

## Safety Data Sheets (SDSs)

Client	Dongguan Sunly Battery Technology Co., Ltd.	
Add. of Client	Building 30th, Xin Tai Yang Industrial City, No.8 Xinyang Road, Lin Cun Community, Tangxia Town, Dongguan City, Guangdong Province, China	
Description	Rechargeable Li-ion Cell	
Model /Type	1140	
Manufacturer	Dongguan Sunly Battery Technology Co., Ltd.	
Add. of Manufacturer	Building 30th, Xin Tai Yang Industrial City, No.8 Xinyang Road, Lin Cun Community, Tangxia Town, Dongguan City, Guangdong Province, China	
Nominal Voltage	3.7V, 38mAh, 0.14Wh	
Date of Receipt	2023-01-01	
Laboratory	GUANGDONG UTL CO., LTD.	
Address	Lianding Testing Building, No.18 Center Road of Yayuan Industrial Zone, Nancheng District, Dongguan, Guangdong, China.	
Approved Signatory	Maggie.Gao	
Inspected by	Ailis.Ma	
Censored by	Lahm Peng	

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

### Product Identifier

Product name: Rechargeable Li-ion Cell

Model: 1140

### Other means of identification

Synonyms: none **Recommended use of the chemical and restrictions on use**

Recommended Use: Used in portable electronic equipments;

Uses advised against:

- a) Do not dismantle, open or shred secondary cells or batteries.
- b) Keep batteries out of the reach of children  
Battery usage by children should be supervised. Especially keep small batteries out of reach of small children.
- c) Seek medical advice immediately if a cell or a battery has been swallowed.
- d) Do not expose cells or batteries to heat or fire. Avoid storage in direct sunlight.
- e) Do not short-circuit a cell or a battery. Do not store cells or batteries haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by other metal objects.
- f) Do not remove a cell or battery from its original packaging until required for use.
- g) Do not subject cells or batteries to mechanical shock.
- h) In the event of a cell leaking, do not allow the liquid to come in contact with the skin or eyes. If contact has been made, wash the affected area with copious amounts of water and seek medical advice.
- i) Do not use any charger other than that specifically provided for use with the equipment.
- j) Observe the plus (+) and minus (-) marks on the cell, battery and equipment and ensure correct use.
- k) Do not use any cell or battery which is not designed for use with the equipment.
- l) Do not mix cells of different manufacture, capacity, size or type within a device.
- m) Always purchase the battery recommended by the device manufacturer for the equipment.
- n) Keep cells and batteries clean and dry.
- o) Wipe the cell or battery terminals with a clean dry cloth if they become dirty.
- p) Secondary cells and batteries need to be charged before use. Always use the correct charger and refer to the manufacturer's instructions or equipment manual for proper charging instructions.
- q) Do not leave a battery on prolonged charge when not in use.
- r) After extended periods of storage, it may be necessary to charge and discharge the cells or batteries several times to obtain maximum performance.
- s) Retain the original product literature for future reference.
- t) Use the cell or battery only in the application for which it was intended.
- u) When possible, remove the battery from the equipment when not in use.
- v) Dispose of properly.

### **Details of the supplier of the safety data sheet:**

Supplier Name: Dongguan Sunly Battery Technology Co., Ltd.

Address: Building 30th, Xin Tai Yang Industrial City, No.8 Xinyang Road, Lin Cun Community, Tangxia Town, Dongguan City, Guangdong Province, China

Telephone number of the supplier: +86-769-87285025

Fax: N/A

Postcode: 321400

E-mail address: N/A

**Emergency telephone number**

Company Emergency Phone Number: +86-769-87285025

**2. HAZARDS IDENTIFICATION****Classification**

Acute toxicity - Dermal	Category 3
Serious eye damage/eye irritation	Category 2A
Carcinogenicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 1

**GHS Label elements, including precautionary statements****Danger****Hazard statements**

Toxic in contact with skin

Causes serious eye irritation

Suspected of causing 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 breathe dust/fume/gas/mist/vapors/spray

Do not eat, drink or smoke when using this product

**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 immediately all contaminated clothing and wash it before reuse

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Other information**

harmful if swallowed. Very toxic to aquatic life with long lasting effects.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical characterization: Mixtures****Description:**

Product: Consisting of the following components.

Chemical Composition	Chemical Formula	Weight(%)	CAS Number
Lithium Cobalt Oxide	LiCoO <sub>2</sub>	40.2	12190-79-3
Lithium Carbonate	Li <sub>2</sub> CO <sub>3</sub>	0.8	554-13-2
Aluminium	Al	5.8	7429-90-5
Graphite	C <sub>24</sub> X <sub>12</sub>	19.8	7782-42-5
Styrene-Butadiene Rubber (SBR)	(C <sub>8</sub> H <sub>8</sub> .C <sub>4</sub> H <sub>6</sub> ) <sub>x</sub>	1.1	61789-96-6
Carboxymethylcellulose	C <sub>8</sub> H <sub>16</sub> O <sub>8</sub>	0.3	9000-11-7
Copper	Cu	10.7	7440-50-8
Nickel	Ni	1.0	7440-02-0
Lithium Hexafluorophosphate	LiPF <sub>6</sub>	20.3	21324-40-3

Note: CAS number is Chemical Abstract Service Registry Number.

N/A=Not apply.

## 4. FIRST-AID MEASURES

### First aid measures

Eye Contact Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.

Skin Contact Remove contaminated clothing and shoes. Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.

Inhalation Move to fresh air. If symptoms persist, call a physician.

Ingestion Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed

Swallowing Do not induce vomiting. Get medical attention.

Most Important Symptoms/Effects No information available.

### Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically

## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

CO<sub>2</sub>, dry chemical powder, water spray.

Unsuitable Extinguishing Media: No information available.

### Specific Hazards Arising from the Chemical

Formation of toxic gases is possible during heating or in case of fire.

In case of fire, the following can be released:

Carbon monoxide(CO)

Carbon dioxide

Other irritating and toxic gases.

