

**Report No.: ZH20240615MSDS06**

# *MATERIAL SAFETY DATA SHEET*

Product Name: Li-Ion Polymer Battery

Type/Model: ZH 14500(1S1P) 3.7V 800mAh 2.96Wh

Revision Date: Jun 15th, 2024

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## SECTION1:Identification of the substance/mixture and of the company/undertaking

### 1.1ProductIdentifier

**Name of Product:** Lithium-ion rechargeable pack battery

### 1.2Other means of identification

**ProductModels:**ZJ14500

**NominalVoltage:** 3.7v

**Nominal capacity:**800mAh

**NominalPower:** 2.96Wh

**Weight:** 13g

### 1.3Recommendeduseofthe chemical and restriction on use

**Recommended Use:** Rechargeable Li-ion Battery

**Restriction on Use:** No information available

### 1.4Information Of Company:

**Company Name:** AEC Lighting Solutions Co., Ltd

**Address:** 2548 Bao'an Highway, Jiading District, Shanghai 201801, China

**Zip code:**201800

**Contact person:** Bruce Li

**Tel:**+86-021-69153369

**E-mail:** Bruce.li@aeclight-reel.com

### 1.5EmergencyTelephone

**+86-021-69153369**

## SECTION2.Hazard(s) Identification

### 2.1Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard(29CFR1910.1200).This product is an article which is a sealed battery and as such does not require an SDS per the OSHA hazard communication standards unless ruptured.The hazards indicated are for a ruptured battery.

Skin corrosion/irritation	Category2
Serious eye damage/eye irritation	Category2A
Carcinogenicity	Category2
Specific target organ toxicity(repeated exposure)	Category1

### 2.2 Label elements

**2.2.1Signal Word**      **Danger**

#### **2.2.2Hazard Statements**

This is a battery. In case of rupture:

Harmful if swallowed

Toxic if swallowed

Harmful in contact with skin

Cause severe skin burns and eye damage

May cause an allergic or reaction

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May cause cancer  
Cause damage to organs  
May cause respiratory irritation

## 2.2.3 Symbol



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.  
Wear protective gloves

### 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)

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Not applicable

## 2.5 Unknown Toxicity

10% 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

Use of alcoholic beverages may enhance toxic effect.

## SECTION 3. Composition/ Information on Ingredients

Chemical Name	CAS No.	Weigh%
Lithium Cobalt Oxide	12190-79-3	35
Graphite powder	7782-42-5	21
Lithium hexafluorophosphate	21324-40-3	19
Copper	7440-50-8	15
Aluminium	7429-90-5	1
PVC(chloroethylene, polymer)	9002-86-2	3
PVDF	24937-79-9	5
Nickel	7440-02-0	1

## 4. First Aid Measures

### 4.1 General Advice

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

#### 4.1.1 Eye contact

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

#### 4.1.2 Skin Contact

Wash off immediately with plenty of water and soap for at least 15 minutes. In the case of skin Irritation or allergic reaction see a physician. May cause an allergic skin reaction.

#### 4.1.3 Inhalation of Vented Gas

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 substances; 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.

#### 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.

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

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

## **SECTION 5. Fire-Fighting Measures**

### **5.1 Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### **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 in halation and skin contact. Product is or contains a sensitizer.

### **Hazardous Combustion products**

Carbon oxides.

### **5.4 Explosion Data**

**Sensitivity to Mechanical Impact :No.**

**Sensitivity to Static Discharge: No.**

### **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.

## **SECTION 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**

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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.

## 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.

## SECTION 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.

## SECTION 8. Exposure Controls/Personal Protection

### 8.1 Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Graphite 7782-42-5	TWA:2 mg/m <sup>3</sup> respirable fraction all forms except graphite fibers	OSHA PEL TWA:15 mg/m <sup>3</sup> total dust synthetic TWA:5mg/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	NIOSH IDLH IDLH:1250 mg/m <sup>3</sup> TWA2.5 mg/m <sup>3</sup> (resp)
Cobalt lithium manganese nickel oxide 182442-95-1	TWA:0.02mg/m <sup>3</sup>	-	
Lithium hexafluorophosphate 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	TWA:0.2 mg/m <sup>3</sup> fume	TWA:0.1 mg/m <sup>3</sup> fume	IDLH:100 mg/m <sup>3</sup> dust,

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7440-50-8	TWA:1mg/m <sup>3</sup> Cu dust and mist	TWA:1 mg/m <sup>3</sup> dust and mist (vacated)TWA:0.1mg/m <sup>3</sup> Cu dust, fume, mist	Fume and mist TWA:1 mg/m <sup>3</sup> dust and mist TWA:0.1 mg/m <sup>3</sup> fume
Aluminum 7429-90-5	TWA:1mg/m <sup>3</sup>	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> Aluminum	IDLH:10mg/m <sup>3</sup> Total dust TWA:5mg/m <sup>3</sup> Respirable dust

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-CLOv.OSHA,965F,2d 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.

