

# Safety Data Sheet

<b>Product Name:</b>	663014
<b>Model:</b>	10440 (1ICR11/45)
<b>Revision Date:</b>	2020-7-22
<b>Report No.:</b>	File NO. / Rev.: MSDS- 019/A
<b>Compiler:</b>	
<b>Reviewer:</b>	
<b>Approver:</b>	

# 1. IDENTIFICATION

## Product Identifier

Name of Product: 663014

## Other means of identification

Product Models: 10440 (1ICR11/45)

Nominal Voltage: 3.7V

Nominal capacity: 320mAh

Nominal power: 1.18WH

Weight: 12g

Size: (Length47.7\*Width10.9\*Thickness10.9)mm

## Recommended use of the chemical and restriction on use

Recommended Use: Rechargeable Li-ion Battery

Restriction On Use: No information available

## Information Of Supplier:

Company Name: FUJI ELECTRONICS (SHENZHEN) CO.,LTD.

Address: No. 10 , second Industrial Zone , Tangxiayong , Songgang Street , Baoan District , Shenzhen  
City , Guangdong Province

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# 2. Hazard(s) Identification

## Classification:

This is a battery. In case of rupture:.

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Carcinogenicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 1

## GHS Label elements, including precautionary statements:

Signal Word :Danger

Hazard statements :

This is a battery. In case of rupture:.

Causes skin irritation

Causes serious eye irritation

Suspected of causing cancer

Causes damage to organs through prolonged or repeated exposure

**Precautionary Statements - Prevention:**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Wear protective gloves/protective clothing/eye protection/face protection

Wash face, hands and any exposed skin thoroughly after handling



Do not breathe dust/fume/gas/mist/vapors/spray  
Do not eat, drink or smoke when using this product

**Precautionary Statements - Response:**

IF exposed or concerned: Get medical advice/attention  
Specific treatment (see supplemental first aid instructions on this label)

**Eyes:**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
If eye irritation persists: Get medical advice/attention

**Skin:**

IF ON SKIN: Wash with plenty of water and soap  
If skin irritation occurs: Get medical advice/attention  
Take off contaminated clothing and wash it before reuse

**Precautionary Statements - Storage:**

Store locked up

**Precautionary Statements - Disposal:**

Dispose of contents/container to an approved waste disposal plant

**Other information**

Very toxic to aquatic life with long lasting effects

**Unknown acute toxicity :**

- 30.9 % of the mixture consists of ingredient(s) of unknown toxicity
- 30.9 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 30.9 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 30.9 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- 30.9 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 30.9 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

### 3. Composition/ Information on Ingredients

Chemical Name	CAS No.	Weigh%
Cobaltate, lithium	12190-79-3	39.6%
Aluminium	7429-90-5	5.56%
Polyvinylidene fluoride resin	24937-79-9	1.15%
Graphite	7782-42-5	23.2%
Copper	7440-50-8	9.8%
Rubber,styrene-butadiene,fume	61789-96-6	1.78%
Polyethylene	9002-88-4	0.06%
polypropylene	9003-07-0	0.78%
Phosphate(1-),hexafluoro-,lithium	21324-40-3	15.35%
1,3-Dioxolan-2-one	96-49-1	2.72%

### 4. First Aid Measures

**General Advice**

First aid is Applicable only in the case of cell rupture.

**Skin Contact:**

Washing immediately with plenty of water and soap for at least 15 minutes .In the case of skin irritation or allergic reaction see a physician.

**Eye contact:**

If symptoms persist, call a physician. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Do not rub affected area.

#### **Inhalation of Vented Gas:**

Remove to fresh air. If symptoms persist, call a physician. Get medical attention immediately if symptoms occur.

#### **Ingestion:**

Do not induce vomiting. Rinse mouth immediately and drink plenty of water. Call a physician or poison control center immediately.

#### **Most important symptoms and effects, both acute and delayed**

Contact with internal components may cause allergic skin sensitizations (rash) and irritate eyes, nose, throat, respiratory system. Cobalt and cobalt compounds are considered to be possible human carcinogen(s).