### 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. For example: Wear self-contained respiratory protective device. Wear suitable protective clothing and eye/face protection.

### Special hazards arising from the substance or mixture:

Battery may burst and release hazardous decomposition products when exposed to a fire situation. Lithium ion batteries contain flammable electrolyte that may vent, ignite and produce sparks when subjected to high temperature(>150°C), When damaged or abused(e.g. mechanical damage or electrical overcharging); may burn rapidly with flare-burning effect; may ignite other batteries in clothes proximity.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

Personal Precautions Avoid contact with eyes.

Refer to section 8 for personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.

Evacuate personnel to safe areas.

**Environmental precautions**

Environmental Precautions Refer to protective measures listed in Sections 7 and 8.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

**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 Use personal protective equipment. Dam up. Cover liquid spill with sand, earth or other Non combustible absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Wear personal protective equipment.

Wash thoroughly after handling. Use this material with adequate ventilation.

The product is not explosive.

**Conditions for safe storage, including any incompatibilities**

If the Lithium-ion Battery is subject to storage for such a long term as more than 3 months, it is recommended to recharge the Li-ion Polymer Battery periodically.

3 months: -10°C~+40°C, 45 to 85%RH

And recommended at 0°C~+35°C for long period storage.

The capacity recovery rate in the delivery state (50% capacity of fully charged) after storage is assumed to be 80% or more.

The voltage for a long time storage shall be 3.7V~4.2V range.

Do not storage Lithium-ion Battery haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by other metal objects.

Keep out of reach of children.

Do not expose Li-ion Polymer Battery to heat or fire. Avoid storage in direct sunlight.

Do not store together with oxidizing and acidic materials.

Keep ignition sources away- Do not smoke.

Store in cool, dry and well-ventilated place.

**Incompatible Products** None known.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Control parameters**

Ingredients with limit values that require monitoring at the workplace:

182442-95-1 Lithium Manganese Nickel And Cobalt

TLV (USA)	0.02mg/m <sup>3</sup>
MAK (Germany)	0.1mg/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).

**Appropriate engineering controls**

**Engineering Measures** Showers  
 Eyewash stations  
 Ventilation systems

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Ensure adequate ventilation.

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

**Eye/Face Protection:**



**Tightly sealed goggles**

**Body protection:**

Protective work clothing.

**Skin protection:**



**Protective gloves**

**Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**Penetration time of glove material:**

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

**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.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Form: Cylindrical
	Color: Pink

	Odour: Odourless
	Odor Threshold: No information available
Change in condition:	Not determined.
pH, with indication of the concentration	Not determined.
Melting point/freezing point	Not determined.
Initial boiling point and Boiling range:	Not determined.
Flash Point	Not determined.
Evaporation rate	Not determined.
Flammability (solid, gas)	Not determined.
Upper/lower flammability or explosive limits	Not determined.
Vapor Pressure:	Not determined.
Vapor Density:	Not determined.
relative density:	Not determined.
Solubility in Water:	Not determined.
Solubility in other solvents	Not determined.
n-octanol/water partition coefficient	Not determined.
Auto-ignition temperature	Product is not self-igniting.
Decomposition temperature	Not determined.
Odour threshold	Not determined.
Evaporation rate	Not determined.
Viscosity	Not determined.
Other Information	No further relevant information available.

## 10. STABILITY AND REACTIVITY

**Reactivity:** Stable under recommended storage and handling conditions (see section 7, Handling and storage).

**Chemical stability:** Stable under normal conditions of use, storage and transport.

**Thermal decomposition/conditions to be avoided:** No decomposition if used according to specifications.

**Possibility of Hazardous Reactions:** None under normal processing.

**Hazardous Polymerization:** Hazardous polymerization does not occur.

**Conditions to avoid:** Strong heating, fire, Incompatible materials.

**Incompatible materials:** Strong oxidizing agents. Strong acids. Base metals.

**Hazardous Decomposition Products:** Carbon oxides, Other irritating and toxic gases.

## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity:** No data available.

LD/LC50 values relevant for classification:

Not available.

**Skin corrosion/irritation:** No irritant effect.

**Serious eye damage/irritation:** Cause serious eye irritation.

**Respiratory or skin sensitization:** No sensitizing effects known.

**Specific target organ system toxicity:** No information available.

**CMR effects(carcinogenicity, mutagenicity and toxicity for reproduction):** No information available.

## 12. Ecological Information

### Toxicity:

Acquatic toxicity:

No further relevant information available.

**Persistence and degradability:** No further relevant information available.

**Bioaccumulative potential:** No further relevant information available.

**Mobility in soil:** No further relevant information available.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

**Other adverse effects:** No information available.

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

Recommendation: Must not be disposed together with household garbage.

Do not allow product to reach sewage system

### Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

## 14. TRANSPORT INFORMATION

This report applies to by sea, by air and by land;

The Polymer Li-ion Rechargeable Battery must be of a design type proved to meet the testing requirements of the Manual of test and criteria, Part III, subsection 38.3;

The Polymer Li-ion Rechargeable Battery according to Section II of PACKING INSTRUCTION 965-967 of the 2019 IATA Dangerous Goods regulations 60<sup>th</sup> Edition may be transported. and applicable U.S. DOT regulations for the safe transport of Lithium-ion Battery.

Polymer Li-ion Rechargeable Battery was protected so as to prevent short circuits. This includes protection against contact with conductive materials within the same packaging that could lead to short circuit;

Cell and batteries offered for transport must be packed in inner packaging's that completely enclose the cell or battery; to provide protection from damage or compression to the batteries, the inner packaging's must be placed in a strong rigid outer packaging;

The packaging shall be adequate to avoid mechanical damage during transport, handling and stacking. The materials and pack design shall be chosen so as to prevent the development of unintentional electrical conduction, corrosion of the terminals and ingress of moisture.

