



# Safety Data Sheet

Report No.: G21-B0482-1

**Product Name** : Rechargeable Li-ion Coin Cell  
**Model/Type** : ICR1254 V2.0  
**Applicant** : EVE Energy Co.,Ltd.

**CESI (Guangzhou) Standards & Testing Institute Co., Ltd**





## Safety Data Sheet

### SECTION 1. CHEMICAL AND COMPANY IDENTIFICATION

#### Product identifier

**Product Name** Rechargeable Li-ion Coin Cell  
**Product model(s)/ Type** ICR1254 V2.0, 3.7V, 60mAh, 0.222Wh

#### Recommended use of the chemical and restrictions on use

**Recommended Use** LITHIUM ION BATTERIES  
**Uses advised against** No information available

#### Details of the supplier of the safety data sheet

**Initial supplier identifier** EVE Energy Co.,Ltd.  
**Address** NO.38, HuiFeng 7<sup>th</sup> Road, Zhongkai Hi-Tech Zone, HuiZhou, Guangdong, China.  
**Telephone** 86-13828810395  
**E-mail** 049431@evebattery.com

#### Emergency telephone number

**Company Emergency Phone Number** 86-13828810395

**Tested by:** *Daijie* **Date:** *2021.06.10.*

**Checked by:** *Xiongy Xu* **Date:** *2021.06.10*

**Approved by:** *Huang Junying* **Date:** *2021.06.10*

**SECTION 2. HAZARDS IDENTIFICATION****Classification**

The chemical is not considered hazardous category according with GHS unless ruptured, considered hazard class 9 according with UN Model Regulations, Manual of Test and Criteria.

The battery has passed the test items of UN Model Regulations, Manual of Test and Criteria Section UN38.3

**GHS Label elements, including precautionary statements**

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.

**Danger****Hazard statements**

If battery ruptured, then:

Causes skin irritation

Causes serious eye damage

Suspected of causing cancer

Causes damage to organs through prolonged or repeated exposure

**Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Immediately call a POISON CENTER or doctor

**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**

No information available

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****Substance**

Not applicable.

**Mixture**

Chemical name	CAS-No	Percent
Lithium Cobalt Oxide	12190-79-3	≤45
Graphite	7440-44-0	20~35
Polyvinylidene fluoride resin	24937-79-9	<2



Carbon black	1333-86-4	0.2~3
Ethyl Methyl Carbonate	623-53-0	10~18
Phosphate(1-),hexafluoro-,lithium	21324-40-3	

**SECTION 4. FIRST AID MEASURES**

**First aid measures**

- General advice** Immediate medical attention is required. Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention.
- Inhalation** Remove to fresh air. Get medical attention immediately if symptoms occur.
- Eye contact** Get immediate medical advice/attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area.
- Skin contact** Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.
- Ingestion** Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.
- Self-protection of the first aider** Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

**SECTION 5. FIRE-FIGHTING MEASURES**

- Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media** CAUTION: Use of water spray when fighting fire may be inefficient.
- Specific hazards arising from the chemical** No information available.
- Hazardous Products** Combustion Carbon oxides.
- Explosion Data**
- Sensitivity to Impact** Mechanical None.
- Sensitivity to Static Discharge** None.
- Special protective equipment for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**



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

**Personal precautions** Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation. Evacuate personnel to safe areas.

**Other Information** Refer to protective measures listed in Sections 7 and 8.

**Environmental precautions**

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

**SECTION 7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Ensure adequate ventilation. Take off contaminated clothing and wash before reuse.

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

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems.

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

**Eye/face protection** Tight sealing safety goggles.

**Hand protection** Wear suitable gloves. Impervious gloves.

**Skin and body protection** Wear suitable protective clothing. Long sleeved 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.

**General hygiene considerations** Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Wash hands



before breaks and immediately after handling the product.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Physical and Chemical Properties**

<b>Physical state</b>	Solid
<b>Appearance</b>	Coin cell
<b>Odor</b>	Insipidness
<b>Color</b>	Silver
<b>Odor Threshold</b>	No information available

<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks</u></b>	<b><u>Method</u></b>
<b>Water Solubility</b>	Insoluble in water		
<b>Solubility(ies)</b>	No data available	None known	
<b>Partition coefficient:</b>	No data available	None known	
<b>n-octanol/water</b>			
<b>Autoignition temperature</b>	No data available	None known	

**Other Information**

None

**SECTION 10. STABILITY AND REACTIVITY**

<b>Reactivity</b>	No information available.
<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of Hazardous Reactions</b>	None under normal processing.
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	None known based on information supplied.
<b>Incompatible materials</b>	Strong acids. Strong bases. Strong oxidizing agents.
<b>Hazardous Decomposition Products</b>	Carbon oxides.

