SAFETY DATA SHEET

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NGHS / English



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1. IDENTIFICATION

Product identifier	
Product Name	Positec 20v 2.0Ah li battery
Other means of identification	
Product Code(s)	1205382
Recommended use of the chemical	and restrictions on use
Recommended Use	LITHIUM ION BATTERIES
Restrictions on use	No information available
Details of the supplier of the safety	data sheet
Supplier Identification	Positec(Macao Commercial Offshore) Limited
Address	18 Dongwang Road, Suzhou Industrial Park Suzhou Jiangsu 215123 CN
Telephone	Phone:(86) 512 65152888 Fax:(86) 512 65152885
E-mail	email@positecgroup.com
Emergency telephone number	
Company Emergency Phone Number	In USA and Canada 1-800-424-9300. Outside USA and Canada 1-703-741-5970

2. HAZARDS IDENTIFICATION

Classification

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1



Carcinogenicity	Category 1A
Specific target organ toxicity (repeated exposure)	Category 1

This is a battery. In case of rupture: the above hazards exist.

Appearance Black

Physical state Solid

Odor Neutral

GHS Label elements, including precautionary statements

Danger

Hazard statements Harmful if swallowed Causes skin irritation Causes serious eye irritation May cause an allergic skin reaction May cause cancer Causes damage to organs through prolonged or repeated exposure



Precautionary Statements - Prevention

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Wear protective gloves/protective clothing/eye protection/face protection Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Contaminated work clothing must not be allowed out of the workplace Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Specific treatment (see supplemental first aid instructions on this label)

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention **Skin**

IF ON SKIN: Wash with plenty of water and soap

Take off contaminated clothing and wash it before reuse

If skin irritation or rash occurs: Get medical advice/attention Ingestion

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell Rinse mouth

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other information

Very toxic to aquatic life with long lasting effects.



Unknown acute toxicity

94.42 % of the mixture consists of ingredient(s) of unknown toxicity

62.8 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

93.35 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

94.42 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas) 94.42 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

94.42 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not applicable.

<u>Mixture</u>

Chemical name	CAS No.	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Nylon-6	25038-54-4	34.51	-	-
Iron	7439-89-6	12.66	-	-
Copper	7440-50-8	9.83	-	-
Lithium nickel oxide (LiNiO2)	12031-65-1	4.7	-	-
Aluminum	7429-90-5	4.15	-	-
Nickel	7440-02-0	3.65	-	-
Lithium manganese oxide (LiMn2O4)	12057-17-9	2.82	-	-
Manganese	7439-96-5	2.45	-	-
Lithium Cobalt Oxide (CoLiO2)	12190-79-3	1.88	-	-
PVC (Chloroethylene, polymer)	9002-86-2	1.26	-	-
Phosphate(1-), hexafluoro-, lithium	21324-40-3	1.07	-	-
Carbon black	1333-86-4	0.35	-	-
Silver	7440-22-4	0.14	-	-

4. FIRST AID MEASURES

Description of first aid measures

General advice Inhalation	First aid is upon rupture of sealed battery. Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention. Remove to fresh air. Get medical attention immediately if symptoms occur.
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. Get medical attention if irritation develops and persists. Do not rub affected area.
Skin contact	May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician. Wash off immediately with soap and plenty of water for at least 15 minutes.
Ingestion	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.



Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).		
Most important symptoms and effec	ts, both acute and delayed		
Symptoms	tching. Rashes. Hives. Burning sensation.		
Indication of any immediate medical	attention and special treatment needed		
Note to physicians	May cause sensitization in susceptible persons. Treat symptomatically.		
	5. FIRE-FIGHTING MEASURES		
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.		
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.		
Specific hazards arising from the chemical	Product is or contains a sensitizer. May cause sensitization by skin contact.		
Hazardous Combustion Products	Carbon oxides.		
Explosion Data Sensitivity to Mechanical Impact 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.		

6. ACCIDENTAL RELEASE MEASURES

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.	
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.	

