

# SAFETY DATA SHEET

**Report No.:** CMC210728109M01

Name of sample: Rechargeable Li-ion Polymer Battery

Model: 822024

**Type:** 3.7V, 400mAh, 1.48Wh

Client: Dongguan Golden CEL Battery Co., Ltd.

Address: No.11, Yinhu Industrial park, JiaoYiTangManagement Zone, TangXia, DongGuan, GuangDong, P.R. China

Written: Mia chen Approved: //ylan //a

Reviewed: Meiko Ma

Date of issue: 2022.01.01 Seal of CMC:

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## CMC Testing International (Shenzhen) Co., Ltd.

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## **Safety Data Sheet**

Section 1- Identification of the Substance/Preparation and of the Company/Undertaking				
(a) Product identifier				
Nama of Cample	Rechargeable Li-ion Polymer	Weight	7.3g	
Name of Sample	Battery	Size (LxWxT)	(26.5×20.3×8.5)mm	
Model	822024			
(b) Other means of identif	ication			
Synonyms:	None			
(c) Recommended use of	the chemical and restrictions on u	use		
Recommended use:	LITHIUM ION BATTERIES			
Restriction on use:	No information available.			
(d) Details of the supplier	of the product			
Manufacturer	Dongguan Golden CEL Battery Co., Ltd.			
Manufacturer's Address	No.11, Yinhu Industrial park, JiaoYiTangManagement Zone, TangXia, DongGuan, GuangDong, P.R. China			
Contact Person	Mr. Zhi			
E-mail	zhirongjian@celbattery.com			
Telephone:	+86-769-82195308-8016			
Fax:	+86-769-87982226			
(e) Emergency phone number	+86-769-82195308-8016			

### 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 - Oral	Category 4
Acute toxicity - Dermal	Category 3
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
Skin sensitization	Category 1

## (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 Silver	Physical State Solid Odor Odorless		
	Obtain special instructions before use  Do not handle until all safety precautions have been read and understood		
Precautionary Statements-	Use personal protective equipment as required  Wash face, hands and any exposed skin thoroughly after handling		
Prevention	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		
	IF EXPOSED OR CONNECTED: Get medical advice/attention. Specific treatment (see supplemental first aid/instruction on this label).  IF IN EYES: Rinse cautiously with water for several minutes. Remove		
Precautionary Statements-	contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician.		
Response	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		

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	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 Statements- Storage	Store locked up	
Precautionary Statements- Disposal	Dispose of contents/container to an approved waste disposal plant	
(c) Hazards not otherwise classified (HNOC)	Not applicable	
(d) 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 (LiCoO <sub>2</sub> )	12190-79-3	37.47	*
Graphite	7782-42-5	15.35	*
Copper	7440-50-8	10.36	*
Aluminum foil	7429-90-5	9.21	*
Polypropylene	9003-07-0	1.58	*
1,1-Difluoroethylene poly <mark>mer</mark>	24937-79-9	1.52	*
Polyethylene	9002-88-4	3.15	*
Styrene-Butadiene polymer	9003-55-8	0.86	*
Carboxymethyl cellulose	9000-11-7	0.74	*
Nickel	7440-02-0	1.34	*
Phosphate(1-), hexafluoro-, lithium	21324-40-3	17.49	*
Nylon	24937-16-4	0.93	*

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



	Treport No.: OMOZ 107 20103M01		
Section 4- First Aid Measures			
(a) Description of firs	t 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 imm <mark>ediate medica</mark> l atte <mark>ntion and spe</mark> cial treatment needed			
Notes to Physician	Treat symptomatically. May cause sensitization of susceptible persons.		

Section 5- Fire Fighting Measures			
(a) Extinguishing med	lia		
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.		

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Explosion Data	Sensitivity to Mechanical Impact:	No.
	Sensitivity to Static Discharge:	No.
(c) Special protective equipment and precautions for fire-fighters		

## (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 precaution	ons, 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 Pre	(b) Environmental Precautions		
Refer to protective meas	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			
Exposure Guidelines	ACGIH TLV	OSHA PEL	NIOSH IDLH
Lithium Cobalt Oxide (LiCoO <sub>2</sub> ) 12190-79-3	TWA: 0.02 mg/m³	-	-

