

# Safety Data Sheet

Date of Issue: October 20, 2022

File No.: GFCB20221018WERCS01

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product Identifier

**Name of Product:** Rechargeable Li-ion cell

### 1.2 Other means of identification

**Product Models:** 1254A  
**Nominal Voltage:** 3.85V  
**Nominal capacity:** 70mAh  
**Nominal Power:** 0.270Wh  
**Weight:** 1.40g

### 1.3 Recommended use of the chemical and restriction on use

**Recommended Use:** Rechargeable Li-ion Battery  
**Restriction on Use:** No information available

### 1.4 Information Of Supplier:

**Company Name:** XINYU GANFENG ELECTRONICS CO., LTD.  
**Address:** No.2668 Nanyuan Road, Hi-Tech Industrial Development Zone, Xinyu, Jiangxi Province, China 338000  
**Contact person:** Liu Kaiyue  
**Tel:** 17779019683  
**E-mail:** liukaiyue@ganfengelec.com

### 1.5 Emergency Telephone

+86 17779019683

## 2. Hazard(s) Identification

### 2.1 Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

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

### 2.2 Label elements

**2.2.1 Signal Word**      **Danger**

#### **2.2.2 Hazard Statements**

Causes skin irritation  
Causes serious eye damage  
Suspected of causing cancer  
Causes damage to organs through prolonged or repeated exposure

#### **2.2.3 Symbol**



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This product is an article which contains a chemical substance. Safety information is given for exposure to the article as solid. Intended use of the product should not result in exposure to the chemical substance, This is a battery. In case of rupture: the above hazards exist.

## **2.3 Precautionary Statements**

### **2.3.1 Precautionary Statements – Prevention**

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Use personal protective equipment as required.  
Wash face, hands and any exposed skin thoroughly after handling.  
Contaminated work clothing should not be allowed out of the workplace.  
Keep away from flames and hot surface –no smoking.  
Do not breath dust/fume/gas/mist/vapors/spray.  
Do not eat, drink or smoke when using this product.

### **2.3.2 Precautionary Statements – Response**

If exposed or connected: Get medical advice/attention.  
Specific treatment(see supplemental first aid/instruction on this label).

#### **Skin**

If ON SKIN: wash with plenty of soap and water.  
Take off contaminated clothing and water before reuse.  
If skin irritation or rash occurs: get medical advice/attention if feel unwell.

#### **Eye**

If IN EYES: Rinse cautiously with water for several minutes, remove contact lenses, if present and easy to do, Continue rinsing. Call a POISON CENTER or doctor/physician.

#### **Inhalation**

If inhalation: if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or doctor/physician.

#### **Ingestion**

If swallowed: rinse mouth, do not induce vomiting ,Call a poison center or doctor/physician if feel unwell.

### **2.3.3 Precautionary Statements – Storage**

Store locked up

### **2.3.4 Precautionary Statements – Disposal**

Dispose of contents/container to an approved waste disposal plant.

## **2.4 Hazards not otherwise classified (HNOC)**

Not applicable

## **2.5 Unknown Toxicity**

40% of the mixture consists of ingredient(s) of unknown toxicity.

## **2.6 Other information**

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## **2.7 Interactions with other chemicals**

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No information available.

### **3. Composition/ Information on Ingredients**

Chemical Name	CAS No.	Weigh%
Aluminum(Al)	7429-90-5	6.02
Copper foil	7440-50-8	9.15
Lithium Cobalt Dioxide	12190-79-3	40.87
Styrene Butadiene Rubber	9003-55-8	0.38
Carbon	7782-42-5	18.83
Carboxymethyl cellulose	9004-32-4	0.32
Polypropylene	9003-07-0	5.00
Ethyl Methyl Carbonate	623-53-0	5.14
Lithium Hexafluorophosphate	21324-40-3	4.27
Ethylene Carbonate	96-49-1	4.82
Dimethyl Carbonate	616-38-6	5.2

### **4. First Aid Measures**

#### **4.1 General Advice**

First aid is upon rupture of sealed battery.

#### **4.1.1 Eye contact**

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. Seek immediate medical attention/advice.

#### **4.1.2 Skin Contact**

Wash off immediately with plenty of water and soap for at least 15 minutes. Remove and isolate contaminated clothing and shoes. Get medical attention if irritation develops and persists.

#### **4.1.3 Inhalation of Vented Gas**

Remove to fresh air. Get medical attention immediately if symptoms occur. If not breathing, give artificial respiration. If breathing is difficult, (trained personnel should) give oxygen.