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

In case of rupture: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient



ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

Conditions for safe storage, including any incompatibilities

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Storage Conditions

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits

Chemical name	ACGIH T	LV	05	SHA PEL		NIOSH IDLH
Copper	TWA: 0.2 mg/r	TWA: 0.2 mg/m ³ fume		1 mg/m³ fume	IDLH	l: 100 mg/m ³ dust, fume
7440-50-8				/m ³ dust and mist		and mist
			```	NA: 0.1 mg/m ³ Cu		: 1 mg/m ³ dust and mist
				fume, mist		NA: 0.1 mg/m ³ fume
Lithium nickel oxide (LiNiO2)	TWA: 0.2 mg/m ³ Ni inhalable			1 mg/m³ Ni		IDLH: 10 mg/m ³ Ni
12031-65-1	particulate r	natter	(vacated)	ΓWA: 1 mg/m³ Ni	TW	A: 0.015 mg/m ³ except
	L					Nickel carbonyl Ni
Aluminum	TWA: 1 mg/m ³			ng/m ³ total dust		A: 10 mg/m ³ total dust
7429-90-5	particulate r	natter		g/m ³ respirable	TWA:	5 mg/m ³ respirable dust
				raction		
			(vacated) IV	VA: 15 mg/m ³ total		
			(ve e ete el)	dust TWA: 5 mg/m ³		
Nickel	TWA: 1.5 m	a/m ³		able fraction A: 1 mg/m ³		IDLH: 10 mg/m ³
7440-02-0	TWA. 1.5 II	ig/m²		TWA: 1 mg/m ³		TWA: 0.015 mg/m ³
Lithium manganese oxide	TWA: 0.2 mg	/m³ Mn	(vacated)	Ceiling: 5 mg/m ³		DLH: 500 mg/m ³ Mn
(LiMn2O4)	1 WA. 0.2 mg			: 5 mg/m ³ Mn		TWA: 1 mg/m ³ Mn
12057-17-9			Coming	. o mg/m mm		STEL: 3 mg/m ³ Mn
Manganese	TWA: 0.02 mg/m ³	respirable	(vacated) TV	VA: 1 mg/m ³ fume		IDLH: 500 mg/m ³
7439-96-5	particulate matter			EL: 3 mg/m ³ fume	Ιт	WA: 1 mg/m ³ fume
	TWA: 0.1 mg/m ³ inhalable			Ceiling: 5 mg/m ³		STEL: 3 mg/m ³
	particulate r			5 mg/m ³ fume		<b>3</b>
Lithium Cobalt Oxide (CoLiO2)				-		
12190-79-3		5				
PVC (Chloroethylene, polymer	TWA: 1 mg/m ³	respirable		-		
9002-86-2	particulate r	natter				
Phosphate(1-), hexafluoro-,	TWA: 2.5 mg/m ³ F		TWA: 2.5 mg/m ³ F			IDLH: 250 mg/m ³ F
lithium	Ŭ		(vacated) TWA: 2.5 mg/m ³			
21324-40-3						
Carbon black	TWA: 3 mg/m ³			: 3.5 mg/m ³		IDLH: 1750 mg/m ³
1333-86-4	particulate r	natter	(vacated) TWA: 3.5 mg/m ³		TWA: 3.5 mg/m ³	
						0.1 mg/m ³ Carbon black
						presence of Polycyclic
				0.04 / 0		hatic hydrocarbons PAH
Silver	TWA: 0.1 mg/m ³ dust and fume			0.01 mg/m ³		DLH: 10 mg/m ³ dust
7440-22-4			(vacated) TWA: 0.01 mg/m ³			VA: 0.01 mg/m ³ dust
					I WA:	0.9 µg/m ³ nanoparticles
Chemical name	Alberta	British C	alumbia			<100 nm Quebec
				Ontario TWAE		TWA: 0.2 mg/m ³
Copper	TWA: 0.2 mg/m ³	VA: 0.2 mg/m ³ TWA: 1 WA: 1 mg/m ³ TWA: 0.1				TWA: 0.2 mg/m ³ TWA: 1 mg/m ³
1-10-00-0	i w.a. i my/m	1004.0.	<u>د ۱۱۹</u> /۱۱۰	i wa. i mg/m		TWA. THIS/III-



Lithium nickel oxide (LiNiO2) 12031-65-1	TWA: 0.2 mg/m ³	TWA: 0.05 mg/m ³	TWA: 0.2 mg/m ³	TWA: 1 mg/m ³
Aluminum 7429-90-5	TWA: 10 mg/m ³	TWA: 1.0 mg/m ³	TWA: 1 mg/m ³	TWA: 10 mg/m ³
Nickel 7440-02-0	TWA: 1.5 mg/m ³	TWA: 0.05 mg/m ³	TWA: 1 mg/m ³	TWA: 1 mg/m ³
Lithium manganese oxide (LiMn2O4) 12057-17-9	TWA: 0.2 mg/m ³	TWA: 0.2 mg/m ³ TWA: 0.02 mg/m ³	TWA: 0.02 mg/m ³ TWA: 0.1 mg/m ³	TWA: 0.2 mg/m ³
Manganese 7439-96-5	TWA: 0.2 mg/m ³	TWA: 0.2 mg/m ³ TWA: 0.02 mg/m ³	TWA: 0.2 mg/m ³	TWA: 0.2 mg/m ³
Lithium Cobalt Oxide (CoLiO2) 12190-79-3	TWA: 0.02 mg/m ³	TWA: 0.02 mg/m ³	TWA: 0.02 mg/m ³	TWA: 0.02 mg/m ³
PVC (Chloroethylene, polymer) 9002-86-2		TWA: 1 mg/m ³	TWA: 1 mg/m ³	
Phosphate(1-), hexafluoro-, lithium 21324-40-3	TWA: 2.5 mg/m ³	TWA: 2.5 mg/m ³	TWA: 2.5 mg/m ³	TWA: 2.5 mg/m ³