The package must be handled with care and that a flammability hazard exists if the package is damaged;

With regard to transport, the following regulations are cited and considered:

- The International Civil Aviation Organization (ICAO) Technical Instructions.
- The International Air transport Association (IATA) Dangerous Goods Regulations.

UN number of lithium battery: UN3480;

UN Proper shipping name/Description (technical name): Lithium ion batteries;

- The International Maritime Dangerous Goods Code 2018 Edition (Amdt.39-18)

For lithium-ion batteries by sea, provided that packaging is strong and prevent the products from short-circuit.

UN number of lithium battery: UN3481;

UN Proper shipping name/Description (technical name): Lithium ion batteries

Special Provision: International maritime dangerous goods code (IMDG) 188, 230, 310, 348, 957;

- The US Hazardous Materials Regulation (HMR) pursuant to a final rule issued by RSPA
- The Office of Hazardous Materials Safety within the US Department of Transportations' (DOT) Research and Special Programs Administration (RSPA)

## 15. REGULATORY INFORMATION

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

EU Regulation:

**Authorisations:** No information available.

**Restrictions on use:** No information available.

#### Regulatory information

CAS No.	EU (EINECS )	US (TSCA)	Japan (ENCS)	Canada (DSL/ NDSL)	Australia (AICS)	Korea (ECL)	China (IECSC)
12190-79-3	Listed	Not listed	Not listed	NDSL	Not listed	Not listed	Not listed
7429-90-5	Listed	Listed	Listed	DSL	Listed	Listed	Listed
24937-79-9	Listed	Listed	Listed	DSL	Listed	Listed	Listed
7782-42-5	Not listed	Listed	Not listed	DSL	Listed	Listed	Listed
7440-50-8	Not listed	Listed	Not listed	DSL	Listed	Listed	Listed
9003-55-8	Listed	Not listed	Not listed	NDSL	Not listed	Not listed	Not listed
21324-40-3	Listed	Not listed	Not listed	NDSL	Not listed	Not listed	Not listed
96-49-1	Listed	Not listed	Not listed	NDSL	Not listed	Not listed	Not listed
616-38-6	Listed	Not listed	Not listed	NDSL	Not listed	Not listed	Not listed
623-53-0	Listed	Not listed	Not listed	NDSL	Not listed	Not listed	Not listed

7440-02-0	Listed	Not listed	Not listed	NDSL	Not listed	Not listed	Not listed
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**Chemical safety assessment** A Chemical Safety Assessment has not been carried out.

## 16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

\*\*\*\*\*End of SDS\*\*\*\*\*

# Safety DATA SHEET

## FICHE DE DONNÉES SUR LA SÉCURITÉ

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

1.IDENTIFICATION DE LA SUBSTANCE/PRÉPARATION ET DE LA ENTREPRISE/ENTREPRISE

#### Product identifier

Identificateur de produit

**Product Name** 751836  
Nom du produit

#### Details of the supplier of the Safety data sheet

Détails du fournisseur de la fiche de données de sécurité

**Supplier Name** Dongguan Sunly Battery Technology Co., Ltd.

Nom du fournisseur

#### **Supplier Address**

Adresse du fournisseur

Building 30th, Xin Tai Yang Industrial City, No.8 Xinyang Road, Lin Cun Community, Tangxia Town, Dongguan City, Guangdong Province, China

#### **Supplier Phone Number**

Numéro de téléphone du fournisseur

Phone:+86-769-87285025  
Téléphone : +86-769-87285025

#### **Supplier Email**

Courriel du fournisseur

[RD-qinguofu@sunlybattery.com](mailto:RD-qinguofu@sunlybattery.com)

### 2. HAZARDS IDENTIFICATION

2.HAZARDS IDENTIFICATION

#### Classification

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.

Ce produit chimique n'est pas considéré comme dangereux par la norme de communication des dangers de l'OSHA 2012 (29 CFR 1910.1200) Ce produit est un article qui est une batterie scellée et qui, à ce titre, ne nécessite pas de SMDPar selon la norme de communication sur les risques de l'OSHA, à moins d'être rompu. Les dangers indiqués sont pour une batterie rompue.

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Carcinogenicity	Category 1
Acute Toxicity-Oral	Category 4
Specific target organ toxicity(Repeated Exposure)	Category 1

#### GHS Label elements, including precautionary statements

Éléments de l'étiquette GHS, y compris les déclarations de précaution

#### Emergency Overview

Vue d'ensemble d'urgence

<b>Signal word</b> Mot de signal	<b>Danger</b> Danger
<b>Hazard Statements</b> Déclarations de dangers	
<b>Harmful if swallowed</b> Nocif s'il est avalé	
<b>Cause skin irritation</b> Causer une irritation de la peau	
<b>Causes serious eye damage</b> Cause de graves lésions oculaires	
<b>May cause cancer</b> Peut causer le cancer	
<b>Causes damage to organs</b> Cause des dommages aux organes	
	
<p>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.</p> <p>This is a battery. In case of rupture: the above hazards exist.</p> <p>Ce produit est un article qui contient une substance chimique. Des informations sur la sécurité sont données pour l'exposition à l'article tel qu'il a été vendu. L'utilisation prévue du produit ne devrait pas entraîner l'exposition à la substance chimique. C'est une batterie. En cas de rupture : les dangers ci-dessus existent.</p>	
<b>Appearance</b> <b>Apparence</b>	<b>Silvery</b> Argenté
<b>Physical State</b> <b>État physique</b>	<b>Solid</b> Liquide solide contenant
<b>Odor</b> <b>Odeur</b>	<b>Odorless</b> Inodore

**Precautionary Statements – Prevention**

Déclarations de précaution - Prévention

**Wash face, hands and any exposed skin thoroughly after handling**

Lavez le visage, les mains et toute peau exposée à fond après la manipulation

**Wear protective gloves/protective clothing/eye protection/face protection**

Portez des gants de protection/vêtements de protection/protection oculaire/protection du visage

