

# SAFETY DATA SHEET

Applicant's name: JUHEYUAN SCIENCE & TECHNOLOGY CO., LTD

Applicant's Address: No. 3, Tianlong Lane, Qingshui Rd, Longxi Community, Longcheng Street, Longgang District, Shenzhen City, Guangdong 518116, P. R. China

Name of Sample: Rechargeable Li-ion Polymer Battery

Model: JHY803045

Nominal Voltage: 3.7V

Rated Capacity: 1200mAh, 4.44Wh

Weight: 26.0g

Size (L×W×T): (48.0×31.0×8.0)mm

Version number: V1.0

Prepared By: Shenzhen TCT Testing Technology Co., Ltd.  
1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China

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Written by: May Hou Approved by: Athen Qin

Inspected by: Amy Zeng Date: 2019.02



## Section 1- IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### (a) Product Identifier

Name of Sample: Rechargeable Li-ion Polymer Battery  
Model: JHY803045

### (b) Other means of identification

Synonyms: None

### (c) Recommended use of the chemical and restrictions on use

Recommended use: LITHIUM ION BATTERIES  
Restriction on use: No information available.

### (d) Details of the supplier of the product

Company name(China) JUHEYUAN SCIENCE & TECHNOLOGY CO., LTD  
Address: No. 3, Tianlong Lane, Qingshui Rd, Longxi Community, Longcheng Street, Longgang District, Shenzhen City, Guangdong 518116, P. R. China  
E-mail: 529972681@qq.com  
Telephone: +86-755-84516700  
Fax: +86-755-84516750

### (e) Emergency phone number

+86-13418477980

## Section 2- HAZARDS IDENTIFICATION

### (a) Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) This product is an article which is a sealed battery and as such does not require an MSDS per the OSHA hazard communication standard unless ruptured. The hazards indicated are for a ruptured battery.

Acute toxicity - Dermal	Category 4
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (repeated exposure)	Category 1
Carcinogenicity	Category 2

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(b) GHS Label elements, including precautionary statements

Emergency Overview

**Signal word:** Danger

**Hazard Statements**

Harmful if swallowed

Causes severe skin burns and eye damage

May cause an allergic skin reaction

Suspected of causing cancer

Causes damage to organs through prolonged or repeated exposure



This product is an article which contains a chemical substance. Safety information is given for exposure to the article as sold. 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.

**Appearance** Blue

**Physical State** Solid

**Odor** Odorless

**Precautionary**

Obtain special instructions before use

**Statements-**

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

**Prevention**

Use personal protective equipment as required

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

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves

**Precautionary**

IF EXPOSED OR CONNECTED: Get medical advice/attention. Specific treatment (see supplemental first aid/instruction on this label).

**Statements-**

**Response**

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/physician.

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.

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.

IF SWALLOWED: Rinse mouth, do not induce vomiting, call a poison center or doctor/physician if feel unwell.

**Precautionary** Store locked up

**Statements-**

**Storage**

**Precautionary** Dispose of contents/container to an approved waste disposal plant

**Statements-**

**Disposal**

**(c) Hazards not otherwise classified (HNOC)**

Not applicable

**(d) Unknown Toxicity**

23.15% of the mixture consists of ingredient(s) of unknown toxicity.

**(e) Other information**

Very toxic to aquatic life with long lasting effects;

Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

**(f) Interactions with Other Chemicals**

No information available.

**Section 3- Composition/Information on Ingredients**

Chemical Name	CAS Number	Weight-%	Trade Secret
Lithium Cobalt Oxide (CoLiO <sub>2</sub> )	12190-79-3	15-40	•
Graphite	7782-42-5	10-30	•
Phosphate(1-), hexafluoro-, lithium	21324-40-3	10-30	•
Copper	7440-50-8	7-13	•
Aluminum foil	7429-90-5	5-10	•
Nickel	7440-02-0	1-5	•

\* The exact percentage (concentration) of composition has been withheld as a trade secret.

