SAFETY DATA SHEET

Issuing Date 18-Aug-2016 Revision Date 04-Dec-2017 Revision Number 4



The supplier identified below generated this SDS using the UL SDS template. UL did not test, certify, or approve the substance described in this SDS, and all information in this SDS was provided by the supplier or was reproduced from publically available regulatory data sources. UL makes no representations or warranties regarding the completeness or accuracy of the information in this SDS and disclaims all liability in connection with the use of this information or the substance described in this SDS. The layout, appearance and format of this SDS is © 2014 UL LLC. All rights reserved.

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name WA3578 WORX 4.0 AH BATTERY

Other means of identification

Synonyms WA3578

Recommended use of the chemical and restrictions on use

Recommended Use LITHIUM ION BATTERIES

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Name Positec(Macao Commercial Offshore) Limited

Supplier Address 18 Dongwang Road, Suzhou Industrial Park

Suzhou Jiangsu 215123 CN

Supplier Phone Number Phone:(86) 512 65152888

Fax:(86) 512 65152885

Supplier Email email@positecgroup.com

Emergency telephone number

Company Emergency Phone

Number

(86) 512 67631888-6310

2. HAZARDS IDENTIFICATION

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.

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

GHS Label elements, including precautionary statements

Emergency Overview

Signal word Danger

Hazard Statements

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



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 No information available

Physical state Solid

Odor No information available

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

Wear protective gloves

Do not breathe dust/fume/gas/mist/vapors/spray

Do not eat, drink or smoke when using this product

Wear eye/face protection

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 soap and water Take off contaminated clothing and wash before reuse If skin irritation or rash occurs: Get medical advice/attention

Precautionary Statements - Storage

Store locked up



Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Unknown Toxicity

45.25 % of the mixture consists of ingredient(s) of unknown toxicity

Other information

Very toxic to aquatic life with long lasting effects

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

Interactions with Other Chemicals

Use of alcoholic beverages may enhance toxic effects.

3. COMPOSITION/INFORMATION ON INGREDIENTS

.

Chemical name	CAS No	Weight-%	Trade Secret
Copper	7440-50-8	7 - 13	*
Iron	7439-89-6	7 - 13	*
Lithium nickel oxide (LiNiO2)	12031-65-1	1 - 5	*
Aluminum	7429-90-5	1 - 5	*
Lithium manganese oxide (LiMn2O4)	12057-17-9	1 - 5	*
Manganese	7439-96-5	1 - 5	*
Lithium Cobalt Oxide (CoLiO2)	12190-79-3	1 - 5	*
Phosphate(1-), hexafluoro-, lithium	21324-40-3	1 - 5	*
Carbon black	1333-86-4	0.1 - 1	*
Beryllium-copper alloy	11133-98-5	0.1 - 1	*
Silver	7440-22-4	0.1 - 1	*

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURES

First aid measures

General Advice	_First aid is upon rupture of sealed battery.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.
Skin contact	Wash off immediately with soap and plenty of water for at least 15 minutes. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician. Remove and isolate contaminated clothing and shoes.
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur. If not breathing, give artificial respiration. If breathing is difficult, (trained personnel should) give oxygen.
Ingestion	Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.
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). Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

Most important symptoms and effects, both acute and delayed

Most Important Symptoms and

Effects

Burning sensation. Itching. Rashes. Hives. Coughing and/ or wheezing.

Indication of any immediate medical attention and special treatment needed

Notes to Physician 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. Dry chemical, CO2, water spray or regular foam. Move containers from fire area if you can do it without risk.

Large Fire Move containers from fire area if you can do it without risk.

Unsuitable extinguishing media

CAUTION: Use of water spray when fighting fire may be inefficient.

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 No.

Sensitivity to Static Discharge No.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Move containers from fire area if you can do it without risk.



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.

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

Environmental precautions

Environmental precautions 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

Handling In case of rupture: Handle in accordance with good industrial hygiene and safety practice.