**Wear eye/face protection**

Portez une protection pour les yeux et le visage

**Precautionary Statements – Response**

Déclarations de précaution - Réponse

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

Traitement spécifique (voir instructions de premiers soins supplémentaires sur cette étiquette)

**Eyes**

Yeux

**IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing****SI EN YEUX: Rincer prudemment avec de l'eau pendant plusieurs minutes. Enlever les lentilles cornéennes, si elles sont présentes et faciles à faire. Continuer le rinçant****If eye irritation persists: Get medical advice/attention**

Si l'irritation oculaire persiste : Obtenez des conseils médicaux/attention

**Skin**

Peau

**IF ON SKIN: Wash with plenty of soap and water****SI SUR SKIN: Laver avec beaucoup de savon et d'eau****Take off contaminated clothing and wash before reuse**

Enlever les vêtements contaminés et les laver avant de les réutiliser

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

En cas d'irritation ou d'éruption cutanée : Obtenez des conseils médicaux/attention

**Precautionary Statements – Storage**

Déclarations de précaution - Stockage

Store locked up  
Magasin verrouillé

**Precautionary Statements – Disposal**

Déclarations de précaution - Disposition

Dispose of contents/container to an approved waste disposal plant

Disposer du contenu/conteneur dans une usine d'élimination des déchets approuvée

**Hazards not otherwise classified (HNOC)**

Risques non classés autrement

Not applicable

Non applicable

**Other information**

Autres informations

**Interactions with Other Chemicals**

Interactions avec d'autres produits chimiques

No information available

Aucune information disponible

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.COMPOSITION/INFORMATION SUR INGREDIENTS

Common Chemical Name	Chemical Formula	Concentration (%)	CAS Number
Lithium Cobalt Oxide	LiCoO <sub>2</sub>	40.5	12190-79-3
Polyvinylidene Fluoride (PVDF)	(C <sub>2</sub> H <sub>2</sub> F <sub>2</sub> ) <sub>n</sub>	0.8	24937-79-9
Aluminium	Al	5.8	7429-90-5
Graphite	C <sub>24</sub> X <sub>12</sub>	19.0	7782-42-5
Styrene-Butadiene Rubber (SBR)	(C <sub>8</sub> H <sub>8</sub> .C <sub>4</sub> H <sub>6</sub> ) <sub>x</sub>	1.2	61789-96-6
Carboxymethylcellulose	C <sub>6</sub> H <sub>12</sub> O <sub>6</sub>	0.3	9000-11-7
Copper	Cu	10.6	7440-50-8
Nickel	Ni	0.4	7440-02-0
Lithium Hexafluorophosphate	LiPF <sub>6</sub>	21.4	21324-40-3

## 4. FIRST AID MEASURES

### 4.MESURES DE PREMIERS SOINS

#### **First aid measures**

Mesures de premiers secours

#### **General Advice**

Conseils généraux

First aid is upon rupture of sealed battery. Show this Safety data sheet to the doctor in attendance

Les premiers soins sont sur la rupture de la batterie scellée. Montrez cette fiche de données sécurité au médecin présent

#### **Eye Contact**

Contact visuel

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

Rincer immédiatement avec beaucoup d'eau, également sous les paupières, pendant au moins 15 minutes. Gardez les yeux grands ouverts tout en rinçant. Retirez les lentilles cornéennes, si elles sont présentes et faciles à faire. Continuer le rinçant. Obtenir des soins médicaux si l'irritation se développe et persiste. Ne frottez pas la zone touchée

#### **Skin Contact**

Contact peau

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

Laver immédiatement avec du savon et beaucoup d'eau pendant au moins 15 minutes. Dans le cas d'une irritation de la peau ou des réactions allergiques voir un médecin. Peut provoquer une réaction cutanée allergique.

#### **Inhalation**

Inhalation

Remove to fresh air. If symptoms persist, call a physician. Get medical attention immediately if symptoms occur.

Retirer à l'air frais. Si les symptômes persistent, appelez un médecin. Obtenez immédiatement des soins médicaux en cas de symptômes.

#### **Ingestion**

Ingestion

Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician.

Ne pas induire des vomissements. Rincer la bouche immédiatement et boire beaucoup d'eau. Ne donnez jamais rien par la bouche à une personne inconsciente. Appelez un médecin.

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

Autoprotection du secouriste

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wear personal protective clothing (see section 8)

Évitez tout contact avec la peau, les yeux ou les vêtements. Utilisez de l'équipement de protection individuelle au besoin. Porter des vêtements de protection individuelle (voir la section 8)

#### **Most important symptoms and effects, both acute and delayed**

Les symptômes et effets les plus importants, aigus et retardés

#### **Most Important Symptoms and Effects**

Symptômes et effets les plus importants

Coughing and/ or wheezing. Itching.

Toux et/ou respiration sifflante. Démangeaisons.

#### **Indication of any immediate medical attention and special treatment needed**

Indication de toute attention médicale immédiate et traitement spécial nécessaire

#### **Notes to Physician**

Notes au médecin

Treat symptomatically

Traiter symptomatiquement

## 5. FIRE-FIGHTING MEASURES

### 5.MESURES DE LUTTE CONTRE L'INCENDIE

#### **Suitable Extinguishing Media**

Médias d'extinction appropriés

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

Utiliser des mesures d'extinction adaptées aux circonstances locales et aux Environnement.

#### Unsuitable Extinguishing Media

Médias d'extinction inappropriés

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

**CAUTION: L'utilisation de pulvérisation d'eau lors de la lutte contre l'incendie peut être inefficace**

#### Specific Hazards Arising from the Chemical

Risques spécifiques découlant de la

No information available.

Aucune information disponible.

#### Hazardous Combustion Products

Produits de combustion dangereux

Carbon Oxides

Oxydes de carbone

#### Protective equipment and precautions for firefighters

Équipement de protection et précautions pour les pompiers

As in any fire, wear self-contained breathing apparatus pressure-demand,MSHA/NIOSH (approved or equivalent) and full protective gear.