## Section 4- First Aid Measures

### (a) Description of first aid measures

**General Advice** First aid is upon rupture of sealed battery.

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.
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. Remove and isolate contaminated clothing and shoes.
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 immediately if symptoms occur.
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.
Self-protection of the first aider:	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wear personal protective clothing (see section 8).

### (b) Most important symptoms/effects, acute and delayed

**Most important symptoms and effects:** Itching. Coughing and/ or wheezing. Burning sensation.

### (c) Indication of any immediate medical attention and special treatment needed

**Notes to Physician** Treat symptomatically. May cause sensitization of susceptible persons.

## Section 5- Fire Fighting Measures

### (a) Extinguishing media

**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.

### (b) Special hazards arising from the chemical

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors. Product is or contains a sensitizer. May cause sensitization by skin contact.

**Hazardous Combustion Products** Carbon oxides.

**Explosion Data** **Sensitivity to Mechanical Impact:** No.

**Sensitivity to Static Discharge:** No.

**(c) Special protective equipment and precautions for fire-fighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**Section 6- Accidental Release Measures**

**(a) Personal precautions, protective equipment and emergency procedures**

**Personal Precautions:** 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.

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

**(b) Environmental Precautions**

Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so.

**(c) Methods and materials 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.

**Section 7- Handling and Storage**

**(a) Precautions for safe handling**

**Handling:** Handle in accordance with good industrial hygiene and safety practice. Wear personal protective equipment. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

**(b) 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:** Acids. Bases. Oxidizing agent.

**Section 8 - Exposure Controls/Personal Protection**

**(a) Control parameters**

**Exposure Guidelines**

Exposure Guidelines	ACGIH TLV	OSHA PEL	NIOSH IDLH
Lithium Cobalt Oxide (CoLiO <sub>2</sub> ) 12190-79-3	TWA: 0.02 mg/m <sup>3</sup>	-	-

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Graphite 7782-42-5	TWA: 1mg/m <sup>3</sup> respirable fraction 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
Phosphate(1-), hexafluoro-, lithium 21324-40-3	TWA: 2.5mg/m <sup>3</sup> F	TWA: 2.5mg/m <sup>3</sup> F TWA: 2.5mg/m <sup>3</sup> dust (vacated) TWA: 2.5mg/m <sup>3</sup>	
Copper 7440-50-8	TWA: 0.2mg/m <sup>3</sup> fume TWA: 1mg/m <sup>3</sup> Cu dust and mist	TWA: 0.1mg/m <sup>3</sup> fume TWA: 1mg/m <sup>3</sup> dust and mist (vacated) TWA: 0.1mg/m <sup>3</sup> Cu dust, fume, mist	IDLH: 100mg/m <sup>3</sup> dust, fume and mist TWA: 1mg/m <sup>3</sup> dust and mist TWA: 0.1mg/m <sup>3</sup> fume
Aluminum foil 7429-90-5	TWA: 1mg/m <sup>3</sup> respirable fraction	TWA: 15mg/m <sup>3</sup> total dust TWA: 5mg/m <sup>3</sup> respirable fraction (vacated) TWA: 15mg/m <sup>3</sup> total dust (vacated) TWA: 5mg/m <sup>3</sup> respirable fraction (vacated) TWA: 5mg/m <sup>3</sup> AL Aluminum	TWA: 10mg/m <sup>3</sup> total dust TWA: 5mg/m <sup>3</sup> respirable dust
Nickel 7440-02-0	TWA: 1.5mg/m <sup>3</sup>	TWA: 1mg/m <sup>3</sup> (vacated) TWA: 1mg/m <sup>3</sup>	IDLH: 10mg/m <sup>3</sup> TWA: 0.015mg/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 Immediately Dangerous to Life or Health

**Other Exposure Guidelines** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992) See section 15 for national exposure control parameters

**(b) Appropriate engineering controls**

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems

**(c) Individual protection measures, such as personal protective equipment.**

**Eye/Face Protection:** None required for consumer use. If there is a Hazard of contact.. Tight sealing safety goggles. Face protection shield.