Avoid contact with skin, eyes or clothing. 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 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 agents. Strong bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines The following ingredients are the only ingredients of the product above the cut-off level (or

level that contributes to the hazard classification of the mixture) which have an exposure

limit applicable in the region for which this safety data sheet is intended or other

recommended limit. At this time, the other relevant constituents have no known exposure

limits from the sources listed here

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Copper	TWA: 0.2 mg/m ₃ fume TWA: 1 mg/m ₃	TWA: 0.1 mg/m3 fume	IDLH: 100 mg/m3 dust, fume and mist
7440-50-8	Cu dust and mist	TWA: 1 mg/m₃ dust and mist	IDLH: 100 mg/m₃ Cu dust and mist
		(vacated) TWA: 0.1 mg/m ₃ Cu dust,	TWA: 1 mg/m₃ dust and mist
		fume, mist	TWA: 0.1 mg/m3 fume TWA: 1 mg/m3
			Cu dust and mist
Lithium nickel oxide	TWA: 0.2 mg/m3 Ni inhalable	TWA: 1 mg/m₃ Ni	IDLH: 10 mg/m₃ Ni
(LiNiO2)	particulate matter	(vacated) TWA: 1 mg/m₃ Ni	TWA: 0.015 mg/m3 except Nickel
12031-65-1			carbonyl Ni



	T-10/0 4 / 1 1 / 1 / 1	T10/0 45 / / / / /	T10/0 40 / 1 1 1 1
Aluminum 7429-90-5	TWA: 1 mg/m₃ respirable particulate matter	TWA: 15 mg/m ₃ total dust TWA: 5 mg/m ₃ respirable fraction (vacated) TWA: 15 mg/m ₃ total dust (vacated) TWA: 5 mg/m ³ respirable fraction (vacated) TWA: 5 mg/m ³ Al Aluminum	TWA: 10 mg/m3 total dust TWA: 5 mg/m3 respirable dust TWA: 5 mg/m3 Al
Lithium manganese oxide (LiMn2O4) 12057-17-9	TWA: 0.2 mg/m ₃ Mn	(vacated) Ceiling: 5 mg/m3 Ceiling: 5 mg/m3 Mn	IDLH: 500 mg/m₃ Mn TWA: 1 mg/m₃ Mn STEL: 3 mg/m₃ Mn
Manganese 7439-96-5	TWA: 0.02 mg/m ₃ respirable particulate matter TWA: 0.1 mg/m ₃ inhalable particulate matter TWA: 0.02 mg/m ₃ Mn respirable particulate matter TWA: 0.1 mg/m ₃ Mn inhalable particulate matter	(vacated) TWA: 1 mg/m ₃ fume (vacated) STEL: 3 mg/m ₃ fume (vacated) Ceiling: 5 mg/m ₃ Ceiling: 5 mg/m ₃ fume Ceiling: 5 mg/m ₃ Mn	IDLH: 500 mg/m3 IDLH: 500 mg/m3 Mn TWA: 1 mg/m3 fume TWA: 1 mg/m3 Mn STEL: 3 mg/m3 STEL: 3 mg/m3 Mn
Lithium Cobalt Oxide (CoLiO2) 12190-79-3	TWA: 0.02 mg/m ₃	-	
Phosphate(1-), hexafluoro-, lithium 21324-40-3	TWA: 2.5 mg/m₃ F	TWA: 2.5 mg/m₃ F (vacated) TWA: 2.5 mg/m₃	IDLH: 250 mg/m₃ F
Carbon black 1333-86-4	TWA: 3 mg/m³ inhalable particulate matter	TWA: 3.5 mg/m₃ (vacated) TWA: 3.5 mg/m₃	IDLH: 1750 mg/m ₃ TWA: 3.5 mg/m ₃ TWA: 0.1 mg/m ³ Carbon black in presence of Polycyclic aromatic hydrocarbons PAH
Silver 7440-22-4	TWA: 0.1 mg/m ₃ dust and fume	TWA: 0.01 mg/m ₃ (vacated) TWA: 0.01 mg/m ₃	IDLH: 10 mg/m ₃ 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-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992) See section 15 for national exposure control parameters

Appropriate engineering controls

Engineering Measures Showers

Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and body protection Wear protective gloves and protective clothing. Long sleeved clothing. Impervious gloves.

exceeded or irritation is experienced, ventilation and evacuation may be required.