## SECTION 9. Physical and Chemical Properties

**Physical State:** Solid

**Color:** Blue

**Odor:** Odorless

**Odor Threshold:** No information available

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**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

**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

## SECTION10.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 dose 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



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## SECTION 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 (based on components). Inhalation of corrosion fumes/gases may cause coughing, choking, headache, dizziness and weakness for several hours. 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.

**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. Maybe 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	OralLD50	DermalLD50	InhalationLC50
Graphite 7782-42-5	> 10000mg/kg ( Rat )	-	-

### 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

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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
Cobalt lithium manganese nickel oxide 182442-95-1	A3	Group2B		X

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

A3-AnimalCarcinogen

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

Group2B- 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 exposure. Based on classification criteria from the 2012 OSHA Hazard Communication Standard (29CFR 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 3.1of the GHS document.

ATE mix(oral): 2900mg/kg

## SECTION12. Ecological Information

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

Chemical name	Toxicity to Aglae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna(Water Flea)
Cooper 7440-50-8	96h EC50:0.31-0.045mg/l	96h LC50:0.068-0.0156mg/L (pimephales promelas)		48h EC50:=0.03mg

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(pseudokirchneriella subcapitata)	96h LC50:=0.112mg/L(Poecilia reticulate)	/1
72h	96h	
EC50:0.426-0.0535mg/l	LC50=0.3mg/L(Cyprinusmarpio)	
(pseudokirchneriella subcapitata)	96h	
	LC50=0.8mg/L((Cyprinusmarpio)	
	96h	
	LC50=1.25mg/L(Lepomismacrochirus)96h	
	LC50=0.052mg/L(Oncorhynchus mykiss)96h	
	LC50=0.2mg/L(Pimephalespromelas)96h	
	LC50: < 0.3mg/L(Pimephalespromelas)	

**Persistence and Degradability:** No information available

**Bioaccumulation:** No information available

**Other adverse effects:** No information available

## SECTION13.Disposal Considerations

### 13.1Waste 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 Hazardous waste.

Chemical Name	California Hazardous Waste
Copper7440-50-8	Toxic
Aluminum 7429-90-5	Ignitable powder
Cobalt lithium manganese nickel oxide 182442-95-1	Toxic

## SECTION14.Transportation Information

According to Packing Instruction 965-970 of IATA DGR 62<sup>th</sup> Edition for transportation, the

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Special provision 188 of IMDG. The batteries should be securely packed and protected against short-circuits. Examine whether the package of the containers are integrate and tighten closed before transport. Take in a cargo of them without falling, dropping, and breakage. Prevent collapse of cargo piles. Don't put the goods together with oxidizer and chief food chemicals. The transport vehicle should prevent exposure, rain and high temperature. For stopovers, the Vehicle should be away from fire and heat sources. When transported by sea, the assemble place should keep away from bedroom and kitchen, and isolated from the engine room, Power and fire sources. Under the condition of road transportation, the driver should drive in Accordance with regulated route, don't stopover in the residential area and congested area. Forbid to use wooden, cement for bulk transport:

Lithium batteries shipped as "Lithium batteries", "Lithium batteries packed with equipment", or "Lithium batteries contained in equipment" may not be classified as "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

**ICAO:** Not regulated

**IATA:**

1. Proper Shipping Name: Lithium ion batteries packed with equipment

Hazard Class: N/A

UN Number: Not restricted

Packaging requirement: According to IATA DGR 65<sup>nd</sup> Edition , PACKING INSTRUCTION 966 of section II for transportation.

2. Proper Shipping Name: Lithium ion batteries

UNNumber:UN3480

Hazard Class:9

Packaging requirement: According to IATA DGR 65<sup>nd</sup> Edition, PACKING IN STRUCTION 965 of section IB for transportation.

**IMDG/IMO:** Not regulated

**Proper Shipping Name:** NON REGULATED

**Hazard Class:** N/A

**EmsNo.:**F-A,S-1

**RID:** Not regulated

**ADR:** Not regulated

**AND:** Not regulated

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## SECTION 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 (%)	SARA 313-Threshold values (%)
Cobalt lithium manganese nickel oxide	182442-95-1	40-45	0.1
Copper	7440-50-8	5-10	1.0
Aluminum	7429-90-5	2-10	1.0

### 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 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	
Cobalt lithium manganese nickel oxide 182442-95-1		X	X	

### 15.5 CERCLA

This material, as supplied, contains one or more substances regulated as hazardous 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

### 15.6 US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Cobalt lithium manganese nickel oxide 182442-95-1	Carcinogen

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Graphite 7782-42-5	x	x	x		
Cobalt lithium manganese nickel oxide 182442-95-1			x	x	x
Copper 7440-50-8	x	x	x	x	x
Aluminum 7429-90-5	x	x	x	x	

### 15.7 International Regulations

#### Canada

WHMIS Hazard Class  
Non-controlled

## SECTION 16. Other Information

#### Accordinging standard:

GB/T 16483-2008 Safety data sheet for chemical products Content and order of sections

ISO 11014:2009(E) Safety data sheet for chemical products–Content and order of sections

2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

#### 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.