<b>Skin and Body Protection:</b>	None required for consumer use. If there is a Hazard of contact. Wear protective gloves and protective clothing.
<b>Respiratory Protection</b>	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
<b>Hygiene Measures</b>	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. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. 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.

## Section 9- Physical and Chemical Properties

### (a) Physical State

<b>Physical state:</b>	Solid	<b>Odor:</b>	Odorless
<b>Appearance:</b>	Blue prismatic solid	<b>Odor Threshold:</b>	No information available
<b>Color:</b>	Blue		

### (b) Chemical Properties

Property	Values	Remarks/ Method
<b>pH</b>	No data available	None known
<b>Melting point/freezing point</b>	No data available	None known
<b>Initial Boiling Point And Boiling Range</b>	No data available	None known
<b>Flash Point</b>	No data available	None known
<b>Evaporation Rate</b>	No data available	None known
<b>Flammability (Solid, Gas)</b>	No data available	None known
<b>Upper/Lower Flammability Or Explosive Limits</b>	No data available	
<b>Vapor Pressure</b>	No data available	None known
<b>Vapor Density</b>	No data available	None known
<b>Relative Density</b>	No data available	None known
<b>Solubility(ies)</b>	Insoluble in water	None known
<b>Partition Coefficient: N-Octanol/Water</b>	No data available	None known
<b>Auto-ignition Temperature</b>	No data available	None known
<b>Decomposition Temperature</b>	No data available	None known
<b>Kinematic viscosity</b>	No data available	None known

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Dynamic viscosity	No data available	None known
Explosive properties	No data available	
Oxidizing Properties	No data available	

**(c) Other Information**

Softening Point	No data available
VOC Content (%)	No data available
Particle Size	No data available
Particle Size Distribution	No data available

**Section 10 – Stability and Reactivity**

<b>(a) Reactivity</b>	No data available.
<b>(b) Chemical stability</b>	Stable under recommended storage conditions.
<b>(c) Possibility of hazardous reactions</b>	None under normal processing.
<b>(d) Hazardous polymerization</b>	Hazardous polymerization does not occur.
<b>(e) Conditions to avoid</b>	None known based on information supplied.
<b>(f) Hazardous decomposition products</b>	Carbon oxides.

**Section 11 – Toxicological Information**

**(a) Information on the likely routes of exposure**

<b>Product Information</b>	Product does not present an acute toxicity hazard based on known or supplied information. In case of rupture:
<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. Expected to be an irritant based on components. Irritating to eyes. May cause redness, itching, and pain. May cause temporary eye irritation.
<b>Skin Contact</b>	Specific test data for the substance or mixture is not available. Corrosive, (based on components). Causes burns. May be absorbed through the skin in harmful amounts. Harmful in contact with skin.
<b>Ingestion</b>	Specific test data for the substance or mixture is not available. 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
Graphite 7782-42-5	> 10000 mg/kg ( Rat )	-	-
Nickel 7440-02-0	>9000 mg/kg ( Rat )	-	-

**(b) Information on toxicological effects**

**Symptoms** Erythema (skin redness). May cause redness and tearing of the eyes. Itching. Rashes. Hives.

**(c) Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Sensitization:** May cause sensitization of susceptible persons. May cause sensitization by skin contact.

**Mutagenic Effects:** No information available.

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

Chemical Name	ACGIH	IARC	NTP	OSHA
Lithium Cobalt Oxide (CoLiO2) 12190-79-3	A3	Group 2B		X
Nickel 7440-02-0		Group 2B	Reasonably Anticipated	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 Carcinogen

**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** Causes damage to organs through prolonged or repeated 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** Contains a known or suspected carcinogen. Avoid repeated exposure. Prolonged exposure may cause chronic effects. May cause adverse liver effects.

**Target Organ Effects** Respiratory system. Eyes. Skin. Gastrointestinal tract (GI). Central Vascular System (CVS). Kidney. Liver. Lungs. Heart.