Hygiene Measures 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

Physical and Chemical Properties

Physical state Solid



Page 6/14

Appearance	No information available	Odor	No information available
Color	No information available	Odor Threshold	No information available
Property	Values	Remarks Method	
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	
Flammability Limit in Air			
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	
Specific Gravity	No data available	None known	
Water Solubility	Insoluble in water	None known	
Solubility in other solvents	No data available	None known	
Partition coefficient: n-octanol/wa	iterNo data available	None known	
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	
Explosive properties	No data available		
Oxidizing properties	No data available		
Other Information			
Ooffening Brint	No dete sustibile		
Softening Point	No data available		
VOC Content (%)	No data available		
Particle Size	No data available		
Particle Size Distribution			



10. 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 does not occur.

Conditions to avoid

None known based on information supplied.

Incompatible materials

Strong acids. Strong oxidizing agents. Strong bases.

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). May cause redness, itching, and pain.

Skin contact Specific test data for the substance or mixture is not available. Causes skin irritation. (based

on components). Prolonged contact may cause redness and irritation.

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.

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Iron 7439-89-6	= 30 g/kg (Rat)	-	-
Manganese 7439-96-5	= 9 g/kg (Rat)	-	-
Carbon black 1333-86-4	> 15400 mg/kg (Rat)	> 3 g/kg (Rabbit)	-
Silver	> 2000 mg/kg (Rat)	-	-



17/1/0-22-/		
17440-22-4		

Information on toxicological effects

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

Hives.

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

Sensitization May cause sensitization by skin contact. May cause sensitization in susceptible persons.

Mutagenic Effects No information available.

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

Chemical name	ACGIH	IARC	NTP	OSHA
Lithium nickel oxide (LiNiO2)	A1	Group 1	Known	X
12031-65-1				
Lithium Cobalt Oxide	A3	Group 2B	Reasonably Anticipated	X
(CoLiO2)				
12190-79-3				
Carbon black	A3	Group 2B		X
1333-86-4				
Beryllium-copper alloy		Group 1	Known	X
11133-98-5				

ACGIH (American Conference of Governmental Industrial Hygienists)

A1 - Known Human Carcinogen

A3 - Animal Carcinogen

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. 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 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). Central Vascular System (CVS). Kidney. Liver. Lungs. Nasal cavities. Digestive

System.

Aspiration Hazard No information available.

Numerical measures of toxicity Product Information

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



ATEmix (oral) 15,311.00 mg/kg **ATEmix (dermal)** 14,283.00 mg/kg (ATE)

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)
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 promelas) 96h LC50: = 1.25 mg/L (Lepomis macrochirus) 96h LC50: = 0.052 mg/L (Oncorhynchus mykiss) 96h LC50: = 0.2 mg/L (Pimephales promelas) 96h LC50: < 0.3 mg/L (Pimephales promelas) 96h LC50: = 0.112 mg/L (Poecilia reticulata) 96h LC50: = 0.3 mg/L (Cyprinus carpio) 96h LC50: = 0.8 mg/L (Cyprinus carpio)	o. oo. gumemo	48h EC50: = 0.03 mg/L
Iron 7439-89-6		96h LC50: = 13.6 mg/L (Morone saxatilis)		
Carbon black 1333-86-4				24h EC50: > 5600 mg/L
Silver 7440-22-4		96h LC50: = 0.064 mg/L (Lepomis macrochirus) 96h LC50: = 0.0062 mg/L (Oncorhynchus mykiss) 96h LC50: 0.00155 - 0.00293 mg/L (Pimephales promelas)		48h EC50: = 0.00024 mg/L

Persistence and Degradability

No information available.

Bioaccumulation

No information available

Other adverse effects

No information available.



13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal methods This material, as supplied, is a hazardous waste according to federal regulations (40 CFR

261).

Contaminated Packaging Dispose of contents/containers in accordance with local regulations.

