

MSDS Report

Applicant's name	SHENZHEN LIDEA BATTERY CO., LTD.				
Applicant's Address	3/F, NO.5 Bldg, Guangming Nev	3/F, NO.5 Bldg, Houhai Xufa Tech Park, Loucun, GongMing Town Guangming New District, Shenzhen, China.			
Name of Sample	LI-ION RECHAI	LI-ION RECHARGEABLE BATTERY			
Model	LIR2032				
Nominal Voltage	3.6V				
Rated Capacity	40mAh, 0.144W	'h			
Weight	2.8g				
Size (D×T)	(20.0×3.2)mm				
	Shenzhen TCT	Testing Techr	ology Co., Ltd.		
Prepared By	1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China.			Fuyong, Baoan	
Report No.	TCT191212M11	0			

Written by: Summer Yang Approved by:_

Date:

Inspected by: Amy Zeng

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Section 1- Chemic	al Product & Cor	mpany Identification	i	
Name of Sample	LI-ION RECHARGEA	ABLE BATTERY		
Manufacturer's name	SHENZHEN LIDEA E	BATTERY CO., LTD.		
Manufacturer's Address	3/F, NO.5 Bldg, Houh New District, Shenzhe	ai Xufa Tech Park, Loucun en, China.	, GongMing Town Guangming	7
Contact Person	Mr. Yi			
Tel	+86-755-27863350			
Fax	+86-0755-25179976			- A
Emergency Tel	+86-755-27863350			
E-mail	515173348@qq.com			

Section 2- Hazard	Is Identification		
Classification of Danger	See section 14.		
Primary Route(s) of Exposure	Eye, skin contact, ingestion.		
Health Hazard	The batteries are not hazardous w manufacturer under normal conditi fire, heat, leakage of internal comp including but not limited to the follocircuited, put into fire, whacked wit crushed, and broken.	ions. In case of abuse, ther conents, which could cause owing cases: charged for lo	re's Hazard of rupture, casualty loss. Abuses ong time, short

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Section 3- Composition/Information on Ingredients			
Chemical Name	Concentration or concentration ranges (%)	CAS Number	
Lithium Cobalt Oxide	15-40	12190-79-3	
Graphite	10-30	7782-42-5	
Phosphate(1-), hexafluoro-, lithium	10-30	21324-40-3	
Copper	7-13	7440-50-8	
Aluminum foil	5-10	7429-90-5	
Nickel	1-5	7440-02-0	

Labeling according to EC directives.

No symbol and Hazard phrase are required.

Note: CAS number is Chemical Abstract Service Registry Number.

N/A=Not apply.

Section 4- First	Aid Measures
Eye	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
Skin	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			
Characteristics of Hazard	Dusts at sufficient concentr generates toxic fumes.	rations can form explosive mix	tures with air. Combustion
Hazardous Combustion Products	Carbon dioxide.		
Fire-extinguishing Methods and Extinguishing Media	For small fires, use water s	pray, dry chemical, carbon dio	xide or chemical foam.

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Attention in Fire-extinguishing

Wear self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6- Accidental Release Meas	sür	es
Personal Precautions, protective equipment, and emergency procedures		In case of rupture. Attention! Corrosive material. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Refer to protective measures listed in Sections 7 and 8.
Environmental Precautions		Prevent product 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	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.
Storage	Store in a cool, dry, well-ventilated area away from incompatible substances. Store locked up. Keep out of the reach of children.
Other Precautions	In case of rupture. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Use personal protection equipment.

Section 8 - Exposure Controls/Persona	al Protection
Engineering Controls	Use adequate ventilation to keep airborne concentrations low. If used under conditions that generate particulates, the ACGIH TLV-TWA of 3mg/m³ respirable fraction (10mg/m³ total) should be observed.

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Personal Protective Equipment

Eye and Face Protection: None required for consumer use. If there is a Hazard of contact: Tight sealing safety goggles. Face protection shield.

Skin and Body Protection: None required for consumer use. If there is a Hazard of contact: Wear

protective gloves and protective clothing.