**Aspiration Hazard** No information available.

**(d) Numerical measures of toxicity Product Information**

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

ATEmix (oral):	2.784.00 mg/kg
ATEmix (dermal):	1.671.00 mg/kg (ATE)

## Section 12-Ecological Information

### (a) Ecotoxicity

Very toxic to aquatic life with long lasting effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Copper 7440-50-8	96h EC50: 0.031 - 0.064 mg/L (Pseudokirchneriella subcapitata) 72h EC50: 0.0426 - 0.0535 mg/L (Pseudokirchneriella subcapitata)	96h LC50: 0.0068 - 0.0158 mg/L (Pimephales promelas) 96h LC50: = 0.112 mg/L (Poecilia reticulata) 96h LC50: = 0.3 mg/L (Cyprinus carpio) 96h LC50: = 0.8 mg/L (Cyprinus carpio) 96h LC50: = 1.25 mg/L (Lepomis macrochirus) 96h LC50: = 0.052 mg/L (Oncorhynchus mykiss) 96h LC50: = 0.2 mg/L (Pimephales promelas) 96h LC50: < 0.3 mg/L (Pimephales promelas)		48h EC50: = 0.03 mg/L
Nickel 7440-02-0	72h EC50: = 0.18 mg/L (Pseudokirchneriella subcapitata) 96h EC50: 0.174 - 0.311 mg/L (Pseudokirchneriella subcapitata)	96h LC50: > 100 mg/L (Brachydanio rerio) 96h LC50: = 1.3 mg/L (Cyprinus carpio) 96h LC50: = 10.4 mg/L (Cyprinus carpio)		48h EC50: > 100 mg/L 48h EC50: = 1 mg/L

### (b) Persistence and Degradability

No information available.

### (c) Bioaccumulation

No information available

### (d) Other adverse effects

No information available.

## Section 13 – Disposal Considerations

### (a) 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.

**Contaminated Packaging:** Disposal should be in accordance with applicable regional, national and local laws and regulations.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Nickel 7440-02-0	(hazardous constituent - no waste number)	Included in waste streams: F006, F039		

**California Hazardous Waste Codes 141**

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

Chemical Name	California Hazardous Waste
Lithium Cobalt Oxide (CoLiO <sub>2</sub> ) 12190-79-3	Toxic
Copper 7440-50-8	Toxic
Aluminum foil 7429-90-5	Ignitable powder
Nickel 7440-02-0	Toxic powder Ignitable powder

**Section 14 – TRANSPORT INFORMATION**

- (a) **UN number** 3480 & 3481
- (b) **Proper shipping name** Lithium ion batteries (limited to a maximum of 30% SoC) or; Lithium ion batteries packed with equipment (including lithium ion polymer batteries) or; Lithium ion batteries contained in equipments (including lithium ion polymer batteries).
- (c) **Label(s) / Placard Required:** Miscellaneous  
Lithium batt
- (d) **Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises**
- ICAO / IATA:** Can be shipped by air in accordance with International Civil Aviation Organization (ICAO), TI or International Air Transport Association (IATA), DGR Packing Instructions (PI) 965 Section II/Section IB, PI 966 Section II and PI 967 Section II appropriate of IATA DGR 61<sup>st</sup> (2020 Edition) for transportation.
- IMDG CODE:** The batteries are not restricted to IMDG Code 2018 Edition (Amdt 39-18) according to special provision 188.
- DOT:** Other requirements for the US Department of Transportation (DOT) Subchapter C, Hazardous Materials Regulations if shipped in compliance with 49 CFR 173.185.
- ADR/ ADN:** The batteries are not subject to the provisions of United Nations Economic Commission for Europe (UNECE) ADR/ADN if they meet the requirements of special provision 188 of Chapter 3.3, Applicable as from 1 January 2019.

In addition, to be permitted in transport each lithium cell and battery types must have passed the applicable tests set out in Subsection 38.3 of the UN Manual of Tests and Criteria.