Carbon black 1333-86-4	TWA: 3.5 mg/m ³	TWA: 3 mg/m ³	TWA: 3 mg/m ³	TWA: 3.5 mg/m ³
Silver 7440-22-4	TWA: 0.1 mg/m ³	TWA: 0.01 mg/m ³ STEL: 0.03 mg/m ³	TWA: 0.1 mg/m ³	TWA: 0.1 mg/m ³

#### Other Exposure Guidelines

See section 15 for national exposure control parameters.

### Appropriate engineering controls

**Engineering controls** 

Showers Eyewash stations Ventilation systems.

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

Eye/face protection	Wear safety glasses with side shields (or 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	Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical propertiesPhysical stateSolidAppearanceBlackOdorNeutralColorNo information availableOdor ThresholdNot applicable



Bronorty	Values	Remarks Method
Property pH	No data available	None known
Melting / freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash Point	No data available	None known
Evaporation Rate	No data available	None known
Flammability (solid, gas)	No data available	None known
	NU Uala avaliable	None known
Flammability Limit in Air	Nuclear and the late	NOTE KIOWI
Upper flammability limit	No data available	
Lower flammability limit	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	No data available	None known
Water Solubility	Insoluble in water	
Solubility(ies)	No data available	None known
Partition coefficient: n-octanol/wate	er0	
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Other Information		
Other Information	No information available	
Explosive properties Oxidizing properties	No information available	
Softening Point	No information available	
5	No information available	
Molecular Weight VOC Content (%)	No information available	
( )	No information available	
Liquid Density	No information available	
Bulk Density Particle Size	No information available	
Particle Size Distribution	No information available	

### **10. STABILITY AND REACTIVITY**

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

Hazardous Decomposition Products Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

### 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. May cause irritation of

	respiratory tract.
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). Irritating to eyes.
Skin contact	Specific test data for the substance or mixture is not available. May cause sensitization by skin contact. Causes skin irritation. (based on components). Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Harmful if swallowed. (based on components).

### Information on toxicological effects

Symptoms

Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes.

### Numerical measures of toxicity

### Acute Toxicity

# The following values are calculated based on chapter 3.1 of the GHS document . ATEmix (oral) 1,315.70 mg/kg

#### **Unknown acute toxicity** 94.42 % of the mixture consists of ingredient(s) of unknown toxicity

- 62.8 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 93.35 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 94.42 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- 94.42 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 94.42 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Iron	= 30 g/kg (Rat)	-	-
Nickel	> 9000 mg/kg (Rat)	-	> 10.2 mg/L (Rat)1 h
Manganese	= 9 g/kg (Rat)	-	-
Lithium Cobalt Oxide (CoLiO2)	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 5.05 mg/L (Rat)4 h
Carbon black	> 15400 mg/kg (Rat)	> 3 g/kg (Rabbit)	-
Silver	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rat)	-