Comme dans tout incendie, porter un appareil respiratoire autonome à la demande de pression,MSHA/NIOSH (approuvé ou équivalent) et un équipement de protection complet.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.MESURES DE LIBÉRATION ACCIDENTELLE

#### Personal precautions, protective equipment and emergency procedures

##### Personal Precautions

Précautions personnelles

Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas.

Évitez tout contact avec la peau, les yeux ou les vêtements. Assurer une ventilation adéquate. Utilisez de l'équipement de protection individuelle au besoin. Évacuer le personnel vers des zones sûres.

##### Other Information

Autres informations

Refer to protective measures listed in Sections 7 and 8

Se référer aux mesures de protection énumérées aux articles 7 et 8

##### Environmental Precautions

Précautions environnementales

Refer to protective measures listed in Sections 7 and 8.

Se référer aux mesures de protection énumérées aux articles 7 et 8

##### Methods for cleaning up

Méthodes de nettoyage

Pick up and transfer to properly labeled containers

Ramassage et transfert dans des contenants correctement étiquetés

##### Methods for Containment

Méthodes de confinement

Prevent further leakage or spillage if safe to do so.

Empêchez d'autres fuites ou déversements s'ils sont sécuritaires.

##### Methods for cleaning up

Méthodes de nettoyage

Pick up and transfer to properly labeled containers.

Ramassage et transfert dans des contenants correctement étiquetés.

## 7. HANDLING AND STORAGE

### 7.MANIPULATION ET STOCKAGE

#### Precautions for safe handling

Précautions pour une manipulation sécuritaire

##### Handling

Manipulation

In case of rupture. Use personal protection equipment. Avoid contact with skin, eyes or clothing.

En cas de rupture. Utilisez de l'équipement de protection individuelle. Évitez tout contact avec la peau, les yeux ou les vêtements.

#### Conditions for safe storage, including any incompatibilities

Conditions d'entreposage sécuritaire, y compris les incompatibilités

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place.  
Stockage Gardez les contenants bien fermés dans un endroit sec, frais et bien aéré.

**Incompatible Products** Strong acids. Strong oxidizing agents. Strong bases.  
Produits incompatibles Des acides forts. Agents oxydants forts. Des bases solides.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.CONTRÔLES D'EXPOSITION/PROTECTION PERSONNELLE

#### Control parameters

Paramètres de contrôle

#### Exposure Guidelines

Ligne directrice sur l'exposition

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Lithium Cobalt Oxide 12190-79-3	TWA: 0.02 mg/m <sup>3</sup>		
Graphite 7782-42-5	TWA: 2 mg/m <sup>3</sup> respirable fraction all forms except graphite fibers	TWA: 15 mg/m <sup>3</sup> total dust synthetic TWA: 5 mg/m <sup>3</sup> respirable fraction synthetic (vacated) TWA: 2.5 mg/m <sup>3</sup> respirable dust natural (vacated) TWA: 10 mg/m <sup>3</sup> total dust synthetic (vacated) TWA: 5 mg/m <sup>3</sup> respirable fraction synthetic TWA: 15 mppcf natural	IDLH: 1250 mg/m <sup>3</sup> TWA: 2.5 mg/m <sup>3</sup> respirable dust
Copper 7440-50-8	TWA: 0.2 mg/m <sup>3</sup> fume TWA: 1 mg/ mg/m <sup>3</sup> Cu dust and mist	TWA: 0.1 mg/m <sup>3</sup> fume TWA: 1 mg/m <sup>3</sup> dust and mist (vacated) TWA: 0.1 mg/m <sup>3</sup> Cu dust, fume, mist	IDLH: 100 mg/m <sup>3</sup> dust, fume and mist TWA: 1 mg/m <sup>3</sup> dust and mist TWA: 0.1 mg/m <sup>3</sup> fume
Aluminum 7429-90-5	TWA: 1 mg/m <sup>3</sup> respirable fraction	TWA: 15 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable fraction (vacated) TWA: 15 mg/m <sup>3</sup> total dust (vacated) TWA: 5 mg/m <sup>3</sup> respirable fraction (vacated) TWA: 5 mg/m <sup>3</sup> Al Aluminum	TWA: 10 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable dust
Nickel 7440-02-0	TWA: 1.5 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup> (vacated) TWA: 1 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup> TWA: 0.015 mg/m <sup>3</sup>

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

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL:

Occupational Safety and Health Administration - Limites d'exposition admissibles immédiatement dangereuses pour  
la vie ou la santé

#### Other Exposure Guidelines

Autres lignes directrices sur  
l'exposition

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

Limites libérées révoquées par la décision de la Cour d'appel dans l'affaire  
AFL-CIO c. OSHA, 965 F.2d 962 (11e cir., 1992) Voir l'article 15 des paramètres  
nationaux de contrôle de l'exposition

**Appropriate engineering controls**

Contrôles techniques appropriés

**Engineering Measures**

Mesures techniques

Showers

Douches

Eyewash stations

Stations de lavage des yeux

Ventilation systems

Systèmes de ventilation

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

Mesures de protection individuelles, telles que l'équipement de protection individuelle

**Eye/Face Protection**

Protection œil/visage

If splashes are likely to occur: Wear Safety glasses with side shields (or goggles). None required for consumer use.

Si des éclaboussures sont susceptibles de se produire: Portez des lunettes de sécurité avec des boucliers latéraux (ou des lunettes). Aucun n'est requis pour l'usage du consommateur.

**Skin and Body Protection**

Protection de la peau et du corps

Wear protective gloves and protective clothing. Long sleeved clothing.

Impervious gloves

Portez des gants de protection et des vêtements de protection. Vêtements à manches longues. Gants imperméables

**Respiratory Protection**

Protection respiratoire

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Aucun équipement de protection n'est nécessaire dans des conditions d'utilisation normales. Si les limites d'exposition sont dépassées ou si l'irritation est ressentie, une ventilation et une évacuation peuvent être nécessaires.