#### **Indication of any immediate medical attention and special treatment needed**

No information available

## **5. Fire –Fighting Measures**

#### **Suitable Extinguishing Media**

Use foam, dry powder or dry sand, CO<sub>2</sub> as appropriate.

#### **Unsuitable Extinguishing Media:**

CAUTION: Use of water spray when fighting fire may be inefficient.

#### **Specific Hazards Arising from the chemical**

Under fire conditions, batteries may burst and release hazardous decomposition products when exposed to fire situation. This could result in the release of flammable or corrosion materials.

#### **Hazardous Combustion product:**

CO, CO<sub>2</sub>, Metals oxides, Irritating fumes.

#### **Protective equipment and precautions for firefighters**

Firefighters must wear fire resistant protective equipment and appropriate breathing apparatus. The staff must equipment filter mask(full mask) or isolated breathing apparatus. The staff must wear the clothes which can defense the fire and the toxic gases. Put out the fire in the upwind direction. Remove the container to open space as soon as possible. Spray water on the containers in the fireplace to keep them cool until finish extinguishment.

## **6. Accidental Release Measures**

#### **Personal precautions, protective equipment and emergency procedures**

If the battery material 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, dispose the case after the batteries cool and vapors dissipate. Provide maximum ventilation. Avoid contact with skin, eyes or inhalation of vapors.

#### **Methods for containment**

Prevent further leakage or spillage if safe to do so.

#### **Methods for cleaning up**

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.

## **7. Handling and Storage**

### **Precaution for safe handling**

Always follow the warning information on the batteries and in the manuals of devices. Only use the recommended battery types. Keep batteries away from children. For devices to be used by children, the battery casing should be protected against unauthorized access. Unpacked batteries shall not lie about in bulk. In case of battery change always replace all batteries by new ones of identical type and brand. Do not swallow batteries. Do not throw batteries into water. Do not throw batteries into fire. Avoid deep discharge. Do not short-circuit batteries use recommended charging time and current.

### **Conditions for safe storage, including any incompatibilities**

#### **Storage:**

Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children. If battery is subject to storage for such a long term as more than 3months, it is recommended to recharge the battery periodically.

**Incompatible products:** Strong acids. Strong oxidizing agent.

## **8. Exposure Controls/Personal Protection**

### **Control parameters**

Not established

### **Appropriate engineering controls**

Under normal conditions( during charge and discharge) release of ingredients does not occur.

### **Individual protection measures**

#### **Respiratory protection:**

No personal respiratory protective equipment normally required. In case of inadequate ventilation wear respiratory protection

#### **Eye /face protection:**

If splashes are likely to occur, wear safety glasses with side-shields.

#### **Skin protection:**

Wear protective clothing to prevent contact

#### **Hand protection:**

Wear protective gloves

## **9. Physical and Chemical Properties**

**Physical State:** Cylindrical

**Color:** Colour

**Odor:** Odorless

**Odor Threshold:** No information available

**pH:** No data available

**Melting/freezing point:** No data available

**Boiling point/boiling range:** No data available

**Flash Point:** No data available

**Evaporation Rate:** No data available

**Flammability(Solid, gas):**No data available

**Flammability Limit in Air:** No data available

**Upper flammability limit:** No data available

**Lower flammability limit:** No data available

**Vapor pressure:** No data available

**Vapor density:** No data available

**Specific Gravity:** No data available

**Solubility:** Insoluble in water

**Partition coefficient: n-octanol/water:** No data available

**Auto-ignition temperature:** No data available

**Decomposition temperature:** No data available

**Kinematic viscosity:** No data available

**Dynamic viscosity:** No data available

## 10. Stability and Reactivity

### **Reactivity:**

No data available

### **Chemical stability:**

Stable under recommended storage conditions.

### **Possibility of Hazardous Reactions:**

When heated above 150°C the risk of rupture occurs. Due to special safety construction, rupture implies controlled release of pressure without ignition

### **Conditions to avoid:**

Do not subject battery to mechanical shock. Keep away from open flames, high temperature.

