# SAFETY DATA SHEET

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NGHS / English



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## 1. IDENTIFICATION

Product identifier

Product Name Voyager 12 Volt Lithium-Ion Replacement Battery Pack

Other means of identification

Product Code(s) 1543304

Recommended use of the chemical and restrictions on use

Recommended Use Lithium Ion Battery

Restrictions on use No information available

Details of the supplier of the safety data sheet

**Supplier Identification** Richpower Industries, Inc.

Address 736 Hampton Rd. Williamston

SC 29697

29697 US

**Telephone** Phone:864-226-1889

Fax:864-226-1890

E-mail tperry@richpowerinc.com

Emergency telephone number

Company Emergency Phone 864-

Number

864-915-4231

## 2. HAZARDS IDENTIFICATION

### Classification

Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 4
Skin corrosion/irritation	Category 2



Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1
Carcinogenicity	Category 1B
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 No data available

#### GHS Label elements, including precautionary statements

#### **Danger**

#### **Hazard statements**

Harmful if swallowed
Harmful in contact with skin
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

Call a POISON CENTER or doctor if you feel unwell

Take off contaminated clothing and wash it before reuse

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

#### Ingestion

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

Rinse mouth

#### **Precautionary Statements - Storage**

Store locked up



Page 2/13

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

66.3 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

92.3 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

94 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

94 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

94 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Substance**

Not applicable.

#### Mixture

Chemical name	CAS No.	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Lithium manganese nickel oxide	12031-75-3	36.6	-	-
Graphite	7782-42-5	16.2	-	-
Iron	7439-89-6	16	-	-
Copper	7440-50-8	8.2	-	-
Aluminum	7429-90-5	4.2	-	-
Ethylene carbonate	96-49-1	3.3	-	-
Phosphate(1-), hexafluoro-, lithium	21324-40-3	1.7	-	-
Carbon black	1333-86-4	0.7	-	-
Nickel	7440-02-0	0.3	-	-

## 4. FIRST AID MEASURES

#### Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get

medical advice/attention. First aid is upon rupture of sealed battery. In case of rupture:

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. Wash off immediately with soap and plenty of water for

at least 15 minutes. If symptoms persist, call a physician.

**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.



Inhalation

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination. Wear personal protective clothing

(see section 8). Avoid contact with skin, eyes or clothing.

Most important symptoms and effects, both acute and delayed

**Symptoms** Itching. 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

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 NONE. Sensitivity to Static Discharge NONE.

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

### 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

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	03	SHA PEL		NIOSH ID	)LH
Lithium manganese nickel o	xide -		-			IDLH: 10 mg	/m³ Ni
12031-75-3						A: 0.015 mg/	
						Nickel carbo	•
Graphite	TWA: 2 mg/m <sup>3</sup> i			mg/m³ total dust		IDLH: 1250 i	
7782-42-5	particulate matte			ynthetic	TWA:	: 2.5 mg/m <sup>3</sup>	respirable
	except graphit	e fibers		g/m³ respirable		dust	
				on synthetic			
				TWA: 2.5 mg/m <sup>3</sup>			
				le dust natural			
				VA: 10 mg/m³ total			
				synthetic			
				TWA: 5 mg/m <sup>3</sup>			
				raction synthetic			
				mppcf natural			
Copper	TWA: 0.2 mg/n	n³ fume		1 mg/m³ fume	IDLH:	: 100 mg/m <sup>3</sup>	
7440-50-8				m³ dust and mist		and mis	
				WA: 0.1 mg/m <sup>3</sup> Cu		1 mg/m³ du	
			dust, fume, mist			/A: 0.1 mg/m	
Aluminum	TWA: 1 mg/m <sup>3</sup>			mg/m³ total dust		: 10 mg/m <sup>3</sup>	
7429-90-5	particulate r	natter			I WA: 5	o mg/m³ res	pirable dust
				fraction			
			(vacated) IV	VA: 15 mg/m³ total			
			() (= =================================	dust			
				TWA: 5 mg/m <sup>3</sup>			
Dhaanhata/4 ) hayafiyara	TIMA: 0.5	/ 3 <b>-</b>		able fraction 2.5 mg/m³ F		IDI II. 050	a./ma3
Phosphate(1-), hexafluoro	o-, TWA: 2.5 mg	g/mº F		2.5 mg/m <sup>3</sup> F TWA: 2.5 mg/m <sup>3</sup>	'	IDLH: 250 m	g/m³ F
21324-40-3			(vacateu)	TWA. 2.5 mg/m			
Carbon black	TWA: 3 mg/m <sup>3</sup>	inhalahla	T\// \	· 2.5 mg/m3		IDLH: 1750 i	ma/m³
1333-86-4	particulate r		TWA: 3.5 mg/m <sup>3</sup> (vacated) TWA: 3.5 mg/m <sup>3</sup>			TWA: 3.5 m	
1333-00-4	particulate	natter	(vacated) TVVA. 5.5 mg/m		Τ\Λ/Λ·	0.1 mg/m <sup>3</sup> C	
						oresence of F	
						natic hydroca	
Nickel	TWA: 1.5 m	na/m³	TWA: 1 mg/m <sup>3</sup>		a.om	IDLH: 10 m	
7440-02-0	1 777. 1.511	9,111		) TWA: 1 mg/m <sup>3</sup>	-	TWA: 0.015	•
Chemical name	Alberta	British C	Columbia	Ontario TWAE			ebec
Graphite	TWA: 2 mg/m <sup>3</sup>		2 mg/m <sup>3</sup>	TWA: 2 mg/m			2 mg/m <sup>3</sup>



