Issuing Date 23-Aug-2016

SAFETY DATA SHEET

Revision Date 21-Nov-2016

Revision Number 6

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	Worx WA3575 20v 2.0Ah battery
Other means of identification	
Synonyms	None
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	วท	
May cause cancer		
Causes damage to organs throug	h prolonged or repeated exposure	
	n contains a chemical substance. Safety information nould not result in exposure to the chemical subs above hazards exist	
Appearance No information av	ailable Physical state Solid	Odor No information available
Precautionary Statements - Pre		

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

50.18 % of the mixture consists of ingredient(s) of unknown toxicity

Other information

May be harmful if swallowed 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
Nylon-6	25038-54-4	15 - 40	*
Iron	7439-89-6	7 - 13	*
Copper	7440-50-8	5 - 10	*
Lithium nickel oxide (LiNiO2)	12031-65-1	1 - 5	*
Aluminum	7429-90-5	1 - 5	*
Nickel	7440-02-0	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	*
PVC (Chloroethylene, polymer)	9002-86-2	1 - 5	*
Phosphate(1-), hexafluoro-, lithium	21324-40-3	1 - 5	*
Carbon black	1333-86-4	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.
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur.
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).
Most important symptoms and effe	cts, both acute and delayed
Most Important Symptoms and Effects	Burning sensation. Itching. Rashes. Hives. Coughing and/ or wheezing.
Indication of any immediate medica	I 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 a	appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media CAUTION: Use of water spray when fi	ghting fire may be inefficient.
Specific hazards arising from the cl Product is or contains a sensitizer. Ma	
<u>Explosion Data</u> Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	None.
Protective equipment and precaution As in any fire, wear self-contained bree protective gear.	ons for firefighters athing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full
	6. ACCIDENTAL RELEASE MEASURES
Personal precautions, protective eq	uipment 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	Prevent further leakage or spillage if safe to doso.
Methods and material for containme	ent and cleaning up
Methods for containment	Prevent further leakage or spillage if safe to doso.
Methods for cleaning up	Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

HandlingIn 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 incompatibilitiesExample in a dry, cool and well-ventilated place. Store locked up.
Keep out of the reach of children.StorageStrong acids. Strong oxidizing agents. Strong bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Copper 7440-50-8	TWA: 0.2 mg/m³fume TWA: 1 mg/m³ Cu dust and mist	TWA: 0.1 mg/m ³ fume TWA: 1 mg/m ³ dust and mist (vacated) TWA: 0.1 mg/m ³ Cu dust, fume, mist	IDLH: 100 mg/m ³ dust, fume and mist TWA: 1 mg/m ³ dust and mist TWA: 0.1 mg/m ³ fume
Lithium nickel oxide (LiNiO2) 12031-65-1	TWA: 0.2 mg/m³ Ni inhalable particulate matter	TWA: 1 mg/m³ Ni (vacated) TWA: 1 mg/m³ Ni	IDLH: 10 mg/m³ Ni TWA: 0.015 mg/m³ except Nickel carbonyl Ni
Aluminum 7429-90-5	TWA: 1 mg/m ³ 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/m ³ total dust TWA: 5 mg/m ³ respirable dust
Nickel 7440-02-0	TWA: 1.5 mg/m ³	TWA: 1 mg/m ³ (vacated) TWA: 1 mg/m ³	IDLH: 10 mg/m ³ TWA: 0.015 mg/m ³
Lithium manganese oxide (LiMn2O4) 12057-17-9	TWA: 0.2 mg/m³ Mn	(vacated) Ceiling: 5 mg/m ³ Ceiling: 5 mg/m ³ Mn	IDLH: 500 mg/m ³ Mn TWA: 1 mg/m ³ Mn STEL: 3 mg/m ³ 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 TWA: 1 mg/m³fume STEL: 3 mg/m³
Lithium Cobalt Oxide (CoLiO2) 12190-79-3	TWA: 0.02 mg/m ³	_	
PVC (Chloroethylene, polymer) 9002-86-2	TWA: 1 mg/m ³ respirable particulate matter	_	
Phosphate(1-), hexafluoro-, lithium 21324-40-3	TWA: 2.5 mg/m³ F	TWA: 2.5 mg/m ³ F TWA: 2.5 mg/m ³ dust (vacated) TWA: 2.5 mg/m ³	
Carbon black 1333-86-4	TWA: 3 mg/m³ inhalable particulate matter	TWA: 3.5 mg/m ³ (vacated) TWA: 3.5 mg/m ³	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	TWA: 0.1 mg/m ³ dust and fume	TWA: 0.01 mg/m ³	IDLH: 10 mg/m ³ dust
7440-22-4	-	(vacated) TWA: 0.01 mg/m ³	TWA: 0.01 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 stat

Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protectionWear safety glasses with side shields (or goggles).Skin and body protectionWear protective gloves and protective clothing. Long sleeved clothing. Impervious gloves.Respiratory protectionIf exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved
respiratory protection should be worn. Positive-pressure supplied air respirators may be
required for high airborne contaminant concentrations. Respiratory protection must be
provided in accordance with current local regulations.Hygiene MeasuresHandle 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 Appearance Color	Solid No information available No information available	Odor Odor Threshold	No information available No information available
<u>Property</u>	Values_	Remarks Method	
рН	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	No data available	None known	
Solubility in other solvents	No data available	None known	
Partition coefficient: n-octanol/wate	erNo data available	None known	
Autoignition temperature	No data available	None known	
Decomposition temperature	No data available	None known	



Kinematic viscosity Dynamic viscosity Explosive properties Oxidizing properties

Other Information

Softening Point VOC Content (%) Particle Size Particle Size Distribution No data available No data available No data available No data available

No data available No data available No data available None known None known

10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

None known based on information supplied.

Incompatible materials

Strong acids. Strong oxidizing agents. Strong bases.

Hazardous Decomposition Products

None known based on information supplied.

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	= 984 mg/kg(Rat)	-	-
Nickel 7440-02-0	> 9000 mg/kg (Rat)	-	-
Manganese 7439-96-5	= 9 g/kg (Rat)	-	-
Carbon black 1333-86-4	> 15400 mg/kg (Rat)	> 3 g/kg (Rabbit)	-
Silver 7440-22-4	> 2000 mg/kg (Rat)	-	-

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.
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
Nylon-6		Group 3		
25038-54-4				
Lithium nickel oxide (LiNiO2)	A1	Group 1	Known	Х
12031-65-1				
Nickel		Group 2B	Reasonably Anticipated	Х
7440-02-0				
Lithium Cobalt Oxide	A3	Group 2B		Х
(CoLiO2)				
12190-79-3				
PVC (Chloroethylene,		Group 3		
polymer)				
9002-86-2				
Carbon black	A3	Group 2B		Х
1333-86-4				

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

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. 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. Contains a known or suspected carcinogen.
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) 3,149.00 mg/kg ATEmix (dermal) 13,968.00 mg/kg (ATE)



12. ECOLOGICAL INFORMATION

<u>Ecotoxicity</u> 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		
7439-89-6		(Morone saxatilis)		
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		48h EC50: = 0.03 mg/L
	701 5050 0.40	(Pimephales promelas) 96h LC50: = 0.112 mg/L (Poecilia reticulata) 96h LC50: = 0.3 mg/L (Cyprinus carpio) 96h LC50: = 0.8		
Nickel 7440-02-0	72h EC50: = 0.18 mg/L (Pseudokirchneriella subcapitata) 96h EC50: 0.174 - 0.311 mg/L (Pseudokirchneriella	96h LC50: > 100 mg/L (Brachydanio rerio) 96h LC50: = 1.3 mg/L (Cyprinus carpio) 96h LC50: = 10.4 mg/L (Cyprinus carpio)		48h EC50: > 100 mg/L 48h EC50: = 1 mg/L
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 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
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	Тохіс

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 Transport Association Dangerous Goods Regulations. 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"
<u>DOT</u> 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

ADN	Not regulated
ADR	Not regulated
RID	Not regulated
IMDG/IMO Hazard Class EmS-No.	Not regulated N/A F-A, S-I
IATA Proper Shipping Name Hazard Class	Not regulated NON REGULATED N/A

15. REGULATORY INFORMATION

International Inventories

TSCA	Not determined
DSL	Not determined

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	5 - 10	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
Nickel - 7440-02-0	7440-02-0	1 - 5	0.1
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			
Acute Health Hazard	No		
Chronic Health Hazard	No		
Fire Hazard	No		
Sudden release of pressure hazard	No		
Reactive Hazard	No		

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Copper 7440-50-8		Х	Х	
Lithium nickel oxide (LiNiO2) 12031-65-		X		
Nickel 7440-02-0		X	Х	
Silver		Х	Х	



7440-22-4		

<u>CERCLA</u> 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)

Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ
100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ
1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ
	5000 lb 100 lb	RQs 5000 lb 100 lb

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical name	California Proposition 65
Lithium nickel oxide (LiNiO2) - 12031-65-1	Carcinogen
Nickel - 7440-02-0	Carcinogen
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

Chemical name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Copper 7440-50-8	Х	Х	Х	Х	Х
Lithium nickel oxide (LiNiO2) 12031-65-1	Х		Х	Х	Х
Aluminum 7429-90-5	Х	Х	Х	Х	
Nickel 7440-02-0	Х	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	Х		Х	Х	Х
Oxygen 7782-44-7	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
Lithium carbonate 554-13-2	Х	Х		Х	
Tin 7440-31-5	Х	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
Nickel		Mexico: TWA 1 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
Chronic Hazard St	ar Legend * = Chronic H	lealth Hazard		
Prepared By	23 British	Stewardship 1 American Blvd. NY 12110 2-6501		
Issuing Date Revision Date Revision Note	23-Aug-2 21-Nov-2 No inforn			

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

