Issuing Date 29-Apr-2015 Revision Date June 21, 2016 Revision Number D



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

Product identifier Battery Tender Lithium Battery, BTL09A120C, BTL14A240C, BTL18A300C, BTL24A360C,

BTL35A480C

Product Name Lithium Iron rechargeable batteries

Other means of identification

Synonyms Lithium Ion Battery

### Recommended use of the chemical and restrictions on use

Recommended Use Engine Start Automotive battery

Uses advised against Not intended for high discharge usage

Details of the supplier of the safety data sheet

Deltran USA LLC

801 International Speedway Blvd Deland, Florida, USA, 32724

(386) 736-7900

Emergency telephone number

Chemtrec

Telephone Number (USA) 1-800-424-9300 International Number +1 (703) 527-3887

### 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.

| Acute toxicity - Dermal                            | Category 4                |
|--|---------------------------|
| Skin corrosion/irritation                          | Category 1 Sub-category B |
| Serious eye damage/eye irritation                  | Category 1                |
| Skin sensitization                                 | Category 1                |
| Carcinogenicity                                    | Category 2                |
| Specific target organ toxicity (repeated exposure) | Category 1                |

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#### GHS Label elements, including precautionary statements

#### **Emergency Overview**

Signal word

**Danger** 

### **Hazard Statements**

Harmful in contact with skin

Causes severe skin burns and eye damage

May cause an allergic skin reaction

Suspected of causing cancer

Causes damage to organs through prolonged or repeated exposure



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

Appearance Blue/Black/Green

Physical State Solid

Odor Odorless

#### **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

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

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 eat, drink or smoke when using this product

#### **Precautionary Statements - Response**

Specific treatment (see on this label)

Immediately call a POISON CENTER or doctor/physician

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 Immediately call a POISON CENTER or doctor/physician

#### Skin

Call a POISON CENTER or doctor/physician if you feel unwell

Wash contaminated clothing before reuse

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

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

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Immediately call a POISON CENTER or doctor/physician

#### Ingestion

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting



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### **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**

70% 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**

Irritants. Sensitizers. Epoxies.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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| Chemical Name                       | CAS No     | Weight-% | Trade Secret |
|-------------------------------------|------------|----------|--------------|
| Graphite                            | 7782-42-5  | 7 - 13   | *            |
| Phosphate(1-), hexafluoro-, lithium | 21324-40-3 | 3 - 7    | *            |
| Ethylene carbonate                  | 96-49-1    | 3 - 7    | *            |
| Copper                              | 7440-50-8  | 3 - 7    | *            |
| Aluminum                            | 7429-90-5  | 3 - 7    | *            |
| Nickel                              | 7440-02-0  | 1 - 5    | *            |

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret

### Watt Hour rating by Battery Part Number

| Battery Part Number | Watt Hour |
|---------------------|-----------|
| BTL09A120C          | 25.6Wh    |
| BTL14A240C          | 51.2Wh    |
| BTL18A300C          | 64Wh      |
| BTL24A360C          | 76.8Wh    |
| BTL35A480C          | 96Wh      |

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### 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. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate medical

attention/advice.

**Skin Contact**Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Seek immediate medical attention/advice. May cause an allergic

skin reaction.

**Inhalation** Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical

attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary

edema may occur. Get medical attention immediately if symptoms occur.

**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 or poison control

center immediately.

Self-protection of the first

aider

Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. Wear

personal protective clothing (see section 8).

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

**Most Important Symptoms and Itching.** Coughing and/ or wheezing. Burning sensation. **Effects** 

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

**Notes to Physician** Product is a corrosive material. Use of gastric lavage or emesis is contraindicated.

Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure.

May cause sensitization of susceptible persons. Treat symptomatically.

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### 5. FIRE-FIGHTING MEASURES

#### **Suitable Extinguishing Media**

Class-D dry chemical powder or sand.

### Unsuitable extinguishing media

CAUTION: Do Not use water spray as means for extinguishing.

#### Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation and skin contact. The product causes burns of eyes, skin and mucous membranes. 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.

### 6. ACCIDENTAL RELEASE MEASURES

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

Personal Precautions In case of rupture: Attention! Corrosive material. Avoid contact with skin, eyes or clothing.

Ensure adequate ventilation. Use personal protective equipment as required. Evacuate

personnel to safe areas. Keep people away from and upwind of spill/leak.

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

**Environmental Precautions** 

**Environmental Precautions** Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage

if safe to do so. Should not be released into the environment. Do not allow to enter into

soil/subsoil. Prevent product from entering drains.

#### 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.

Use personal protection equipment. Avoid contact with skin, eyes or clothing.

### Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from

moisture. Store locked up. Keep out of the reach of children. Store away from other

materials.

**Incompatible Products** Acids. Bases. Oxidizing agent.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control parameters**

### **Exposure Guidelines**

| Chemical Name                       | ACGIH TLV  | OSHA PEL  | NIOSH IDLH   |
|-------------------------------------|--|---|--|
| Graphite<br>7782-42-5               | TWA: 2 mg/m <sup>3</sup> respirable fraction all forms except graphite | TWA: 15 mg/m <sup>3</sup> total dust synthetic  | IDLH: 1250 mg/m <sup>3</sup><br>TWA: 2.5 mg/m <sup>3</sup> respirable dust |
| 1102-42-3                           | fibers   | TWA: 5 mg/m <sup>3</sup> respirable             | TWA. 2.5 mg/m Tespirable dust  |
|                                     | niboro   | 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                           |  |
| Phosphate(1-), hexafluoro-, lithium | TWA: 2.5 mg/m <sup>3</sup> F   | TWA: 2.5 mg/m³ F                                |  |
| 21324-40-3                          |  | TWA: 2.5 mg/m <sup>3</sup> dust                 |  |
| _                                   | 3  | (vacated) TWA: 2.5 mg/m <sup>3</sup>            | 3  |
| Copper                              | TWA: 0.2 mg/m <sup>3</sup> fume TWA: 1                                 | TWA: 0.1 mg/m³ fume                             | IDLH: 100 mg/m <sup>3</sup> dust, fume and                                 |
| 7440-50-8                           | mg/m <sup>3</sup> Cu dust and mist                                     | TWA: 1 mg/m³ dust and mist                      | mist   |
|                                     |  | (vacated) TWA: 0.1 mg/m³ Cu<br>dust, fume, mist | TWA: 1 mg/m <sup>3</sup> dust and mist TWA: 0.1 mg/m <sup>3</sup> fume     |
| Aluminum                            | TWA: 1 mg/m <sup>3</sup> respirable                                    | TWA: 15 mg/m <sup>3</sup> total dust            | TWA: 10 mg/m³ total dust   |
| 7429-90-5                           | fraction   | TWA: 5 mg/m <sup>3</sup> respirable             | TWA: 5 mg/m <sup>3</sup> respirable dust                                   |
|                                     |  | fraction  | 3 11, 1111   |
|                                     |  | (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            | _  |
| Nickel                              | TWA: 1.5 mg/m <sup>3</sup>   | TWA: 1 mg/m <sup>3</sup>                        | IDLH: 10 mg/m <sup>3</sup>   |
| 7440-02-0                           |  | (vacated) TWA: 1 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 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

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### Appropriate engineering controls

Engineering Measures Showers

Eyewash stations Ventilation systems

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

**Eye/Face Protection** If there is a risk of contact:. Face protection shield.

Skin and Body Protection If there is a risk of contact:. Wear protective gloves and protective clothing. Long sleeved

clothing. Chemical resistant apron. Impervious gloves.

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. Avoid contact with

skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. For environmental protection, remove and wash all

None known

None known

contaminated protective equipment before re-use.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

### **Physical and Chemical Properties**

Physical State Solid

AppearanceBlue/Black/GreenOdorOdorless

Color No information available Odor Threshold No information available

Property Values Remarks Method No data available None known рΗ Melting / freezing point No data available None known Boiling point / boiling range No data available None known **Flash Point** No data available None known No data available **Evaporation Rate** 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/waterNo data available None known **Autoignition temperature** No data available None known No data available **Decomposition temperature** None known

No data available

Dynamic viscosityNo data availableExplosive propertiesNo data availableOxidizing PropertiesNo data available



Kinematic viscosity

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Other Information

Softening PointNo data availableVOC Content (%)No data availableParticle SizeNo 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**

Exposure to air or moisture over prolonged periods.

#### Incompatible materials

Acids. Bases. Oxidizing agent.

### **Hazardous Decomposition Products**

Carbon oxides.

#### 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Product Information** In case of rupture:.

**Inhalation** Specific test data for the substance or mixture is not available. Corrosive by inhalation.

(based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs.

Pulmonary edema can be fatal. May cause irritation of respiratory tract.

**Eye Contact** Specific test data for the substance or mixture is not available. Causes burns. (based on

components). Corrosive to the eyes and may cause severe damage including blindness.

Causes serious eye damage. May cause irreversible damage to eyes.

**Skin Contact** Specific test data for the substance or mixture is not available. Corrosive. (based on

components). Causes burns. May be absorbed through the skin in harmful amounts. Harmful

in contact with skin.

**Ingestion** Specific test data for the substance or mixture is not available. Causes burns. (based on

components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways. Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea,

vomiting and diarrhea.