**Hygiene Measures**

Mesures d'hygiène

Handle in accordance with good industrial hygiene and Safety practice.

Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Wash hands before breaks and immediately after handling the product.

Poignée conformément aux bonnes pratiques d'hygiène et de sécurité. Ne mangez pas, ne buvez pas ou ne fumez pas lorsque vous utilisez ce produit. Enlever les vêtements contaminés et les laver avant de les réutiliser. Évitez tout contact avec la peau, les yeux ou les vêtements. Portez des gants appropriés et une protection pour les yeux et le visage. Lavez-vous les mains avant de se briser et immédiatement après la manipulation du produit.

**9. PHYSICAL AND CHEMICAL PROPERTIES****9.PROPRIÉTÉS PHYSIQUES ET CHIMIQUES****Physical and Chemical Properties**

Propriétés physiques et chimiques

**Physical State**

État physique

Solid

solide

**Appearance**

Apparence

Silvery

Argenté

**Odor**

Odeur

Odorless

Inodore

**Color**

Couleur

No information available

Aucune information disponible

**Odor Threshold**

Seuil d'odeur

No information available

Aucune information disponible

**Property**

Propriété

**Values**

Valeurs

**Remarks/ Method**

Remarques/Méthode

**Ph**

Ph

No data available

Aucune information disponible

None known

Inconnu

**Melting / freezing point**

Point de fusion / point de congélation

No data available

Aucune information disponible

None known

Inconnu

**Boiling point / boiling range**

Point d'ébullition / gamme d'ébullition

No data available

Aucune information

None known

Inconnu

<b>Flash Point</b> Point d'éclair	disponible No data available Aucune information disponible	None known Inconnu
<b>Evaporation Rate</b> Taux d'évaporation	No data available Aucune information disponible	None known Inconnu
<b>Flammability (solid, gas)</b> Flammabilité (solide, gaz)	No data available Aucune information disponible	None known Inconnu
<b>Flammability Limit in Air</b> Limite d'inflammabilité dans l'air		
<b>Upper flammability limit</b> Limite supérieure d'inflammabilité	No data available Aucune information disponible	
<b>Lower flammability limit</b> Limite d'inflammabilité inférieure	No data available Aucune information disponible	
<b>Vapor pressure</b> Pression de vapeur	No data available Aucune information disponible	None known Inconnu
<b>Vapor density</b> Densité de vapeur	No data available Aucune information disponible	None known Inconnu
<b>Specific Gravity</b> Spécifique Gravité	No data available Aucune information disponible	None known Inconnu
<b>Water Solubility</b> Hydrosolubilité	No data available Aucune information disponible	None known Inconnu
<b>Solubility in other solvents</b> Solubilité dans d'autres solvants	No data available Aucune information disponible	None known Inconnu
<b>Partition coefficient: n-octanol/water</b> Coefficient de partition : n-octanol/eau	0.00001 0.00001	None known Inconnu
<b>Autoignition temperature</b> Température d'auto-allumage	No data available Aucune information disponible	None known Inconnu
<b>Decomposition temperature</b> Température de décomposition	No data available Aucune information disponible	None known Inconnu
<b>Kinematic viscosity</b> Viscosité cinématique	No data available Aucune information disponible	None known Inconnu
<b>Dynamic viscosity</b> Viscosité dynamique	0.00001 0.00001	None known Inconnu
<b>Explosive properties</b> Propriétés explosives	No data available Aucune information disponible	
<b>Oxidizing Properties</b> Propriétés oxydantes	No data available Aucune information disponible	
<b>Other Information</b> Autres informations		
<b>Softening Point</b> Point d'adoucissement	No data available Aucune information disponible	
<b>VOC Content (%)</b> Contenu DE COV (%)	No data available Aucune information disponible	
<b>Particle Size</b> Taille des particules	No data available Aucune information disponible	

## 10. STABILITY AND REACTIVITY

### 10.STABILITÉ ET RÉACTIVITÉ

#### **Reactivity**

Réactivité

No data available  
Aucune donnée disponible

### **Chemical stability**

Stabilité chimique

Stable under recommended storage conditions.  
Stable dans les conditions d'entreposage recommandées.

### **Possibility of Hazardous Reactions**

Possibilité de réactions dangereuses

None under normal processing.  
Aucun dans le cadre d'un traitement normal.

### **Hazardous Polymerization**

Polymérisation dangereuse

Hazardous polymerization does not occur.  
La polymérisation dangereuse ne se produit pas.

### **Conditions to avoid**

Conditions à éviter

None known based on information supplied.  
inconnu s'appuyant sur les informations fournies.

### **Incompatible materials**

Matériaux incompatibles

Strong acids. Strong oxidizing agents. Strong bases.  
Des acides forts. Agents oxydants forts. Des bases solides.

### **Hazardous Decomposition Products**

Produits de décomposition dangereux

Carbon oxides.  
Des oxydes de carbone.

## 11. TOXICOLOGICAL INFORMATION

### 11.INFORMATIONS TOXICOLOGIQUES

#### **Information on likely routes of exposure**

#### **Product Information**

Informations sur les produits

Product does not present an acute toxicity hazard based on known or supplied information In case of rupture

Le produit ne présente pas de risque de toxicité aigu fondé sur des informations connues ou fournies en cas de rupture

#### **Inhalation**

Inhalation

Specific test data for the substance or mixture is not available.

Corrosive by inhalation.(based on components).

Les données d'essai spécifiques pour la substance ou le mélange ne sont pas disponibles. Corrosif par inhalation. (basé sur des composants).

#### **Eye Contact**

Contact visuel

Specific test data for the substance or mixture is not available.

Expected to be and irritant based on components. Irritating to eyes.

May cause redness, itching, and pain. May cause temporary eye irritation.

Les données d'essai spécifiques pour la substance ou le mélange ne sont pas disponibles. Prévu pour être et irritant basé sur les composants. Irritant pour les yeux. Peut causer des rougeurs, des démangeaisons et de la douleur. Peut causer une irritation temporaire des yeux.

