MATERIAL SAFETY DATA SHEET

Rechargeable Li-ion Battery

Model: ICD069GA(L1865-2.5)

Prepared by	Approved by
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Material Safety Data Sheet

Section 1-Chemical Product and Company Identification

Product Identification

Rechargeable Li-ion Battery

Rated Capacity : 2250mAh / 56.7Wh

Norminal Voltage : 25.2V

Testing Period : Jan.1, 2022 To Jan.1, 2022

Manufacturer

ICON ENERGY SYSTEM (SHEN ZHEN) CO., LTD

Address: Block A ,4/F, jinmeiwei Industrial Park, Guanlan Hi-tech Industrial Park, Shangkeng

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contact person: Read

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Section 2-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.
classification	
Appearance,	Solid object with no odor, no color.
Color, and	
Odor	
Primary	These chemicals are contained in a sealed stainless steel enclosure. Risk of exposure occurs
Route(s) of	only if the cell is mechanically, thermally or electrically abused to the point of
Exposure	compromising the enclosure. If this occurs, exposure to the electrolyte solution contained
	within can occur by Inhalation, Ingestion, Eye contact and Skin contact.

icon Energy System (SHEN ZHEN) CO., LTD

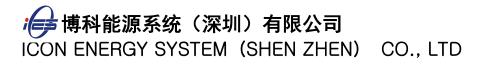
Potential	ACUTE (short term): see Section 8 for exposure controls In the event that this battery has	
Health	been ruptured, the electrolyte solution contained within the battery would be corrosive and	
Effects:	can cause burns.	
	Inhalation: Inhalation of materials from a sealed battery is not an expected 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	Not applicable	
Conditions		
Aggravated		
by Exposure		
Reported as	Not applicable	
carcinogen		

Section 3-Composition/Information on Ingredients

Chemical Composition	Molecule Formula	CAS No.	Weight (%)
Lithium nickel-cobalt₁ manganese	LiNiXCoYMnZO2	_	23-35
oxide	Envized i wiizoz		25-55
Aluminum	Al	7429-90-5	3-8
PVDF	(CH2-CF2)n	24937-79-9	0.2-0.6
Graphite	C	7782-42-5	13-20
Copper	Cu	7440-50-8	6-11
SBR	(C8H8 • C4H6)X	9003-55-8	0.4-1
PE	(C2H4)n	9002-88-4	0-1
PP	(C3H6)n	9003-07-0	0-1
Lithium Hexafluorophosphate	LiPF6	21324-40-3	1-3
EC	C3H4O3	96-49-1	2-3
Steel	Fe	7439-89-6	15.20
Nickel	Ni	7440-02-0	15-20

Section 4-First-aid Measures

Inhalation	If contents of an opened battery are inhaled, remove source of contamination or move vic	
	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	

Health: 0 Flammability: 0 Instability: 0

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NFPA

Section 6-Accidental Release Measures

Personal Precautions, protective	Restrict access to area until completion of	
equipment, and	clean-up. Do not touch t	
emergency procedures	he 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	Stop the leak if safe to do so. Contain the spilled liquid with dry	
Containment	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 $^{\circ}$ C $^{\circ}$ +40 $^{\circ}$ C, 45 to 85%RH And recommended at 0 $^{\circ}$ C $^{\circ}$ +35 $^{\circ}$ 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 $^{\circ}$ 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

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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	Respiratory Protection: Not necessary under	
Equipment	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: White	
	Odour: Monotony	
Change in condit	ion:	
pH, with indication of the concentration		Not applicable
Melting point/freezing point		Not available.
Boiling Point, initial boiling point and Boiling range:		Not available.
Flash Point		Not available.
Upper/lower flammability or explosive limits		Not available.
Vapor Pressure:		Not applicable
Vapor Density: (Air = 1)		Not applicable
Density/relative of	desity	Not available.
Solubility in Water:		Insoluble

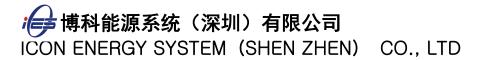
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n-octanol/water partition coefficient	Not available.
Auto-ignition temperature	130℃
Decomposition temperature	Not available.
Odout threshold	Not available.
Evaporation rate	Not available.
Flammability (soil, gas)	Not available.
Viscosity	Not applicable

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

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:	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.

Section 14-Transport Information

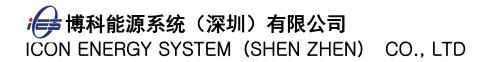
This report applies to by sea, by air and by land;

The Li-ion Battery tested according to the requirements of the 6th 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 Li-polymer Rechargeable Battery (ICD069GA(L1865-2.5)) according to Section II/IA/IB of PACKING

Page 8 of 10



INSTRUCTION 965/966/967 of the 2022 IATA Dangerous Goods regulations 63rd 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): N;

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 1910.1	200)			
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

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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.