### **Incompatible materials:**

Strong acids, strong oxidizing agents.

### **Hazardous decomposition products:**

Under fire conditions, the electrode materials can form carcinogenic cobalt oxides

## 11. Toxicological Information

### **Information on likely routes of exposure**

#### **Inhalation:**

Inhalation of a large number of vapors or fumes released due to heat may cause respiratory.

#### **Eye Contact:**

Contact with battery electrolyte may cause burns. Eye damage is possible.

#### **Skin Contact:**

Contact with battery electrolyte may cause burns and skin irritation.

#### **Ingestion:**

Ingestion of battery contents may cause mouth, throat and intestinal burns and damage.

Under normal conditions (during charge and discharge) release of ingredients does not occur. If accident release occurs see information in section 2,3, and 4. Swallowing of battery can be harmful.

Call the local Poison Control Centre for advice and follow-up.

### **Information on toxicological characteristics**

#### **Acute toxicity:**

No data available.

**Skin corrosion/irritation:**

The liquid in the battery irritates.

**Serious eye damage/ irritation:**

The liquid in the battery irritates.

**Respiratory sensitization:**

The liquid in the battery may cause sensitization to some person.

**Skin sensitization:**

The liquid in the battery may cause sensitization to some person.

**Carcinogenicity:**

Cobalt and Cobalt compounds are considered to be possible human carcinogen(s)

**Germ Cell Mutagenicity:**

No data available.

**Reproductive Toxicity:**

No data available.

**STOT-single Exposure:**

No data available.

**STOT-repeated Exposure:**

No data available.

**Aspiration Hazard:**

No data available.

## 12. Ecological Information

**Ecotoxicity:**

Water hazard class1(Self-assessment): slightly hazardous for water

**Persistence and Degradability:**

No information available

**Bioaccumulation:**

No information available

**Other adverse effects:**

No information available

## 13. Disposal Considerations

**Waste treatment methods****Disposal methods:**

Should not be released into the environment.

**Contaminated Packaging:**

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

## 14. Transportation Information

According to Packing Instruction 965-970 of IATA DGR 61<sup>st</sup> Edition for transportation, the special provision 188 of IMDG ( inc Amdt.39-18). The batteries should be securely packed and protected against short-circuits. Examine whether the package of the containers are integrate and tighten closed before transport. Take in cargo of them without falling, dropping, and breakage. Prevent collapse of cargo piles. Don't put the goods together with oxidizer and chief food chemicals. The transport vehicle should prevent exposure, rain and high temperature. For stopovers, the vehicle should be away from

fire and heat sources. When transported by sea, the assemble place should keep away from bedroom and kitchen, and isolated from the engine room, Power and fire sources. Under the condition of road transportation, the driver should drive in accordance with regulated route, don't stop over in the residential area and congested area. Forbid to use wooden, cement for bulk transport:

Lithium batteries shipped as "Lithium batteries", Lithium batteries packed with equipment", or "lithium batteries contained in equipment" may not be classified as "No Dangerous Goods" when shipped in accordance with Packing Instruction 965-970 of IATA-DGR" or "Special provision 188 of IMO-IMDG Code".

DOT: NOT REGULATED

Proper Shipping Name: NON REGULATED

Hazard Class: N/A

TDG: Not regulated

MEX: Not regulated

ICAO: Not regulated

IATA: Not regulated

Proper Shipping Name: NON REGULATED

Hazard Class: N/A

IMDG/IMO: Not regulated

Hazard Class: N/A

Ems No.: F-A,S-1

RID: Not regulated

ADR: Not regulated

AND: Not regulated

## 15. Regulatory information

OSHA hazard communication standard (29 CFR 1910.1200)

\_\_\_\_\_Hazardous                        √  Non-hazardous

## 16. Other Information

### Preparation and revision

**Prepared By:** FUJI ELECTRONICS (SHENZHEN) CO.,LTD.

**Report No.:** File NO. / Rev.: MSDS- 019/A

**Issuing Date:** 2020-7-22

**Revision Note :**No information available

### Disclaimer

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