**Section 15 – Regulatory Information**

**(a) International Inventories**

TSCA: Complies.

DSL: All components are listed either on the DSL or NDSL.

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

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

**(b) 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-%	SARA 313 – Threshold Values %
Lithium Cobalt Oxide (CoLiO <sub>2</sub> )	12190-79-3	15-40	0.1
Copper	7440-50-8	5-10	1.0
Aluminum foil	7429-90-5	5-10	1.0
Nickel	7440-02-0	1-5	0.1

**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

**CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Copper 7440-50-8		X	X	
Nickel 7440-02-0		X	X	

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Copper 7440-50-8	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ
Aluminum foil 7429-90-5			
Nickel 7440-02-0	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ

**(c) US State Regulations**

**California Proposition 65**

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Nickel - 7440-02-0	Carcinogen

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Lithium Cobalt Oxide (CoLiO <sub>2</sub> ) 12190-79-3	X		X	X	X
Graphite 7782-42-5	X	X	X		
Copper 7440-50-8	X	X	X	X	X
Aluminum foil 7429-90-5		X		X	
Nickel 7440-02-0	X	X	X	X	X

**(d) International Regulations**

**Mexico**

**National occupational exposure limits**

Component	Carcinogen Status	Exposure Limits
Graphite 7782-42-5		Mexico: TWA= 2 mg/m <sup>3</sup>
Copper 7440-50-8		Mexico: TWA= 1 mg/m <sup>3</sup> Mexico: TWA= 0.2 mg/m <sup>3</sup> Mexico: STEL= 2 mg/m <sup>3</sup>
Aluminum foil 7429-90-5		Mexico: TWA= 10 mg/m <sup>3</sup>
Nickel 7440-02-0		Mexico: TWA= 1 mg/m <sup>3</sup>

Mexico - Occupational Exposure Limits - Carcinogens

**Canada**

**WHMIS Hazard Class**

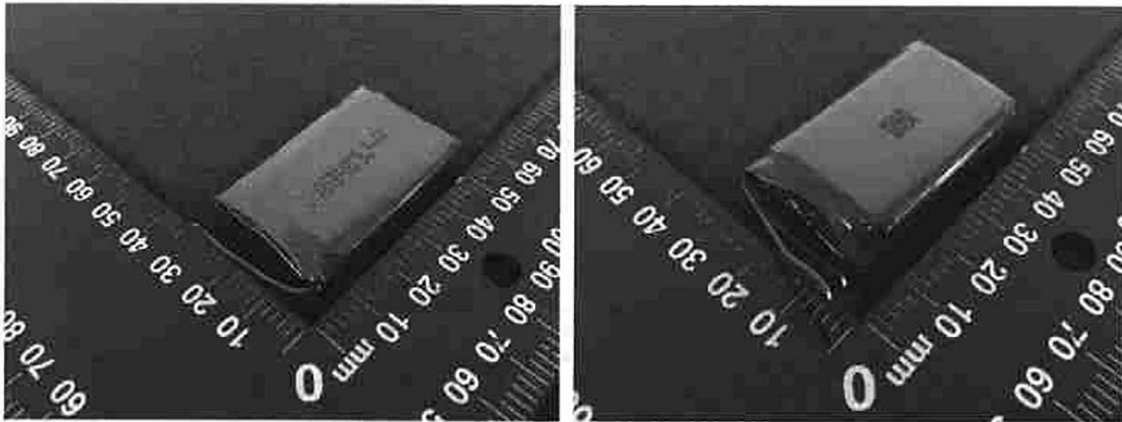
Non-controlled

**Section 16 – Additional Information**

NFPA	Health Hazards	1	Flammability	0	Instability	0	Physical and Chemical Hazards	-
HMIS	Health Hazards	0	Flammability	0	Physical Hazard	0	Personal Protection	X

Revision Note: No information available

Sample photo:



**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 a 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 in combination with any other materials or in any process, unless specified in the text.

\*\*\*\*\*End of Safety Data Sheet\*\*\*\*\*