#### **4.1.4 Ingestion**

Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

#### **4.1.5 Self-protection of the first aider**

Ensure that medical personnel are aware of the material(s) involved. Take precaution to

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protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personnel protective equipment as required. Wear personnel protective clothing (see section 8).

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

Burning sensation, Itching. Rashes. Hives, Coughing.

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

### **Notes to physician**

Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. May cause sensitization of susceptible persons. Treat symptomatically.

## **5. Fire –Fighting Measures**

### **5.1 Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical, CO<sub>2</sub>, water spray or regular foam. Move containers from fire area if you can do it without risk.

### **5.2 Unsuitable Extinguishing Media**

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

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

Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation and skin contact. Product is or contains a sensitizer.

### **Hazardous Combustion products**

Carbon oxides

### **5.4 Explosion Data**

**Sensitivity to Mechanical Impact :None.**

**Sensitivity to Static Discharge: None.**

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

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/IOSH (approved or equivalent) and full protective gear. Move containers from fire area if you can do it without risk.

## **6. Accidental Release Measures**

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

Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

### **6.2 Environmental Precautions**

Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.

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## **6.3 Methods for containment**

Prevent further leakage or spillage if safe to do so. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

## **6.4 Methods for cleaning up**

Pick up and transfer to properly labeled containers.

## **7. Handling and Storage**

### **7.1 Precaution for safe handling**

In case of rupture, use personal protection equipment. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Do not breathe dust/fume/gas/mist/vapors/spray.

### **7.2 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.

#### **Incompatible products**

Strong acids. Strong oxidizing agent. Strong bases.

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

### **8.1 Exposure Guidelines**

<b>Chemical Name</b>	<b>ACGIH TLV</b>	<b>OSHA PEL</b>	<b>NIOSH IDLH</b>
Carbon 7782-42-5	TWA:2mg/m <sup>3</sup> respirable particulate matter all forms except graphite fibers	TWA: 15 mg/m <sup>3</sup> total dust synthetic TWA: 5 mg/m <sup>3</sup> respirable fraction synthetic (vacated) TWA: 2.5 mg/m <sup>3</sup> respirable dust natural (vacated) TWA: 10 mg/m <sup>3</sup> total dust synthetic (vacated) TWA: 5 mg/m <sup>3</sup> respirable fraction synthetic TWA: 15 mppcf natural	IDLH: 1250 mg/m <sup>3</sup> TWA: 2.5 mg/m <sup>3</sup> respirable dust
Lithium Cobalt Oxide 12190-79-3	TWA:0.02mg/m <sup>3</sup>	-	-
Lithium Hexafluorophosphate 21324-40-3	TWA: 2.5 mg/m <sup>3</sup> F	TWA: 2.5 mg/m <sup>3</sup> F TWA: 2.5 mg/m <sup>3</sup> dust (vacated) TWA: 2.5 mg/m <sup>3</sup>	-

ACGIH TLV: American Conference of Governmental Industrial Hygienists-Threshold Limit Value  
OSHA PEL : Occupational Safety and Health Administration-Permissible Exposure Limits  
NIOSH IDLH Immediately Dangerous to Life or Health.

#### **Other Exposure Guidelines:**

Vacated limits revoked by the court of Appeals decision in AFL-CLO v. OSHA, 965F, 2d

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962(11th Cir., 1992) See section 15 for national exposure control parameters.

## **8.2 Appropriate engineering controls**

### **Engineering Measures:**

Showers, Eyewash stations, Ventilation systems

## **8.3 Individual protection measures, such as personal protective equipment**

**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.

**Eye /face protection:** if splashes are likely to occur: Wear safety glasses with side shields(or goggles). None required for consumer use.

**Skin protection:** Wear protective gloves and protective clothing. Long sleeved clothing. Imperious gloves.

**Hygiene Measure:** Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Wash hands before breaks and immediately after handling the product. For environmental protection, remove and wash all contaminated protective equipment before re-use. No information available.

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

**Physical State:** Solid

**Color:** Silver

**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:**

**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

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**Solubility:** Insoluble in water

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

**Autoignition 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:**

None under normal processing.

**Hazardous Polymerization:**

Hazardous polymerization does not occur.

**Conditions to avoid:**

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

**Incompatible materials:**

Strong acids, Strong oxidizing agents. Strong bases.