Respiratory Protection: No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Section 9- Phy	sical and Chemic	al Properties			
	Appearance: Cylindr	ical			
Physical State	Color: Silver	44			
	Odour: If leaking, sm	ells of medical ether.		73	
Change in condit	ion		1000		
"pН	Not applicable as sup	oplied.			4
Flash Point	Not applicable unless	s individual components	exposed.		
Flammability	Not applicable unless	s individual components	exposed.		
Relative density:	Not applicable unless	s individual components	exposed.		
Solubility (water)	Not applicable unless	s individual components	exposed.		
Solubility (other)	Not applicable unless	individual components	exposed.		

Section 10 – Stability and Reactivity	
Chemical Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	None under normal processing.
Conditions to Avoid	Exposure to air or moisture over prolonged periods.
Incompatible materials	Acids, Oxidizing agents, Bases.
Hazardous Decomposition Products	Carbon oxides.

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Section 11 – Toxicological Informat	ion
Irritation	In the event of exposure to internal contents, vapour fumes may be very irritating to the eyes and skin.
Sensitization	Not Available
Reproductive Toxicity	Not Available.
Toxicologically Synergistic Materials	Not Available.

Section 12-Ecological Information						
General note:	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 environment/possible environmental impact/ ecotoxicity	Not Available.					

Waste Treatment Recycle or dispose of in accordance with government, state & local regulations.	
Attention for Waste Treatment Attention for Waste Treatment Deserted batteries shouldn't be treated as of trash. Shouldn't be thrown into fire or placed temperature. Shouldn't be dissected, pierce crushed or treated similarly. Best disposal recycling.	l in high d,

Section 14 – Transport Information							
UN number		3480					7-7
Proper shipping	Lithium ion batteries (limited to a maximum of 30% SoC)						
Label(s) / Placard Required		Miscella Lithium I			41 to 10 to		
Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises							
ICAO / IATA:	(§)	Organiza (IATA), [ation (ICAO), TI DGR Packing In	n accordance work or International estructions (PI) 9 for transportations	l Air Transport 965 Section II a	Association	

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IMDG CODE:	The batteries are not restricted to IMDG Code 2018 Edition (Amdt 39-18) according to special provision 188.
DOT:	Other requirements for the US Department of Transportation (DOT) Subchapter C, Hazardous Materials Regulations if shipped in compliance with 49 CFR 173.185.
ADR/ ADN:	The batteries are not subject to the provisions of United Nations Economic Commission for Europe (UNECE) ADR/ADN if they meet the requirements of special provision 188 of Chapter 3.3. Applicable as from 1 January 2019.

In addition, to be permitted in transport each lithium cell and battery types must have passed the applicable tests set out in Subsection 38.3 of the UN Manual of Tests and Criteria.

Section 15 - Regulatory Information

Dangerous Goods Regulations

Recommendations on the Transport of Dangerous Goods-Model Regulations (20th revised edition)

Recommendations on the Transport of Dangerous Goods-Manual of Tests and Criteria

International Air Transport Association (IATA)

International Maritime Dangerous Goods (IMDG Code 2018 Edition Amdt 39-18)

Technical Instructions for the Safe Transport of Dangerous Goods

Classification and code of dangerous goods (GB 6944-2012)

2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Toxic Substance Control Act (TSCA)

Code of Federal Regulations

In accordance with all Federal, State and local laws



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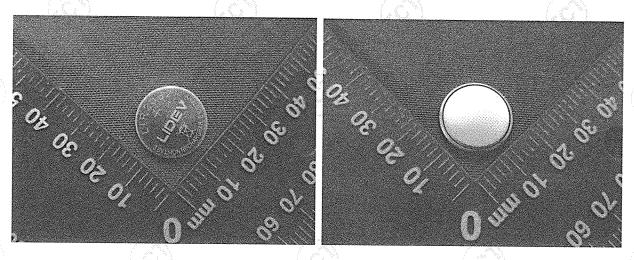
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Section 16 – Additional Information

MSDS creation date: 2020 Version: 1.0

Sample photo:



To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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



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