



## SECTION 4: First Aid Measures

### In the case of a leakage (e.g. electrolyte) from the can, take the following measures:

Inhalation	Fumes can cause respiratory irritation. Remove to fresh air and seek medical treatment immediately.
Skin contact	Immediately rinse with plenty of clean water and seek medical treatment.
Eyes contact	Immediately rinse with plenty of clean water and seek medical treatment.
Ingestion	: Rinse mouth with clean water and seek medical treatment immediately.

### In the case of ingestion of a battery :

Swallowing coin cells can cause chemical burns, perforation of soft tissue and, in severe cases, death. Seek medical assistance promptly.

## SECTION 5: Fire Fighting Measures

**Fire extinguishing agent :** Dry sand and expanded vermiculite are effective.

- Do not use water to extinguish the fire because lithium reacts with water.
- Vapor generated from burning batteries may irritate the eyes, nose, and throat. Wear respiratory protection equipment and extinguish the fire on the windward side.

## SECTION 6: Accidental Release Measures

The battery is sealed to prevent leakage of gas and liquid. Should liquid leak from the battery, wipe it off with a dry rag and move the battery away from the fire.

## SECTION 7: Precautions During Handling and Storage

<b>Handling</b>	Keep out of reach of children.
	Do not charge using a higher current or voltage than specified.
	Do not heat or throw into a fire.
	Do not deform or disassemble.
	Do not short-circuit. Do not connect wires to the terminals, stack batteries, or carry or store them with metal products such as necklaces and hairpins.
	Do not connect the terminals in reverse.
	Do not weld or solder directly.
	Do not swallow the battery. Seek medical advice immediately if a battery has been swallowed.
	Do not allow children to replace batteries without adult supervision.
	<b>Storage</b>
	Keep dry.
	Do not store in places of the high temperature, high humidity, or under direct sunlight.

## SECTION 8: Exposure Controls / Personal Protection

The battery is sealed to prevent leakage. There is no need of personal protective equipment on regular handling and storage. Should a large amount of liquid (electrolyte) leak from the batteries, wear protective equipment.

Respiratory Protection:	Protective mask with a filter preferably
Hands Protection:	Safety gloves
Eye Protection:	Safety goggles and/or glasses for chemicals

**SECTION 9: Physical and Chemical Properties**

<b>Shape</b>	Coin-type
<b>Chemical System</b>	Lithium-Manganese composite oxide/ Lithium-Silicon composite oxide
<b>Rechargeable</b>	(YES) / NO

**SECTION 10: Stability and Reactivity**

Stability:	Stable on regular handling and storage
Condition to Avoid:	See section 7

**SECTION 11: Toxicological Information**

There is no toxicity because the chemical compositions are sealed inside the battery.

**SECTION 12: Ecological Information**

It has been confirmed that there is almost no outflow of metal when exhausted batteries are landfilled in the ground. There is no other environmental impact information.

**SECTION 13: Disposal Considerations**

When disposing of this battery, insulate the terminals with tape or other means before disposal to prevent a short circuit due to contact between the battery and metal.

Dispose in accordance with applicable federal, state, and local regulations.

**SECTION 14: Transport Information**

<b>United Nations Number</b>	UN3090 (Batteries contained in equipment; or batteries packed with equipment; UN3091)
<b>Shipping Name</b>	Lithium metal batteries
<b>UN Hazard Classification</b>	Class 9

This product can be transported as non-dangerous goods because it meets the transportation conditions listed in the Special provision 188.

<Lithium content>	Less than 1g. ※The Lithium content of this battery is 0.0032 g.
<Safety Certificate>	Each cell or battery must be of the type proven to have met the requirements of every test in the UN Manual of Tests and Criteria, Part III, sub-section 38.3. ※This battery has passed the UN 38.3 test and is manufactured in a factory that has acquired ISO 9001 based on the quality program.
<Packaging for preventing short circuit >	Except when the battery is contained in equipment, it must be stored to prevent short circuit and wrapped in a sturdy container or packaging.
<Label & Marking display>	Appropriate labeling and marking are required for each package.
<Packing Drop test>	Except when the battery is contained in equipment, every package must be capable of withstanding a 1.2 m drop test.

**International Transportation Regulations**

Method	Organization : Regulation	United Nations Number	Packaging instruction and special provision applicable to this product	
Air	IATA:DGR	Lithium Metal Batteries(UN3090)	PI968	Section IB (Dangerous Goods)
	ICAO:ICAO TI	Packed in equipment(UN3091)	PI969	Section I (Dangerous Goods)
		Contained with equipment(UN3091)	PI970	Section I (Dangerous Goods)
		Section II (Not Dangerous Goods)		
Marine	IMO:IMDG code		SP 188 *2, 3	

- \*1 Batteries contained in equipment can be transported as non-dangerous goods if certain conditions are met.
- \*2 When this product is transported on the sea while satisfying the special provision SP 188, it can be transported as non-dangerous goods. However, each package should not exceed 30 kg. (Not subjected to batteries contained in equipment or packed with equipment.)
- \*3 Please confirm the details of each packing criteria, be sure to carry out the required packaging labeling and shipper's declaration for dangerous goods, etc. Also, as every country and transportation company have their own regulations, please check in advance.

**SECTION 15: Regulatory Information**

- IATA Dangerous Goods Regulations 64rd Edition
- UN Recommendations on the Transport of Dangerrous Good : Model Regulations
- UN Recommendations on the Transport of Dangerrous Good : Manual of Test and Criteria
- EU Battery Directive : Directive 2006/66/EC and Directive 2013/56/EU

**SECTION 16: Other Information**

If you need further information, please contact your local sales representative.

End of Documents.