**Hazardous decomposition products:**

Carbon oxides

## 11. Toxicological Information

### 11.1 Information on likely routes of exposure

**Product information:**

Product does not present an acute toxicity hazard based on known or supplied information. In case of rupture:

**Inhalation:**

Specific test data for the substance or mixture is not available. Corrosive by inhalation (base on components). Inhalation of corrosion fumes/gases may cause coughing, choking, headache, dizziness and weakness for several hour. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure and increased heart rate. Inhaled corrosion substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal. May cause irritation of respiratory tract.

**Eye Contact:**

Specific test data for the substance or mixture is not available. Cause burns. ( based on components). Corrosion to the eyes and may cause severe damage including blindness. Cause serious eye damage. May cause irreversible damage to eyes.

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## Skin Contact:

Specific test data for the substance or mixture is not available. Corrosion (based on components). Cause burns. Toxic in contact with skin. May be absorbed through the skin in harmful amounts.

## Ingestion:

Specific test data for the substance or mixture is not available. Cause burns. ( based on components). Ingestion cause burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways. Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be harmful if swallowed.

## Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Dimethyl Carbonate	= 29000 mg/kg ( Rat )	> 20 mL/kg ( Rabbit )	-

## 11.2 Information on toxicological effects

### Symptoms:

Erythema (skin redness). May cause redness and tearing of eyes. Itching. Rashes. Hives. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing. Coughing and/or wheezing.

## 11.3 Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Sensitization:** May cause sensitization of susceptible person, May cause sensitization by skin contact. May cause sensitization by inhalation.

**Mutagenic Effects:** No information available.

**Carcinogenicity:** the table below whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Lithium Cobalt oxide 12190-79-3	A3	Group 2B		X

**ACGIH** (American Conference of Governmental Industrial Hygienists)

A3- Animal Carcinogen

**IARC** (International Agency for research on Cancer)

Group 2B- Possibly Carcinogenic to humans

**NTP** (National Toxicology Program) Reasonably Anticipated- reasonably anticipated to be a human Carcinogenic.

**OSHA** (Occupational safety and Health Administration of the US Department of Labor)

X-Present

**Reproductive Toxicity:** No information available.

**STOT- single exposure:** No information available.

**STOT- repeated exposure:** Cause damage to organs through prolonged or repeated

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exposure. Based on classification criteria from the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200), this product has been determined to cause systemic target organ toxicity from chronic or repeated exposure. ( STOT RE )

**Chronic Toxicity:** Prolonged exposure may cause chronic effects. Repeated contact may cause allergic reactions in very susceptible persons. Contain a known or suspected carcinogen. Avoid repeated exposure. May cause adverse effects on the bone marrow and blood-forming system. May cause adverse liver effects.

**Target Organ Effects:** Respiratory system. Eyes. Skin. Gastrointestinal tract(GI). Blood. Central Nervous System(CNS). Kidney. Liver. Lungs. Nasal cavities.

**Aspiration Hazard:** No information available.

## 11.4 Numerical measures of toxicity product information

The following values are calculated based on chapter 3.1 of the GHS document.

ATE mix(oral): 5400 mg/kg

## 12. Ecological Information

### Ecotoxicity :

Chemical name	Toxicity to Aglae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
-	-	-	-	-

**Persistence and Degradability:** No information available

**Bioaccumulation:** No information available

**Other adverse effects:** No information available

## 13. Disposal Considerations

### 13.1 Waste treatment methods

#### **Disposal methods:**

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements. Should not be released into the environment.

#### **Contaminated Packaging:**

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

#### **California Hazardous Waste Codes 141**

This product contains one or more substances that are listed with the State of California as a

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hazardous waste.

Chemical Name	California Hazardous Waste
Lithium Cobalt Oxide 12190-79-3	Toxic

## 14. Transportation Information

The transportation of primary lithium cells and batteries is regulated by the International Civil Aviation Organization, International Air Transport Association, International Maritime Dangerous Goods Code and the US Department of Transportation. The batteries must meet the following criteria for shipment: 1. Air shipments must meet the requirements listed in Special Provision A45 of the International Air Transport Association Dangerous Goods Regulations. 2. Meet the requirements for the US Department of Transportation listed in 49 CFR 173.185. 3. The transport of primary lithium batteries is prohibited aboard passenger aircraft. Refer to the Federal Register December 15, 2004 (Hazardous Materials; Prohibited on the Transportation of Primary Lithium Batteries and Cells Aboard Passenger Aircraft; Final Rule)

Lithium batteries shipped as "Lithium batteries", "Lithium batteries packed with equipment", or "Lithium batteries contained in equipment" may not be classified as "Dangerous Goods" when shipped in accordance with "PI965-967 section II of IATA-DGR" or "special provision 188 of IMO-IMDG Code"