US EPA Waste Number D011

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	
Manganese	Ignitable powder
7439-96-5	
Lithium Cobalt Oxide (CoLiO2)	Toxic
12190-79-3	
Silver	Toxic
7440-22-4	

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 NOT REGULATED

Proper Shipping Name
Hazard Class
N/A
Emergency Response Guide
NON-REGULATED
N/A
147

Number

TDG Not regulated

MEX Not regulated

ICAO Not regulated

<u>IATA</u> Not regulated





Proper Shipping Name NON REGULATED

Hazard Class N/A

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

International Inventories

TSCA Not determined DSL Not determined

IECSC -

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

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	7 - 13	1.0
Lithium nickel oxide (LiNiO2) - 12031-65-1	12031-65-1	1 - 5	0.1
Aluminum - 7429-90-5	7429-90-5	1 - 5	1.0
Lithium manganese oxide (LiMn2O4) - 12057-17-9	12057-17-9	1 - 5	1.0
Manganese - 7439-96-5	7439-96-5	1 - 5	1.0
Lithium Cobalt Oxide (CoLiO2) - 12190-79-3	12190-79-3	1 - 5	0.1
Silver - 7440-22-4	7440-22-4	0.1 - 1	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		X	X	
7440-50-8				
Lithium nickel oxide (LiNiO2)		X		
12031-65-1				
Silver		X	X	
7440-22-4				

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	RQ	
		RQs		
Copper	5000 lb		RQ 5000 lb final RQ	
7440-50-8			RQ 2270 kg final RQ	
Silver	1000 lb 1 lb		RQ 1000 lb final RQ	
7440-22-4			RQ 454 kg final RQ	

US State Regulations

 $\begin{tabular}{ll} {\bf California\ Proposition\ 65}\\ {\bf This\ product\ contains\ the\ following\ Proposition\ 65\ chemicals.} \end{tabular}$

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

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Copper 7440-50-8	Х	X	X	X	Χ
Lithium nickel oxide (LiNiO2) 12031-65-1	X		Х	Х	X
Aluminum 7429-90-5	Х	Х	Х	Х	
Lithium manganese oxide (LiMn2O4) 12057-17-9	Х		Х	Х	Х
Dimethyl carbonate 616-38-6	Х	Х	Х		
Manganese 7439-96-5	Х	Х	Х	Х	Х
Lithium Cobalt Oxide (CoLiO2) 12190-79-3	X		Х	Х	Х
Oxygen 7782-44-7	X	X	X		
Phosphate(1-), hexafluoro-, lithium 21324-40-3	X				
Tin 7440-31-5	X	Х	Х		
Carbon black 1333-86-4	X	X	X		Χ
Lithium carbonate 554-13-2	X	Х		Х	
Silver 7440-22-4	Х	Х	Х	Х	

International Regulations

Mexico

National occupational exposure limits

Chemical name	Carcinogen Status	Exposure Limits
Copper		Mexico: TWA= 1 mg/m ³
		Mexico: TWA= 0.2 mg/m ³
		Mexico: STEL= 2 mg/m ³
Aluminum		Mexico: TWA= 10 mg/m ³
Lithium manganese oxide (LiMn2O4)		Mexico: TWA 0.2 mg/m ³
Manganese		Mexico: TWA 0.2 mg/m ³
		Mexico: TWA 1 mg/m ³
		Mexico: STEL 3 mg/m ³



Carbon black	Mexico: TWA 3.5 mg/m ³ Mexico: STEL 7 mg/m ³
Silver	Mexico: TWA 0.1 mg/m ³

Mexico - Occupational Exposure Limits - Carcinogens

Canada

WHMIS Hazard Class

Non-controlled

16. OTHER INFORMATION

NFPA Health Hazards 1 Flammability 0 Instability 0 Physical and

Chemical Hazards - HMIS Health Hazards 0 Flammability 0 Physical Hazard 0 Personal Protection

Χ

Prepared By Product Stewardship

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

Issuing Date18-Aug-2016Revision Date04-Dec-2017

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

