hazardous	V	_Non-hazardous		
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 of 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.

The data/information contained herein has been reviewed and approved for general release on the basis that this document contains no export controlled information.