**DOT:** NOT REGULATED

**Proper Shipping Name:** NON REGULATED

**Emergency Response Guide Number:** 147

**Hazard Class:** N/A

**TDG:** Not regulated

**MEX:** Not regulated

**ICAO:** Not regulated

**IATA:** Not regulated

**Proper Shipping Name:** Not regulated

**Hazard Class:** Not regulated

**IMDG/IMO:** Not regulated

**Proper Shipping Name:** NON REGULATED

**Hazard Class:** N/A

**Ems No.:** F-A, S-1

**RID:** Not regulated

**ADR:** Not regulated

**AND:** Not regulated

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## 15. Regulatory information

### 15.1 International Inventories

TSCA Complies  
DSL All components are listed either on the DSL or NDSL.  
TSCA – United State Toxic Substance Control Act Section 8(b) Inventory  
DSL/NDSL – Canadian Domestic Substance List/Non-Domestic Substance List

### 15.2 US Federal Regulations

**SARA 313:** Section 313 of Title III of the superfund Amendments and Reauthorization Act of 1986(SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No.	Weight (%)	SARA313-Threshold values(%)
Lithium Cobalt Oxide	12190-79-3	15-40	0.1

### 15.3 SARA 311/312 Hazard Categories

Acute Health Hazard No  
Chronic Health Hazard No  
Fire Hazard No  
Sudden release of pressure hazard No  
Reactive Hazard No

### 15.4 CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

### 15.5 CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

### 15.6 US State Regulations

#### **California Proposition 65**

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
-	Carcinogen

### U.S State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Lithium Cobalt Oxide 12190-79-3	x		x	x	x
Carbon 7782-42-5	x	x	x		
Lithium Hexafluorophosphate 21324-40-3	x				

### 15.7 International Regulations

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## Mexico

National occupational exposure limits

Chemical Name	Carcinogen Status	Exposure Limits
Graphite		Mexico: TWA= 2 mg/m <sup>3</sup>

## Canada

WHMIS Hazard Class

Non-controlled

## 16. Other Information

### Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used material used in combination with any other materials or in any process, unless specified in the test.

**Prepared By:** Guangzhou MCM Certification and Testing Co., Ltd.

**Issuing Date:** October 20, 2022

**Revision Date:** October 20, 2022

--- End of SDS ---

# Article Information Sheet

# Fiche d'information Article

Product name: Rechargeable Li-ion Cell

Printing date:06-Mar-2023

Nom du produit: Cellule Li-ion Rechargeable

Date d'impression: 06-Mar-2023

## Article Information Sheet (AIS)

This Article Information Sheet (AIS) provides relevant battery information to retailers, consumers, OEMs and other users requesting a GHS - compliant SDS. Articles, such as batteries, are exempt from GHS SDS classification criteria. The GHS criteria is not designed or intended to be used to classify the physical, health and environmental hazards of an article. Branded consumer batteries are defined as electro - technical devices. The design, safety, manufacture, and qualification of Energizer branded consumer batteries follow ANSI and IEC battery standards.

### 1. DOCUMENT INFORMATION

Product name: Rechargeable Li-ion Cell  
Model: 803040  
Issue Date: 06-Mar-2023

### 2. COMPANY INFORMATION

Company name(China) Dongguan Perfect Amperex Technology Limited  
Address: No.122 Sanjiang Industrial District, HengLi Town, Dongguan City, Guangdong Province, P. R. China  
E-mail: zhangyan@patlcell.com  
Telephone: +86-769-82305866

### 3. ARTICLE INFORMATION

Description	Rechargeable Li-ion Cell
Use	LITHIUM ION BATTERY
Brand	----

## Article Feuille d'information (AIS)

Cette fiche d'information Article (AIS) fournit des informations sur la batterie correspondant aux détaillants, aux consommateurs, aux OEM et aux autres utilisateurs qui demandent un SDS SGH-conforme. Les articles, tels que les piles, sont exemptés de critères de classification SGH SDS. Les critères du SGH ne sont pas conçus ou destinés à être utilisés pour classer les risques physiques, la santé et l'environnement d'un article. batteries de consommation de marque sont définis comme des dispositifs électro-technique. La conception, la sécurité, la fabrication, et la qualification des batteries de consommation de marque Energizer sont conformes aux normes de la batterie ANSI et IEC.