#### **Skin Contact**

Contact peau

Specific test data for the substance or mixture is not available.

Expected to be an irritant based on components. Irritating to skin.

Prolonged contact may cause redness and irritation.

Les données d'essai spécifiques pour la substance ou le mélange ne sont pas disponibles. On s'attend à être un irritant basé sur des composants. Irritant pour la peau. Un contact prolongé peut causer des rougeurs et de l'irritation.

#### **Ingestion**

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.

Les données d'essai spécifiques pour la substance ou le mélange ne sont pas

disponibles. L'ingestion peut causer une irritation des muqueuses. L'ingestion peut causer une irritation gastro-intestinale, des nausées, des vomissements et de la diarrhée.

### Component Information

Informations sur les composants

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Iron 7439-89-6	= 984 mg/kg ( Rat )	-	-
Graphite 7782-42-5	> 10000 mg/kg ( Rat )	-	-
Nickel 7440-02-0	> 9000 mg/kg ( Rat )	-	-
Carbon black 1333-86-4	> 15400 mg/kg ( Rat )	> 3 g/kg ( Rabbit )	-
Sodium carboxymethyl cellulose 9004-32-4	-	-	> 5800 mg/m3 ( Rat ) 4 h

### Information on toxicological effects

Informations sur les effets toxicologiques

#### Symptoms

Symptômes

Erythema (skin redness). May cause redness and tearing of the eyes. Coughing and/ or wheezing. Itching.  
Érythème (rougeur de peau). Peut causer des rougeurs et des déchirures des yeux. Toux et/ou respiration sifflante. Démangeaisons.

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

Effets retardés et immédiats ainsi que effets chroniques de l'exposition à court et à long terme

#### Sensitization

Sensibilisation

May cause sensitization of susceptible persons. May cause sensitization by skin contact.  
Peut provoquer la sensibilisation des personnes sensibles. Peut provoquer une sensibilisation par contact cutané.

#### Mutagenic Effects

Effets mutagènes

No information available

Aucune information disponible

#### Carcinogenicity

Cancérogénicité

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

Le tableau ci-dessous indique si chaque organisme a inscrit un ingrédient comme cancérogène

Chemical Name	ACGIH	IARC	NTP	OSHA
Nickel 7440-02-0		Group 2B	Reasonably Anticipated	X
Carbon black 1333-86-4	A3	Group 2B		X

## 12. ECOLOGICAL INFORMATION

### 12. INFORMATIONS ÉCOLOGIQUES

#### 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 7439-89-6		96h LC50: = 13.6 mg/L (Morone saxatilis)		
Nickel 7440-02-0	72h EC50: = 0.18 mg/L (Pseudokirchneriella subcapitata) 96h EC50: 0.174 - 0.311 mg/L	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

	(Pseudokirchneriella subcapitata)			
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: = 0.112 mg/L (Poecilia reticulata) 96h LC50: = 0.3 mg/L (Cyprinus carpio) 96h LC50: = 0.8 mg/L (Cyprinus carpio) 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)		48h EC50: = 0.03 mg/L
Carbon black 1333-86-4				24h EC50: > 5600 mg/L

**Persistence and Degradability**

Persistence et dégradabilité  
No information available.  
Aucune information disponible.

**Bioaccumulation**

Bioaccumulation  
No information available  
Aucune information disponible.

**Other adverse effects**

Autres effets indésirables  
No information available.  
Aucune information disponible.

**13. DISPOSAL CONSIDERATIONS**

## 13. CONSIDÉRATIONS D'ÉLIMINATION

**Waste treatment methods**

Méthodes de traitement des déchets

**Disposal methods**

Méthodes d'élimination

Should not be released into the environment.

Ne doit pas être libéré dans l'environnement.

**Contaminated Packaging**

Emballage contaminé

Dispose of in accordance with federal, state and local regulations.

Disposer conformément aux réglementations fédérales, étatiques et locales.

**US EPA Waste Number**

Dispose of contents/containers in accordance with local regulations.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Nickel 7440-02-0	(hazardous constituent - no waste number)	Included in waste streams: F006, F039		

**California Hazardous Waste Codes 141**

Codes de déchets dangereux de la Californie 141

Chemical Name Nom chimique	California Hazardous Waste Déchets dangereux de la Californie
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Aluminum 7429-90-5	Ignitable powder Inflammables Poudre
Copper 7440-50-8	Toxic Toxiques
Nickel 7440-02-0	Toxic powder Ignitable powder

## 14. TRANSPORT INFORMATION

### 14. INFORMATIONS SUR LES TRANSPORTS

**Note:**

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"

Le transport des cellules et batteries primaires au lithium est réglementé par l'Organisation de l'aviation civile internationale, l'Association internationale du transport aérien, l'International Maritime Dangerous Goods Code et le département des Transports des États-Unis. Les batteries doivent répondre aux critères d'expédition suivants : 1. Les expéditions aériennes doivent satisfaire aux exigences indiquées dans la disposition spéciale A45 du Règlement sur les marchandises dangereuses de l'Association internationale du transport aérien. 2. Répondre aux exigences du département des Transports des États-Unis inscrits au 49 CFR 173.185. 3. Le transport de batteries au lithium primaires est interdit à bord des avions de passagers. Se référer au Registre fédéral le 15 décembre 2004 (Matières dangereuses; Interdiction de transport de batteries et de cellules de lithium primaires à bord d'aéronefs de passagers; Règle finale) Les batteries au lithium expédiées sous le titre de « batteries au lithium », « batteries au lithium emballées avec de l'équipement » ou « batteries au lithium contenues dans l'équipement » ne peuvent pas être classées comme « marchandises dangereuses » lorsqu'elles sont expédiées conformément à la « provision spéciale A45 de l'IATA-DGR » " ou "disposition spéciale 188 du code IMO-IMDG"