7782-42-5				
Copper 7440-50-8	TWA: 0.2 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup> TWA: 0.2 mg/m <sup>3</sup>	TWA: 0.2 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup>	TWA: 0.2 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup>
Aluminum 7429-90-5	TWA: 10 mg/m <sup>3</sup>	TWA: 1.0 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>
Phosphate(1-), hexafluoro-, lithium 21324-40-3	TWA: 2.5 mg/m <sup>3</sup>			
Carbon black 1333-86-4	TWA: 3.5 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup>	TWA: 3.5 mg/m <sup>3</sup>
Nickel 7440-02-0	TWA: 1.5 mg/m <sup>3</sup>	TWA: 0.05 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>

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.

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. Avoid contact with

skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling

the product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Solid Appearance Black

Odor No data available

ColorNo information availableOdor ThresholdNo information available

<u>Property</u> <u>Values</u> <u>Remarks Method</u>

pН No data available None known Melting / freezing point No data available None known None known No data available Boiling point / boiling range No data available None known Flash Point No data available None known **Evaporation Rate** Flammability (solid, gas) No data available None known Flammability Limit in Air None known

Upper flammability limit No data available



Page 6/13

Lower flammability limit No data available

Vapor pressureNo data availableNone knownVapor densityNo data availableNone knownRelative densityNo data availableNone known

Water Solubility Insoluble in water

Solubility(ies) No data available None known

Partition coefficient: n-octanol/waterNo available

Autoignition temperatureNo data availableNone knownDecomposition temperatureNo data availableNone knownKinematic viscosityNo data availableNone knownDynamic viscosityNo data availableNone known

Other Information

**Explosive properties** No information available **Oxidizing properties** No information available **Softening Point** No information available **Molecular Weight** No information available VOC Content (%) No information available **Liquid Density** No information available **Bulk Density** No information available **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.



Page 7/13

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).

Symptoms related to the physical, chemical and toxicological characteristics

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)
 929.80 mg/kg

 ATEmix (dermal)
 1,358.80 mg/kg

**Unknown acute toxicity** 94 % of the mixture consists of ingredient(s) of unknown toxicity

66.3 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

92.3 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

94 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas) 94 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

94 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Graphite	Graphite		> 2000 mg/m³ (Rat) 4 h
Iron	= 30 g/kg (Rat)	-	-
Ethylene carbonate	= 10 g/kg (Rat)	> 3 g/kg (Rabbit)	> 730 mg/m³ (Rat) 8 h
Carbon black	> 15400 mg/kg (Rat)	> 3 g/kg (Rabbit)	-
Nickel	> 9000 mg/kg (Rat)	-	> 10.2 mg/L (Rat) 1 h

#### 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
Lithium manganese nickel oxide 12031-75-3	-	Group 1	Known	X
Carbon black 1333-86-4	A3	Group 2B	-	Х
Nickel 7440-02-0	-	Group 2B	Reasonably Anticipated	Х