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#### **Component Information**

| Chemical Name | Oral LD50           | Dermal LD50 | Inhalation LC50 |
|---------------|---------------------|-------------|-----------------|
| Graphite      | > 10000 mg/kg (Rat) | -           | -               |
| 7782-42-5     |                     |             |                 |
| Nickel        | > 9000 mg/kg (Rat)  | -           | -               |
| 7440-02-0     |                     |             |                 |

#### Information on toxicological effects

Symptoms Erythema (skin redness). Burning. May cause blindness. Coughing and/ or wheezing. Itching.

Rashes. Hives.

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

**Sensitization** May cause sensitization of susceptible persons. 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 |
|---------------|-------|----------|------------------------|------|
| Nickel        |       | Group 2B | Reasonably Anticipated | X    |
| 7440-02-0     |       | ·        |                        |      |

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

NTP (National Toxicology Program)

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**No known effect based on information supplied. Chronic exposure to corrosive fumes/gases

may cause erosion of the teeth followed by jaw necrosis. Bronchial irritation with chronic cough and frequent attacks of pneumonia are common. Gastrointestinal disturbances may also be seen. Contains a known or suspected carcinogen. Avoid repeated exposure.

Prolonged exposure may cause chronic effects. May cause adverse liver effects.

Target Organ Effects Respiratory system. Eyes. Skin. Gastrointestinal tract (GI). Central Vascular System (CVS).

Kidney. Liver. Lungs. Nasal cavities.

**Aspiration Hazard** No information available.

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Battery Tender Lithium Battery

Revision Date June 21, 2016

### Numerical measures of toxicity Product Information

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

ATEmix (oral)
2,889.00 mg/kg
ATEmix (dermal)
1,800.00 mg/kg (ATE)
ATEmix (inhalation-dust/mist)
840.00 mg/l

## 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Harmful to aquatic life. Very toxic to aquatic life with long lasting effects.

| Chemical Name       | Toxicity to Algae  | Toxicity to Fish  | Toxicity to<br>Microorganisms | Daphnia Magna (Water<br>Flea)              |
|---------------------|--|---|-------------------------------|--|
| Copper<br>7440-50-8 | 96h EC50: 0.031 - 0.054<br>mg/L (Pseudokirchneriella<br>subcapitata) 72h EC50:<br>0.0426 - 0.0535 mg/L<br>(Pseudokirchneriella<br>subcapitata) | 96h LC50: 0.0068 - 0.0156<br>mg/L (Pimephales promelas)<br>96h LC50: = 0.112 mg/L<br>(Poecilia reticulata) 96h<br>LC50: = 0.3 mg/L (Cyprinus<br>carpio) 96h LC50: = 0.8<br>mg/L (Cyprinus carpio) 96h<br>LC50: = 1.25 mg/L (Lepomis<br>macrochirus) 96h LC50: = |                               | 48h EC50: = 0.03 mg/L                      |
|                     |  | 0.052 mg/L (Oncorhynchus<br>mykiss) 96h LC50: = 0.2<br>mg/L (Pimephales promelas)<br>96h LC50: < 0.3 mg/L<br>(Pimephales promelas)  |                               |  |
| Nickel<br>7440-02-0 | 72h EC50: = 0.18 mg/L<br>(Pseudokirchneriella<br>subcapitata) 96h EC50:<br>0.174 - 0.311 mg/L<br>(Pseudokirchneriella<br>subcapitata)          | 96h LC50: > 100 mg/L<br>(Brachydanio rerio) 96h<br>LC50: = 1.3 mg/L (Cyprinus<br>carpio) 96h LC50: = 10.4<br>mg/L (Cyprinus carpio)   |                               | 48h EC50: > 100 mg/L 48h<br>EC50: = 1 mg/L |

### Persistence and Degradability

No information available.

#### Bioaccumulation

No information available

### Other adverse effects

No information available.

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### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

**Disposal methods** Should not be released into the environment.

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

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

#### 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<br>7440-50-8   | Toxic                            |
| Aluminum<br>7429-90-5 | Ignitable powder                 |
| Nickel<br>7440-02-0   | Toxic powder<br>Ignitable powder |

### 14. TRANSPORT INFORMATION

**Note:** The Battery cells and Batteries have been tested and meet all the requirements of the

UN38.3 test. These results are documented in the reports issued by Pony Testing International Group for the following part numbers: BTL09A120C, BTL14A240C,