**SECTION 11. TOXICOLOGICAL INFORMATION**

**Information on likely routes of exposure**

**Product Information**

<b>Inhalation</b>	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.
<b>Eye contact</b>	Specific test data for the substance or mixture is not available. Severely irritating to eyes. Causes serious eye damage. May cause burns. May cause irreversible damage to eyes. (based on components).
<b>Skin contact</b>	Specific test data for the substance or mixture is not available. Causes skin



irritation. (based on components).

<b>Ingestion</b>	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
<b>Skin corrosion/irritation</b>	Classification based on data available for ingredients. Irritating to skin.
<b>Respiratory or skin sensitization</b>	No information available.
<b>Carcinogenicity</b>	Classification based on data available for ingredients. Contains a known or suspected carcinogen.
<b>Reproductive toxicity</b>	No information available.

## SECTION 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	No information available.
<b>Persistence and Degradability</b>	No information available.
<b>Bioaccumulation</b>	No information available.
<b>Component Information</b>	No information available.
<b>Mobility</b>	No information available.
<b>Other adverse effects</b>	No information available.

## SECTION 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

<b>Waste from residues/unused products</b>	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
<b>Contaminated packaging</b>	Do not reuse empty containers.

## SECTION 14. TRANSPORT INFORMATION

<b>Transport:</b>	Lithium ion batteries alone transport
<b>Proper Shipping name:</b>	Lithium ion batteries (including lithium ion polymer batteries)
<b>UN No.:</b>	UN 3480
<b>Label for conveyance:</b>	Li-ion battery handling label, Class 9 hazard label, Cargo aircraft only label (By air)
<b>Certification for Safe Transport of Chemical Goods:</b>	/



**Packaging Group:** N/A

**Marine pollutant:** No

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

**Packing requirements:** The goods shall be complied with the requirements of Section IB of PI 965 of the 62<sup>nd</sup> edition DGR Manual of IATA or special provision188 of IMDG CODE (Amdt. 39-18) Edition, including the passing of the UN38.3 test.

**Transport:** Lithium ion batteries packed with equipment transport

**Proper Shipping name:** Lithium ion batteries packed with equipment (including lithium ion polymer batteries)

**UN No.:** UN 3481

**Label for conveyance:** Li-ion battery handling label

**Certification for Safe Transport of Chemical Goods:** /

**Packaging Group:** N/A

**Marine pollutant:** No

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

**Packing requirements:** The goods shall be complied with the requirements of Section II of PI 966 of the 62<sup>nd</sup> edition DGR Manual of IATA or special provision188 of IMDG CODE (Amdt. 39-18) Edition, including the passing of the UN38.3 test.

**Transport:** Lithium ion batteries contained in equipment transport

**Proper Shipping name:** Lithium ion batteries contained in equipment (including lithium ion polymer batteries)

**UN No.:** UN 3481

**Label for conveyance:** Li-ion battery handling label

**Certification for Safe Transport of Chemical Goods:** /

**Packaging Group:** N/A

**Marine pollutant:** No

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

**Packing requirements:** The goods shall be complied with the requirements of Section II of PI 967 of the 62<sup>nd</sup> edition DGR Manual of IATA or special provision188 of IMDG CODE (Amdt. 39-18) Edition, including the passing of the UN38.3 test.

**SECTION 15. REGULATORY INFORMATION**

OSHA - Occupational Safety and Health Act  
 RTDG - Recommendations on the transport of dangerous goods manual  
 DGR - Dangerous Goods Regulations





**IMDG** - International Maritime Dangerous Goods

**CFR** - Code of Federal Regulations

**TISFDG** - Technical Instructions for the Safe Transport of Dangerous Goods

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

## SECTION 16. OTHER INFORMATION

### **Disclaimer**

This file is only effective to the batteries provided by EVE Energy Co.,Ltd.. The commissioner provides the composition information of batteries, and promises its integrity and accuracy. Users should read this file carefully, and use the batteries in correct method. CESI (Guangzhou) Standards & Testing Institute Co., Ltd doesn't assume responsibility for any damage or loss because of misuse of batteries.

# NOTES

1. The test report shall not be reproduced except in full without the written approval of the Laboratory.
2. The results presented in this report is only valid to the samples.;

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