### 1. DOCUMENT D'INFORMATION

Produit Nom: Cellule Li-ion Rechargeable  
Modèle: 803040  
Date d'émission: 06-Mar-2023

### 2. INFORMATIONS SUR LA SOCIÉTÉ

Nom de l'entreprise Dongguan Perfect Amperex Technology Limited  
(Chine)  
Adresse: No 122 District industriel de Sanjiang, ville de HengLi, ville de Dongguan, Province du Guangdong, République populaire de Chine  
Email: zhangyan@patlcell.com  
Téléphone: +86-769-82305866

### 3. ARTICLE D'INFORMATION

La description	Cellule Li-ion Rechargeable
Utilisation	BATTERIE AUX IONS LITHIUM
Marque	----

# Article Information Sheet

# Fiche d'information Article

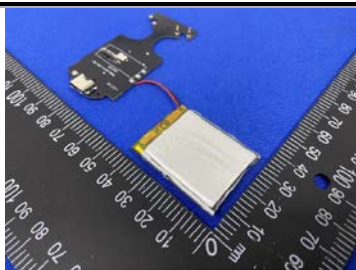
Product name: Rechargeable Li-ion Cell

Printing date:06-Mar-2023

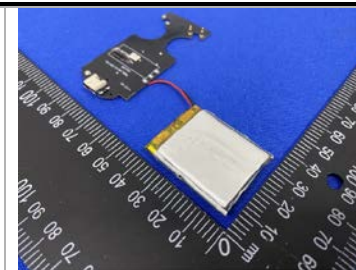
Nom du produit: Cellule Li-ion Rechargeable

Date d'impression: 06-Mar-2023

Image



Image



## 4. ARTICLE CONSTRUCTION

**IMPORTANT NOTE: The battery should not be opened or burned. Exposure to the ingredients contained within or their combustion products could be harmful.**

Chemical name	CAS No.	Concentration%
Lithium Cobalt Oxide (CoLiO <sub>2</sub> )	12190-79-3	36.3
Graphite	7782-42-5	21.8
Phosphate(1-), hexafluoro-, lithium	21324-40-3	20.3
Copper	7440-50-8	12.8
Aluminum foil	7429-90-5	4.4
Nickel	7440-02-0	4.4

## 5. HEALTH AND SAFETY

**Ingestion:** Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

**Inhalation:** Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get medical attention

## 4. ARTICLE CONSTRUCTION

**REMARQUE IMPORTANTE: La batterie ne doit pas être ouvert ou brûlé. L'exposition aux ingrédients contenus dans leurs produits ou de combustion pourrait être nocif.**

Nom chimique	N ° CAS.	Concentration%
Lithium oxyde de cobalt (CoLiO <sub>2</sub> )	12190-79-3	36.3
Graphite	7782-42-5	21.8
Phosphate (1-), hexafluoro-, lithium	21324-40-3	20.3
Cuivre	7440-50-8	12.8
Aluminium foil	7429-90-5	4.4
Nickel	7440-02-0	4.4

## 5. SANTÉ ET SÉCURITÉ

**Ingestion:** Ne pas faire vomir. Se rincer la bouche et boire beaucoup d'eau. Ne portez rien à la bouche d'une personne inconsciente. Appeler un centre de contrôle médecin ou de poison immédiatement.

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Product name: Rechargeable Li-ion Cell

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immediately if symptoms occur.

Skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Immediate medical attention is required. May cause an allergic skin reaction.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate medical attention/advice.

Self-protection of the first aider: Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. Wear personal protective clothing (see section 8).

## 6. FIRE HAZARD & FIREFIGHTING

Fire Hazard Batteries may rupture or leak if involved in a fire.

Extinguishing Media Use any extinguishing media appropriate for the surrounding area.

Special hazards arising from the chemical In case of fire where lithium batteries are present, flood area with water or smother with a Class D fire extinguishant appropriate for lithium metal, such as Lith-X. Water may not extinguish burning batteries but will cool the adjacent batteries and control the spread of fire. Burning batteries will burn themselves out. Virtually all fires involving lithium batteries can be controlled by flooding with water. However, the contents of the battery will react with

Inhalation: À l'air frais. Si la respiration est arrêtée, pratiquer la respiration artificielle. Consulter un médecin immédiatement. Ne pas utiliser le bouche-à-bouche si la victime a ingéré ou inhalé la substance; pratiquer la respiration artificielle à l'aide d'un masque de poche muni d'une valve à une voie ou d'un autre appareil médical approprié. Si la respiration est difficile, (du personnel qualifié devrait) donner de l'oxygène. œdème pulmonaire retardé peut se produire. Consulter un médecin si des symptômes apparaissent.