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

Skin corrosion/irritation	Classification based on data available for ingredients. Irritating to skin.	
Serious eye damage/eye irritation	Classification based on data available for ingredients. Causes serious eye irritation.	
Respiratory or skin sensitization	May cause sensitization by skin contact.	
Germ cell mutagenicity	No information available.	
Carcinogenicity	Contains a known or suspected carcinogen. Classification based on data available for ingredients. May cause cancer.	

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

Chemical name	ACGIH	IARC	NTP	OSHA
Nylon-6 25038-54-4	-	Group 3	-	-
Lithium nickel oxide	A1	Group 1	Known	Х



(LiNiO2)				
12031-65-1				
Nickel	-	Group 2B	Reasonably Anticipated	Х
7440-02-0		-		
Lithium Cobalt Oxide	A3	Group 2B	Reasonably Anticipated	Х
(CoLiO2)				
12190-79-3				
PVC (Chloroethylene,	-	Group 3	-	-
polymer)				
9002-86-2				
Carbon black	A3	Group 2B	-	Х
1333-86-4				
Legend				
ACGIH (American Co	nference of Governme	ntal Industrial Hygienis	ts)	
A1 - Known Human Ca	arcinogen			
A3 - Animal Carcinoge	n			
	gency for Research or	Cancer)		
Group 1 - Carcinogeni				
	arcinogenic to Humans			

Group 3 - Not Classifiable as to Carcinogenicity in Humans

NTP (National Toxicology Program) Known - Known Carcinogen

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.
Aspiration hazard	No information available.

### **12. ECOLOGICAL INFORMATION**

### 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)
Iron	-	96h LC50: = 13.6 mg/L (Morone saxatilis)	-	-
Copper	72h EC50: 0.0426 - 0.0535 mg/L (Pseudokirchneriella subcapitata) 96h EC50: 0.031 - 0.054 mg/L (Pseudokirchneriella subcapitata)	96h LC50: = 0.052 mg/L (Oncorhynchus mykiss) 96h LC50: = 0.3 mg/L (Cyprinus carpio) 96h LC50: 0.0068 - 0.0156 mg/L (Pimephales promelas) 96h LC50: = 0.2 mg/L (Pimephales promelas) 96h LC50: = 0.8 mg/L (Cyprinus carpio) 96h LC50: = 0.112 mg/L (Poecilia reticulata) 96h LC50: = 1.25 mg/L (Lepomis macrochirus) 96h LC50: < 0.3 mg/L (Pimephales	-	48h EC50: = 0.03 mg/L

		promelas)		
Nickel	96h EC50: 0.174 - 0.311 mg/L (Pseudokirchneriella subcapitata) 72h EC50: = 0.18 mg/L (Pseudokirchneriella subcapitata)	(Cyprinus carpio) 96h LC50: = 10.4 mg/L	-	48h EC50: = 1 mg/L 48h EC50: > 100 mg/L
Manganese	-	96h LC50: > 3.6 mg/L (Oncorhynchus mykiss)	-	-
Carbon black	-	-	-	24h EC50: > 5600 mg/L
Silver	-	96h LC50: = 0.0062 mg/L (Oncorhynchus mykiss) 96h LC50: 0.00155 - 0.00293 mg/L (Pimephales promelas) 96h LC50: = 0.064 mg/L (Lepomis macrochirus)	-	48h EC50: = 0.00024 mg/L
Persistence and Degradability No information		on available.		
Bioaccumulation There is no d		lata for this product.		
Mobility No information		on available.		
Other adverse effects No information		on available.		
	13. DISPOSAL CONSIDERATIONS			
Waste treatment method	ds_			

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.
US EPA Waste Number	D011

### California Waste Codes

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

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Chemical name	California Hazardous Waste
Copper 7440-50-8	Toxic
Aluminum 7429-90-5	Ignitable powder
Nickel 7440-02-0	Toxic powder Ignitable powder
Manganese 7439-96-5	Ignitable powder
Lithium Cobalt Oxide (CoLiO2) 12190-79-3	Toxic
Silver 7440-22-4	Toxic

	14. TRANSPORT INFORMATION
Note:	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 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"