BTL18A300C, BTL24A360C, BTL35A480C

<u>Title 49 Code of Federal Regulations 172.101</u>

UN Number UN3480

Proper Shipping Name Lithium Ion Batteries

Hazard Class 9
Packing Group II
ERG Number 147

**TDG** (Canada) Transportation of Dangerous Goods Act, 1992 / SOR/2014-306

UN Number UN3480

Proper Shipping Name Lithium Ion Batteries

Hazard Class 9
Packing Group III
ERG Number 147

ICAO International Civil Aviation Organization/Doc 9284

UN Number UN3480

Proper Shipping Name Lithium Ion Batteries

Hazard Class 9

Packing Instruction 965 Sections IA, IB and Section II of the 2015, 56th Edition

ERG Number 147



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IATA Dangerous Goods Regulations 56<sup>th</sup> Edition (2015) UPD3

UN Number UN3480

Proper Shipping Name Lithium Ion Batteries

Hazard Class 9

**Packing Instruction** 965 Sections IA, IB and Section II of the 2015, 56<sup>th</sup> Edition

ERG Code 98

IMDG / IMO International Maritime Dangerous Goods Code (Vol I & II with amendment 37-14)

UN Number UN3480

Proper Shipping Name Lithium Ion Batteries

Hazard Class 9
Packing Group P903
EmS-No. F-A, S-I

### 15. REGULATORY INFORMATION

#### International Inventories

TSCA Complies

DSL All components are listed either on the DSL or NDSL.

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<br>Values % |
|----------------------|-----------|----------|----------------------------------|
| Copper - 7440-50-8   | 7440-50-8 | 3 - 7    | 1.0                              |
| Aluminum - 7429-90-5 | 7429-90-5 | 3 - 7    | 1.0                              |
| Nickel - 7440-02-0   | 7440-02-0 | 1 - 5    | 0.1                              |

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<br>Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous<br>Substances |
|---------------------|--------------------------------|------------------------|---------------------------|-------------------------------|
| Copper<br>7440-50-8 |                                | X                      | X                         |                               |
| Nickel<br>7440-02-0 |                                | X                      | X                         |                               |



### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

| Chemical Name       | Hazardous Substances RQs | Extremely Hazardous Substances RQs | RQ   |
|---------------------|--------------------------|------------------------------------|--|
| Copper<br>7440-50-8 | 5000 lb                  |                                    | RQ 5000 lb final RQ<br>RQ 2270 kg final RQ |
| Nickel<br>7440-02-0 | 100 lb                   |                                    | RQ 100 lb final RQ<br>RQ 45.4 kg final RQ  |

### **US State Regulations**

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

| Chemical Name      | California Proposition 65 |
|--------------------|---------------------------|
| Nickel - 7440-02-0 | Carcinogen                |

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

| Chemical Name                  | New Jersey | Massachusetts | Pennsylvania | Rhode Island | Illinois |
|--------------------------------|------------|---------------|--------------|--------------|----------|
| Graphite<br>7782-42-5          | X          | Х             | X            |              |          |
| Ethylene carbonate<br>96-49-1  |            | Х             | Χ            |              |          |
| Dimethyl carbonate<br>616-38-6 | Х          | Х             | Χ            |              |          |
| Aluminum<br>7429-90-5          | Х          | Х             | Χ            | Х            |          |
| Copper<br>7440-50-8            | Х          | Х             | Х            | Х            | Х        |
| Nickel<br>7440-02-0            | Х          | Х             | Х            | Х            | Х        |

### International Regulations

### **Mexico**

### **National occupational exposure limits**

| Component            | Carcinogen Status | Exposure Limits                    |
|----------------------|-------------------|------------------------------------|
| Graphite             |                   | Mexico: TWA= 2 mg/m <sup>3</sup>   |
| 7782-42-5 ( 7 - 13 ) |                   |                                    |
| Copper               |                   | Mexico: TWA= 1 mg/m <sup>3</sup>   |
| 7440-50-8 ( 3 - 7 )  |                   | Mexico: TWA= 0.2 mg/m <sup>3</sup> |
|                      |                   | Mexico: STEL= 2 mg/m <sup>3</sup>  |
| Aluminum             |                   | Mexico: TWA= 10 mg/m <sup>3</sup>  |
| 7429-90-5 ( 3 - 7 )  |                   | -                                  |
| Nickel               |                   | Mexico: TWA 1 mg/m <sup>3</sup>    |
| 7440-02-0 ( 1 - 5 )  |                   | _                                  |

Mexico - Occupational Exposure Limits - Carcinogens

Canada

**WHMIS Hazard Class** 

Non-controlled



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### **16. OTHER INFORMATION**

NFPA Health Hazards 1 Flammability 0 Instability 0 Physical and

Chemical Hazards -

HMIS Health Hazards 4 Flammability 0 Physical Hazard 1 Personal Protection

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### Disclaimer

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**End of Safety Data Sheet** 