Contact avec la peau: Laver immédiatement avec du savon et beaucoup d'eau tout en enlevant les vêtements contaminés et les chaussures. Une attention médicale immédiate est nécessaire. Peut provoquer une réaction allergique cutanée.

Lentilles de contact: Rincer immédiatement et abondamment avec de l'eau, y compris sous les paupières, pendant au moins 15 minutes. Gardez l'œil ouvert pendant le rinçage. Ne pas frotter les zones touchées. lentilles de contact Retirer, si elle est présente et facile à faire. Continuer à rincer. Consulter un / des conseils médicaux immédiats.

Auto-protection du secouriste: Veiller à ce que le personnel médical sont au courant de la matière (s) impliqués, prendre des précautions pour se protéger et prévenir la propagation de la contamination. Éviter tout contact avec la peau, les yeux ou les vêtements. Éviter tout contact direct avec la peau. Utilisez barrière pour donner la respiration artificielle bouche-à-bouche. Utiliser un équipement de protection individuel requis. Porter des vêtements de protection individuelle (voir la section 8).

## 6. RISQUE D'INCENDIE & POMPIERS

Risque d'incendie Les piles peuvent se rompre ou fuir si elle est impliquée dans un incendie.

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water and form hydrogen gas. In a confined space, hydrogen gas can form an explosive mixture. In this situation, smothering agents are recommended. A smothering agent will extinguish burning lithium batteries. Precautions for fire-fighters Emergency Responders should wear self-contained breathing apparatus. Burning lithium manganese dioxide batteries produce toxic and corrosive lithium hydroxide fumes.

## 7. HANDLING AND STORAGE

**Storage** Store in a cool, well ventilated area. Elevated temperatures can result in shortened battery life. In locations that handle large quantities of lithium batteries, such as warehouses, lithium batteries should be isolated from unnecessary combustibles.

**Handling** Avoid mechanical and electrical abuse. Do not short circuit or install incorrectly. Batteries may rupture or vent if disassembled, crushed, recharged or exposed to high temperatures. Install batteries in accordance with equipment instructions.

**Spills of Large Quantities Batteries (unpackaged)** Notify spill personnel of large spills. Irritating and flammable vapors may be released from leaking or ruptured batteries. Spread batteries apart to stop shorting. Eliminate all ignition sources. Evacuate area and allow vapors to dissipate. Clean-up personnel should wear appropriate PPE to avoid eye and skin contact and inhalation of vapors or fumes. Increase ventilation. Carefully collect batteries and place in appropriate container for disposal. Remove any spilled liquid with absorbent material and contain for disposal.

**Moyens d'extinction** Utilisez tous les moyens d'extinction appropriés pour la région environnante.

**Dangers particuliers résultant de la substance chimique** En cas d'incendie où des batteries au lithium sont présents, zone inondable avec de l'eau ou avec un ÉTOUFFER approprié incendie Classe d'extinction D pour le métal de lithium, comme Lith-X. L'eau ne peut pas éteindre les piles qui brûlent mais refroidir les batteries adjacentes et contrôler la propagation du feu. Les piles qui brûlent va se brûler. Pratiquement tous les feux impliquant des piles au lithium peuvent être contrôlées par les inondations avec de l'eau. Cependant, le contenu de la batterie réagiront avec l'eau et sous forme d'hydrogène gazeux. Dans un espace confiné, le gaz d'hydrogène peut former un mélange explosif. Dans cette situation, les agents étouffants sont recommandés. Un agent étouffant éteindra la combustion des batteries au lithium.

**Précautions à prendre pour les pompiers** Équipe d'intervention doivent porter un appareil respiratoire autonome. La combustion des piles de dioxyde de manganèse au lithium produisent toxique et corrosif fumées lithium hydroxyde.

## 7. MANIPULATION ET STOCKAGE

**Espace de rangement** de Conserver dans un endroit frais et bien ventilé. Les températures élevées peuvent entraîner dans la vie de la batterie raccourcie. Dans les endroits qui traitent de grandes quantités de Les piles au lithium, tels que les entrepôts, les batteries au lithium doivent être isolés à partir de combustibles inutiles.

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## 8. DISPOSAL CONSIDERATIONS

Dispose of used (or excess) batteries in compliance with federal, state/provincial and local regulations. Do not accumulate large quantities of used batteries for disposal as accumulations could cause batteries to short-circuit. Do not incinerate. In countries, such as Canada and the EU, where there are regulations for the collection and recycling of batteries, consumers should dispose of their used batteries into the collection network at municipal depots and retailers. They should not dispose of batteries with household trash.