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Graphite 7782-42-5	TWA:1mg/m³ respirable fraction all forms except graphite fibers	TWA: 15 mg/m³ total dust synthetic TWA: 5 mg/m³ respirable fraction Synthetic (vacated) TWA: 2.5 mg/m³ respirable dust natural (vacated) TWA: 10 mg/m³ total dust synthetic (vacated) TWA: 5 mg/m³ respirable fraction synthetic TWA: 15 mppcf natural	IDLH: 1250 mg/m³ TWA: 2.5 mg/m³ respirable dust
Phosphate(1-), hexafluoro-, lithium 21324-40-3	TWA:2.5mg/m³ F	TWA:2.5mg/m³ F TWA:2.5mg/m³ dust (vacated)TWA:2.5mg/m³	
Copper 7440-50-8	TWA:0.2mg/m³ fume TWA:1mg/m³Cu dust and mist	TWA:0.1mg/m³fume TWA:1mg/m³dust and mist (vacated) TWA:0.1mg/m³Cu dust,fume,mist	IDLH:100mg/m³dust ,fume and mist TWA:1mg/m³dust and mist TWA:0.1mg/m³ fume
Aluminum foil 7429-90-5	TWA:1mg/m³ respirable fraction	TWA:15mg/m³ total dust TWA:5mg/m³respirable fraction (vacated) TWA:15mg/m³total dust (vacated) TWA:5mg/m³ respirable fraction(vacated) TWA:5mg/m³ AL Aluminum	TWA:10mg/m³ total dust TWA:5mg/m³ respirable dust
Nickel 7440-02-0	TWA:1.5mg/m³	TWA:1mg/m³ (vacated) TWA:1 mg/m³	IDLH:10mg/m³ TWA:0.015mg/m³

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 engineeri <mark>ng</mark>	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.			
Skin and Body Protection:	None required for consumer use. If there is a Hazard of contact:. Wear protective gloves and protective 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.			
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Hvaiene	Measures

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 Cl	nemical F	Properties				
(a) Physical State						
Physical state:	Solid					
Appearance:	Silver P	rismatic	Odor:		Odorless	
Color:	Silver		Odor Threshold:		No information available	
(b) Chemical Properties						
Property		Values		Remarks/ Method		
рН		No data available		None known		
Melting point/freezing poin	t	No data available		None kr	nown	
Initial Boiling Point And Bo	iling	No data available				
Range		No data avallable		None known		
Flash Point		No data available	No data available		None known	
Evaporation Rate		No data available		None known		
Flammability (Solid, Gas)		No data available		None known		
Upper/Lower Flammability Explosive Limits	Or	No data available				
Vapor Pressure		No data available		None kr	nown	
Vapor Density No data available			None kr	nown		
Relative Density N		No data available		None known		
Solubility(les)		<mark>Insolubl</mark> e in water		None known		
Partition Coefficient: N-Octanol/Water		No data available		None kr	nown	
Auto-Ignition Temperature		No data available		None known		
Decomposition Temperatu	re	No data available		None known		
Kinematic viscosity		No data available		None known		
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				
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VOC Content (%)	No data available
Particle Size	No data available
Particle Size Distribution	No data available

Section 10 – Stability and Reactivity				
(a) Reactivity	No data available.			
(b) Chemical stability	Stable under recommended storage conditions.			
(c) Possibility of hazardous reactions	None under normal processing.			
(d) Hazardous polymerization	Hazardous polymerization does not occur.			
(e) Conditions to avoid	None known based on information supplied.			
(f) Hazardous decomposition products	Carbon oxides.			

Section 11 – Toxicologic	al Information				
(a) Information on the	like <mark>ly routes of exposur</mark>	e			
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 of respiratory tract.	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.			
Eye Contact	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.				
Skin Contact	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.				
Ingestion	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 Informatio	n				
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 tox	cicological effects				
Symptoms	Erythema (skin redness	). May cause redness and	tearing of the eyes. Itching.		

(b) Information on toxicological effects			
Symptoms	Erythema (skin redness). May cause redness and tearing of the eyes. Itching. Rashes. Hives.		



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(c) Delayed and imm	ediate effects as w	ell as chronic effe	cts from short an	d long-term exposure		
Sensitization:	May cause sens contact.	May cause sensitization of susceptible persons. May cause sensitization by skin contact.				
Mutagenic Effects:	No information a	No information available.				
Carcinogenicity:	The table below carcinogen.	The table below indicates whether each agency has listed any ingredient as a carcinogen.				
Chemical Name	ACGIH	ACGIH IARC NTP OSH				
Lithium Cobalt Oxide (LiCoO <sub>2</sub> ) 12190-79-3	А3	Group 2B		х		
Nickel 7440-02-0		Group 2B	Reasonably Anticip	pated X		
PVC (Chloroethylene, polymer) 9002-86-2		Group 3				
NTP (National Toxicology P Reasonably Anticipated - Rea OSHA (Occupational Safety X - Present	asonably Anticipated to be	-	nt of Labor)			
Reproductive Toxicity	No information a	available.				
STOT - single exposure	No information a	available.				
STOT - repeated exposure	classification cr CFR 1910.1200	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 a	No information available.				
(d) Numerical measu	res o <mark>f toxicity Pro</mark>	duct Information				
The following values are calculated based on ATEmix (oral):						
chapter 3.1 of the GHS	S document ATEmix (dermal):					