Legend

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

A3 - Animal Carcinogen



Page 8 / 13

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to 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	Daphnia Magna (Water
			Microorganisms	Flea)
Graphite	-	96h LC50: > 100 mg/L	-	-
		(Danio rerio)		
Iron	-	96h LC50: = 13.6 mg/L	-	-
		(Morone saxatilis)		
Copper	96h EC50: 0.031 - 0.054	96h LC50: = 0.052 mg/L	-	48h EC50: = 0.03 mg/L
	mg/L	(Oncorhynchus mykiss)		(Daphnia magna)
	(Pseudokirchneriella	96h LC50: = 0.3 mg/L		
	subcapitata) 72h EC50:	(Cyprinus carpio) 96h		
	0.0426 - 0.0535 mg/L	LC50: = 1.25 mg/L		
	(Pseudokirchneriella	(Lepomis macrochirus)		
	subcapitata)	96h LC50: = 0.2 mg/L		
		(Pimephales promelas)		
		96h LC50: = 0.8 mg/L		
		(Cyprinus carpio) 96h		
		LC50: 0.0068 - 0.0156		
		mg/L (Pimephales		
		promelas) 96h LC50: =		
		0.112 mg/L (Poecilia		
		reticulata) 96h LC50: <		
		0.3 mg/L (Pimephales		
		promelas)		
Ethylene carbonate	-	96h LC50: > 100 mg/L	-	-
		(Oncorhynchus mykiss)		
Carbon black	-	-	-	24h EC50: > 5600 mg/L
				(Daphnia magna)
Nickel	72h EC50: = 0.18 mg/L	96h LC50: = 10.4 mg/L	-	48h EC50: > 100 mg/L
	(Pseudokirchneriella	(Cyprinus carpio) 96h		(Daphnia magna) 48h
	subcapitata) 96h EC50:	LC50: = 1.3 mg/L		EC50: = 1 mg/L (Daphnia
	0.174 - 0.311 mg/L	(Cyprinus carpio) 96h		magna)
	(Pseudokirchneriella	LC50: > 100 mg/L		
	subcapitata)	(Brachydanio rerio)		

Persistence and Degradability No information available.



Page 9/13

Bioaccumulation There is no data for this product.

**Mobility** No information available.

Other adverse effects No information available.

#### 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

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.

California 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
Copper	Toxic
7440-50-8	
Aluminum	Ignitable powder
7429-90-5	
Nickel	Toxic powder
7440-02-0	Ignitable powder

## 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 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 "special provision A45 of IATA-DGR" or "special provision 188 of IMO-IMDG Code"

**DOT**Proper Shipping Name
NOT REGULATED
NON REGULATED

Proper Shipping Name NON REGINATION N/A

Emergency Response Guide 147

Number

Not regulated

MEX Not regulated



TDG

ICAO Not regulated

<u>IATA</u> Not regulated

Proper Shipping Name NON REGULATED

Hazard Class N/A ERG Code 9F

IMDG/IMO Not regulated

**Hazard Class** N/A **EmS-No.** F-A, S-I

RID Not regulated

ADR Not regulated

Tunnel restriction code (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

DSL/NDSL

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 %
Lithium manganese nickel oxide - 12031-75-3	12031-75-3	36.6	0.1
Copper - 7440-50-8	7440-50-8	8.2	1.0



Aluminum - 7429-90-5	7429-90-5	4.2	1.0
Nickel - 7440-02-0	7440-02-0	0.3	0.1

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.

<u>CWA (Clean Water Act)</u>
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
Lithium manganese nickel oxide 12031-75-3		X		
Copper 7440-50-8		X	Х	
Nickel 7440-02-0		X	Χ	

## **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
Nickel 7440-02-0	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ

## **US State Regulations**

## **California Proposition 65**

This product contains the following Proposition 65 chemicals.

Chemical name	California Proposition 65		
Lithium manganese nickel oxide - 12031-75-3	carcinogen, 5/7/2004		
Carbon black - 1333-86-4	Carcinogen		
Nickel - 7440-02-0	carcinogen, 10/1/1989 (metallic)		

#### 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
Lithium manganese nickel	X		X	X	X
oxide					
12031-75-3					
Graphite	X	X	X		
7782-42-5					
Copper	X	X	X	Х	X
7440-50-8					
Aluminum	X	X	X	X	
7429-90-5					
Ethylene carbonate		X	X		



96-49-1					
Phosphate(1-), hexafluoro-, lithium 21324-40-3	X				
Carbon black 1333-86-4	X	X	X		X
Nickel 7440-02-0	Х	X	X	X	X

## **16. OTHER INFORMATION**

NFPA Health hazards 1 Flammability 0 Instability 0 Physical and Chemical

Properties -

HMIS Health hazards 0 Flammability 0 Physical hazards 0 Personal Protection X

Prepared By Product Stewardship

23 British American Blvd. Latham, NY 12110 1-800-572-6501

Issuing Date 07-Apr-2020

Revision Date 25-Sep-2019

Revision Note No information available

#### **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** 