**DOT**

**Proper Shipping Name**

Nom d'expédition approprié

**Hazard Class**

Catégorie de danger

**TDG**

**MEX**

**ICAO**

**IATA**

**Proper Shipping Name**

Nom d'expédition approprié

**Hazard Class**

Catégorie de danger

**IMDG/IMO**

**Proper Shipping Name**

Nom d'expédition approprié

**Hazard Class**

Catégorie de danger

**EmS No.**

NOT REGULATED

NON RÉGLEMENTÉ

NOT REGULATED

NON RÉGLEMENTÉ

N/A

N/A

Not regulated

NON RÉGLEMENTÉ

N/A

N/A

Not regulated

NON RÉGLEMENTÉ

NON-REGULATED PER SP 188

N/A

F-A, S-I

<b>RID</b>	Not regulated NON RÉGLEMENTÉ
<b>ADR</b>	Not regulated NON RÉGLEMENTÉ
<b>AND</b>	Not regulated NON RÉGLEMENTÉ

## 15. REGULATORY INFORMATION

### 15. INFORMATIONS RÉGLEMENTAIRES

#### **International Inventories**

Inventaires internationaux

TSCA	Complies Conforme
DSL	All components are listed either on the DSL or NDSL. Tous les composants sont répertoriés soit sur le DSL ou NDSL

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**TSCA** -United States Toxic Substances Control Act Section 8(b) Inventaire

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List Liste des substances domestiques

**DSL/NDSL** - Canadiennes/Liste des substances non domestiques

#### **US Federal Regulations**

Règlement fédéral des États-Unis

#### **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

L'article 313 du Titre III de la Superfund Amendments and Reauthorization Act of 1986 (SARA). Ce produit contient un produit chimique ou chimique qui est assujetti aux exigences de déclaration de la Loi et du titre 40 du Code de réglementation fédérale, Partie 372

Chemical Name Nom chimique	CAS No CAS Nombre	Weight-% Poids-%	SARA 313 - Threshold Values % SARA 313 - Seuil Valeurs%
Nickel	7440-02-0	0.6	0.1
Aluminum	7429-90-5	4.36	1.0
Copper	7440-50-8	8.12	1.0

#### **SARA 311/312 Hazard Categories**

SARA 311/312 Catégories de dangers

<b>Acute Health Hazard</b>	No
Risque aigu pour la santé	non
<b>Chronic Health Hazard</b>	No
Risque chronique pour la santé	non
<b>Fire Hazard</b>	No
Incendie Risque	non
<b>Sudden release of pressure hazard</b>	No
Libération soudaine du risque de pression	non
<b>Reactive Hazard</b>	No
Risque réactif	non

#### **CWA (Clean Water Act)**

**CWA** (Loi sur l'eau propre)

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)

Ce produit contient les substances suivantes qui sont des polluants réglementés en vertu de la Loi sur l'eau propre (40 CFR 122,21 et 40 CFR 122,42)

Chemical Name Nom chimique	CWA - Reportable Quantities CWA -Rapportables Quantités	CWA - Toxic Pollutants CWA - Toxiques Polluants	CWA - Priority Pollutants CWA - Priorité Polluants	CWA - Hazardous Substances CWA - Dangereux Substances
Copper 7440-50-8		X	X	

Nickel 7440-02-0		X	X	
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**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)

Ce matériel, tel qu'il est fourni, contient une ou plusieurs substances réglementées comme substance dangereuse en vertu de la Loi sur l'indemnisation et la responsabilité en matière d'indemnisation et de responsabilité environnementales globales (CERCLA) (40 CFR 302)

Chemical Name Nom chimique	Hazardous Substances RQs Substances dangereuses RQs	Extremely Hazardous Substances RQs Extrêmement dangereux Substances RQs	RQ
Nickel 7440-02-0	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ
Copper 7440-50-8	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ
Aluminum 7429-90-5			

**US State Regulations**

Règlement des États-Unis

**California Proposition 65**

Proposition de la Californie 65

This product contains the following Proposition 65 chemicals.

Ce produit contient les produits chimiques suivants de la Proposition 65

Chemical Name	California Proposition 65
Nickel - 7440-02-0	Carcinogen
Carbon black - 1333-86-4	Carcinogen

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

Règlement sur le droit de savoir des États-Unis

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Lithium Cobalt Oxide (CoLiO2) 12190-79-3	X		X	X	X
Graphite 7782-42-5	X	X	X		
Copper 7440-50-8	X	X	X	X	X
Aluminum 7429-90-5	X	X	X	X	
Nickel 7440-02-0	X	X	X	X	X
Carbon black 1333-86-4	X	X	X		X

**International Regulations**

Règlement international

**Mexico****National occupational exposure limits**

Limites nationales d'exposition professionnelle

Component Composant	Carcinogen Status Statut cancérogène	Exposure Limits Limites d'exposition
Graphite 7782-42-5		Mexico: TWA= 2 mg/m <sup>3</sup>
Copper 7440-50-8		Mexico: TWA= 1 mg/m <sup>3</sup> Mexico: TWA= 0.2 mg/m <sup>3</sup> Mexico: STEL= 2 mg/m <sup>3</sup>
Aluminum 7429-90-5		Mexico: TWA= 10 mg/m <sup>3</sup>
Nickel 7440-02-0		Mexico: TWA 1 mg/m <sup>3</sup>
Carbon black 1333-86-4		Mexico: TWA 3.5 mg/m <sup>3</sup> Mexico: STEL 7 mg/m <sup>3</sup>

Mexico - Occupational Exposure Limits – Carcinogens

Mexico - Limites d'exposition professionnelle - Cancérogène

**Canada**  
**WHMIS Hazard Class**  
Classe DE danger WHMIS  
**Non-controlled**  
Non contrôlé

## 16. OTHER INFORMATION

16.AUTRES INFORMATIONS

### Prepared By

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### Revision Note

Note de révision No information available  
Aucune information disponible

### End of Safety Data Sheet

Feuille de données de fin de sécurité