## 9. Transport information

The transportation of primary lithium cells and batteries is regulated by the International Civil Aviation Organization, International Air Transport Association, International Maritime Dangerous Goods Code and the US Department of Transportation. The batteries must meet the following criteria for shipment: 1. Air shipments must meet the requirements listed in Special Provision A45 of the International Air Transport Association Dangerous Goods Regulations. 2. Meet the requirements for the US Department of Transportation listed in 49 CFR 173.185. 3. The transport of primary lithium batteries is prohibited aboard passenger aircraft. Refer to the Federal Register December 15, 2004 (Hazardous Materials; Prohibited on the Transportation of Primary Lithium Batteries and Cells Aboard Passenger Aircraft; Final Rule)

Lithium batteries shipped as "Lithium batteries", "Lithium batteries packed with equipment", or "Lithium batteries contained in equipment" may not be classified as "Dangerous Goods" when shipped in accordance with "special provision A45 of IATA-DGR" or "special provision 188 of IMO-IMDG Code"

**(a) UN number** 3480&3481

**(b) UN Proper shipping name** LITHIUM ION BATTERIES (including lithium ion polymer batteries) or;

**Manipulation** Éviter les abus mécaniques et électriques. Ne pas court-circuiter ou installer correctement. Les piles peuvent se rompre ou de ventilation si elles sont démontées, écrasées, rechargées ou exposé à une forte températures. Installez les piles conformément aux instructions du fabricant.

**Déversements de grandes quantités Batteries (non emballés)** Informer le personnel de déversement de grands déversements. Irritant et vapeurs inflammables peuvent être libérés de fuites ou les piles endommagées. piles écartez pour arrêter les courts-circuits. éliminer tous les sources d'allumage. Évacuer la zone et laisser les vapeurs se dissipent. Le personnel de nettoyage devrait porter des EPI appropriés pour éviter les yeux et contact avec la peau et l'inhalation des vapeurs ou fumées. Augmenter la ventilation. batteries cueillent et les placer dans un récipient approprié pour disposition. Retirez tout liquide déversé avec une matière absorbante et contiennent pour l'élimination.

## 8. CONSIDERATIONS RELATIVES À L'ÉLIMINATION

Jetez les piles usagées (ou excédent) conformément aux règlements fédéraux, provinciaux / provinciaux et locaux. Ne pas accumuler de grandes quantités de piles usagées pour l'élimination comme accumulations pourraient provoquer un court-circuit. Ne pas incinérer. Dans les pays, comme le Canada et l'Union européenne, où il existe des règlements pour la collecte et le recyclage des batteries, les consommateurs devraient disposer de leurs piles usagées dans le réseau de collecte dans les dépôts municipaux et les détaillants. Ils ne doivent pas jeter les piles avec les ordures ménagères.

## 9. Informations de transport

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LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT or LITHIUM ION BATTERIES PACKED WITH EQUIPMENT (including lithium ion polymer batteries)

(c) Transport hazard class(es)

9

(d) Packing group (if applicable)

IA

(e) Marine pollutant (Yes/No)

No

(f) Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)

No information available.

(g) Special precautions

No information available.

(h) Organizations governing the transport of lithium batteries

Area	Method	Organization	Special Provision
U.S.A	Air, Rail, Road, Marine	DOT	49 CFR Section 173.185

## 10. REGULATORY INFORMATION

(a) Safety, health and environmental regulations specific for the product in question

CAS No.	USA TSCA	EU EINECS	Japan ENCS	Korea ECL	China IECSC	Canada DSL
12190-79-3	Listed	Listed	Listed	Listed	Listed	Listed
7782-42-5	Listed	Listed	Not listed	Listed	Listed	Listed
21324-40-3	Not listed	Listed	Listed	Listed	Listed	Not listed
7440-50-8	Not listed	Listed	Listed	Listed	Listed	Not listed
7429-90-5	Listed	Not listed	Listed	Listed	Listed	Listed
7440-02-0	Not listed	Listed	Listed	Listed	Not listed	Not listed