DOT Proper Shipping Name Hazard Class Emergency Response Guide Number	NOT REGULATED NON-REGULATED N/A 147
TDG	Not regulated
MEX	Not regulated
ICAO	Not regulated
IATA Proper Shipping Name Hazard Class ERG Code	Not regulated NON REGULATED N/A 9F
IMDG/IMO Hazard Class EmS-No.	Not regulated N/A F-A, S-I
<u>RID</u>	Not regulated
ADR Tunnel restriction code	Not regulated (E)
ADN	Not regulated

### **15. REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation specific for the substance or mixture

**International Regulations** 

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

### International Inventories

TSCA

Contact supplier for inventory compliance status.

DSL/NDSL EINECS/ELINCS	Contact supplier for inventory compliance status. Contact supplier for inventory compliance status.
ENCS	Contact supplier for inventory compliance status.
KECL	Contact supplier for inventory compliance status.
PICCS	Contact supplier for inventory compliance status.
AICS	Contact supplier for inventory compliance status.

#### Legend

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

### 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 %
Copper - 7440-50-8	7440-50-8	9.83	1.0
Lithium nickel oxide (LiNiO2) - 12031-65-1	12031-65-1	4.7	0.1
Aluminum - 7429-90-5	7429-90-5	4.15	1.0
Nickel - 7440-02-0	7440-02-0	3.65	0.1
Lithium manganese oxide (LiMn2O4) - 12057-17-9	12057-17-9	2.82	1.0
Manganese - 7439-96-5	7439-96-5	2.45	1.0
Lithium Cobalt Oxide (CoLiO2) - 12190-79-3	12190-79-3	1.88	0.1
Silver - 7440-22-4	7440-22-4	0.14	1.0

### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

### 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		Х	Х	
Lithium nickel oxide (LiNiO2) 12031-65-1		Х		
Nickel 7440-02-0		Х	Х	
Silver 7440-22-4		Х	Х	

### **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	RQ



		Substances RQs	
Copper	5000 lb		RQ 5000 lb final RQ
7440-50-8			RQ 2270 kg final RQ
Nickel	100 lb		RQ 100 lb final RQ
7440-02-0			RQ 45.4 kg final RQ
Silver	1000 lb		RQ 1000 lb final RQ
7440-22-4			RQ 454 kg final RQ

### **US State Regulations**

<u>California Proposition 65</u> This product contains the following Proposition 65 chemicals.

Chemical name	California Proposition 65
Lithium nickel oxide (LiNiO2) - 12031-65-1	carcinogen, 5/7/2004
Nickel - 7440-02-0	carcinogen, 10/1/1989 (metallic)
Carbon black - 1333-86-4	Carcinogen
Lithium carbonate - 554-13-2	Developmental
Titanium dioxide - 13463-67-7	Carcinogen

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

This product may contain substances regulated by state right-to-know regulations.

Chemical name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Copper 7440-50-8	Х	X	Х	Х	Х
Lithium nickel oxide (LiNiO2) 12031-65-1	Х		Х	Х	Х
Aluminum 7429-90-5	Х	X	Х	Х	
Nickel 7440-02-0	Х	X	Х	Х	Х
Lithium manganese oxide (LiMn2O4) 12057-17-9	Х		Х	X	Х
Manganese 7439-96-5	Х	X	Х	Х	Х
Lithium Cobalt Oxide (CoLiO2) 12190-79-3	Х		Х	Х	Х
PVC (Chloroethylene, polymer) 9002-86-2	Х				
Phosphate(1-), hexafluoro-, lithium 21324-40-3	Х				
Carbon black 1333-86-4	Х	Х	Х		Х
Silver 7440-22-4	Х	Х	Х	Х	

16. OTHER INFORMATION				
<u>NFPA</u>	Health hazards 1	Flammability 0	Instability 0	Physical and Chemical
HMIS	Health hazards 0	Flammability 0	Physical hazards 0	Properties - Personal Protection X



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### Disclaimer

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End of Safety Data Sheet