## 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 - 0.054 mg/L (Pseudokirchneriella subcapitata) 72h EC50: 0.0426 - 0.0535 mg/L (Pseudokirchneriella subcapitata)	96h LC50: 0.0068 - 0.0156 mg/L (Pimephales romelas) 96h LC50: = 0.112 mg/L (Poecilia reticulata) 96h LC50: = 0.3 mg/L (Cyprinus carpio) 96h LC50: = 0.8mg/L (Cyprinus carpio) 96h LC50: = 1.25 mg/L (Lepomis macrochirus) 96h LC50: =0.052 mg/L (Oncorhynchus mykiss) 96h LC50: = 0.2mg/L (Pimephales promelas) 96h LC50: < 0.3 mg/L (Pimephales promelas)		(Water Flea) 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 availab	ole.		
(c) Bioaccumulation	No information availab	ole		
(d) Other adverse effects	No information availab	ble.		

Section 13 – Disposal Considerations					
(a) Waste treatment methods					
Disposal methods:	(40 CFR 261). This notherwise comes in comparison to this material, or if the 261 to determine who	plied, is not a hazardous naterial could become a contact with a hazardous the material is processed ther the altered material gional, or local regulation	hazardous waste if it s waste, if chemical ad d or otherwise altered. al is a hazardous wast	is mixed with or ditions are made . Consult 40 CFR e. Consult the	
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			

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#### 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 (LiCoO₂) 12190-79-3	Toxic		
Copper 7440-50-8	Toxic		
Aluminum foil 7429-90-5	Ignitable powder		
Nickel	Toxic powder		
7440-02-0	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 IB, PI 966 Section II and PI 967 Section II appropriate of IATA DGR 63 <sup>rd</sup> (2022 Edition) for transportation.				
IMDG CODE:	The batteries are not restricted to IMDG Code 2020 Edition (Amdt 40-20) 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 2021.				

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.	

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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 (LiCoO <sub>2</sub> )	12190-79-3	30-60	0.1	
Copper	7440-50-8	5-10	1.0	
Aluminum foil	7429-90-5	1-5	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		X	X	
7440-50-8				
Nickel		V	V	
7440-02-0		^	^	

#### **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	5000 lb		RQ 5000 lb final RQ
7440-50-8			RQ 2270 kg final RQ
Aluminum foil			
7429-90-5			
Nickel	400 lb		RQ 100 lb final RQ
7440-02-0	100 lb		RQ 45.4 kg final RQ

## (c) US State Regulations

#### **California Proposition 65**

This product contains the following Proposition 65 chemicals.

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Chemical Name	California Proposition 65

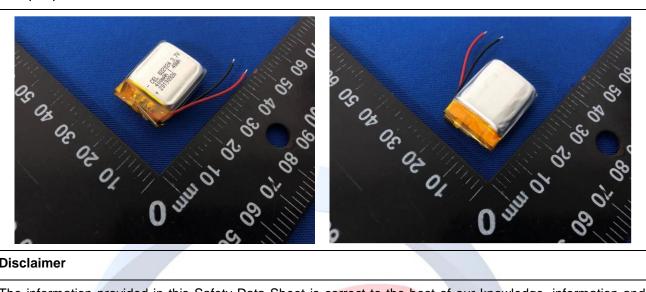
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Nickel - 7440-02-0					Carcinogen			
U.S. State R	Right-to-	Know Reg	ulations					
Chemical Name New Jersey		Massachusetts	Pennsylva	nia Rhode	Island Illinois	5		
Lithium Cobalt ( (LiCoO <sub>2</sub> ) 12190-79-3		Х		х	>	X X		
Graphite 7782-42-5		Х	Х	Х				
Copper 7440-50-8		Х	X	X	>	X		
Aluminum fo 7429-90-5	il		X	х		х		
Nickel 7440-02-0		х	х	Х	,	X X		
(d) Internati	onal Re	gulations						
Mexico								
National occu	upational	exposure li	mits					
С	ompone	nt	Carcinog	gen Status		Exposure Limits		
Graphite 7782-42-5						Mexico: TWA= 2 mg/m3		
Copper 7440-50-8						Mexico: TWA= 1 mg/m3 Mexico: TWA= 0.2 mg/m3 Mexico: STEL= 2 mg/m3		
A	Numinum fo 7429-90-5			Mexico: TWA 10 mg/				
Nickel 7440-02-0			Mexico: TWA= 1 mg/m3					
Mexico - Occupa	ational Exp	osure Li <mark>mits - (</mark>	Carcinogens					
Canada								
WHMIS Hazard	Class							
Non-controlled								
Section 16 –	Additiona	al Information	on					
NFPA	Hea Haza	1 1	Flammability	0 Instat	oility 0	Physical and Chemical Hazards	-	
HMIS	Hea Haza		Flammability	O Phys		Personal Protection	Х	
Revision Not	e:	No inform	ation available	1	1 1		1	



## Sample photo:



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\*\*\*\*\*\*End of report\*\*

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