Le transport des piles au lithium primaire et les batteries est réglementé par l'Organisation internationale de l'aviation civile, l'Association internationale du transport aérien, Code maritime international des marchandises dangereuses et le Département américain des Transports. Les batteries doivent répondre aux critères suivants pour l'expédition: 1. les livraisons d'air doivent satisfaire aux exigences énumérées à disposition spéciale A45 de l'Association internationale du transport aérien des marchandises dangereuses Règlement. 2. Répondre aux exigences du ministère américain des Transports répertoriés dans 49 CFR 173,185. 3. Le transport des piles au lithium primaire est interdit à bord des avions de passagers. Reportez-vous au Registre fédéral de 15 Décembre 2004 (matières dangereuses, interdites sur le transport des piles au lithium primaire et cellules Aboard passagers d'avion Règle finale)

Les piles au lithium expédiés comme « batteries au lithium », « Les piles au lithium emballées avec un équipement » ou « piles au lithium contenues dans l'équipement » ne peuvent pas être considérés comme des « marchandises dangereuses » lorsqu'ils sont expédiés conformément à la « disposition A45 spéciale de IATA-DGR » ou " disposition spéciale 188 du code de l'OMI-IMDG »

(A) Numéro ONU 3480 & 3481

(B) l'ONU Nom d'expédition Batteries lithium-ion (y compris les piles de polymère au lithium-ion) ou; Batteries lithium-ion contenues dans un équipement ou LITHIUM ION batteries emballées avec un équipement (y compris les piles de polymère au lithium-ion)

(C) classe de danger pour le transport (s) 9

(D) des groupes d'emballage (le cas échéant) IA

(E) Polluant marin (Oui / Non) Non

(F) de transport en vrac (selon) Pas d'information disponible.

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## 11. OTHER INFORMATION

TSCA:	Toxic Substances Control Act, The American chemical inventory.
DSL	Domestic Substances List
EINECS:	European Inventory of Existing Commercial chemical Substances
ENCS	Japanese Existing and New Chemical Substances
ECL:	Existing Chemicals List, the Korean chemical inventory.
IECSC:	Inventory of existing chemical substances in China.

Because all of our batteries are defined as "articles", they are exempted from the requirements of the Hazard Communication Standard. The information in this AIS is provided all the relevant data fully and truly. However, the information is provided without any warranty on their absolute extensiveness and accuracy. This AIS was prepared to provide safety preventive measures for the users who have got professional training. The personal user who obtained this AIS should make independent judgment for the applicability of this AIS under special conditions. In these special cases, we do not assume responsibility for the damage.

----- End of the AIS -----

## l'Annexe II de MARPOL 73/78 et au recueil IBC)

(g) Précautions particulières Pas d'information disponible.

## (H) Les

organisations régissant le transport des batteries au lithium	Zone	Méthode	Organisation	Provision
	Etats-Unis	Aérien, ferroviaire, routier, maritime	POINT	SPECIALE 49 CFR Section 173,185

## 10. INFORMATIONS RÉGLEMENTAIRES

*(A) la sécurité, de santé et de l'environnement spécifique pour le produit en question*

N ° CAS.	Etats-Unis TSCA	UE Einecs	Japon ENCS	Corée ECL	Chine IECSC	Canada DSL
12190-79-3	Listed	Listed	Listed	Listed	Listed	Listed
7782-42-5	Listed	Listed	Non listé	Listed	Listed	Listed
21324-40-3	Non listé	Listed	Listed	Listed	Listed	Non listé
7429-90-5	Non listé	Listed	Listed	Listed	Listed	Non listé
7440-50-8	Listed	Non listé	Listed	Listed	Listed	Listed
7440-02-0	Non listé	Listed	Listed	Listed	Non listé	Non listé

## 11. LES AUTRES INFORMATIONS

TSCA:	Toxic Substances Control Act, l'inventaire chimique américain.
DSL	Liste intérieure
Einecs:	Inventaire européen des substances chimiques existantes commerciales
ENCS	Existantes et nouvelles substances chimiques japonaises
ECL:	Liste des produits chimiques existants, l'inventaire chimique coréenne.

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IECSC: Inventaire des substances chimiques existantes en Chine.  
Parce que toutes nos batteries sont définis comme des « articles », ils sont exemptés des exigences de la norme de communication des risques. Les informations contenues dans ce AIS est fourni tous les pleinement et véritablement les données pertinentes. Cependant, les informations sont fournies sans aucune garantie sur leur extensification absolue et la précision. Cet AIS a été préparé à des mesures préventives de sécurité pour les utilisateurs qui ont obtenu la formation professionnelle. L'utilisateur personnel qui a obtenu ce SIA devrait porter un jugement indépendant pour l'applicabilité de cette AIS dans des conditions particulières. Dans ces cas particuliers, nous n'assumons la responsabilité pour les dommages.

----- Fin de l'AIS -----