# SAFETY DATA SHEET

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|---|---|
| Product: | Rechargeable Li-ion Battery |
| Model/type reference: | ABI-LG18650-1S1P-3200 |
| Nominal Voltage: | 3.7V |
| Rated Capacity: | 3200mAh (11.84Wh) |
| Applicant: | ASCENT INT'L GROUP CO., LIMITED |
| Address: | Unit 1313 13/F Tai Yau Building, 181 Johnston Road, Wanchai, Hong Kong |
| Report No: | P25021105701 |
| Effective date: | 2025-02-18 |
| Revision date: | 2025-02-18 |

Laboratory: **Shenzhen NTEK New Energy Technology Co., Ltd.**
Room 101&102, Building B, Fenda Science Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen City, Guangdong Province, China.

*The supplier identified below generated this SDS using the NTEK SDS template. NTEK 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. NTEK 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.*

**Compiled by (name+ signature) ..:** Jake Chen

**Approved by (name+ signature) ..:** Jesse Zhang

Shenzhen NTEK New Energy Technology Co., Ltd. NTEK Report Seal

## Section 1- Identification of the Substance/Preparation and of the Company/Undertaking

**Product Identifier**

**Product Name:** Rechargeable Li-ion Battery

**Model No.:** ABI-LG18650-1S1P-3200

**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**

**Manufacturer's/ Supplier Name:** Huizhou JBT Technology Co., Ltd.

**Address:** 4F, No.8 Building, Hechang East 5th Road, Zhongkai Hi-Tech Development Zone, Huizhou, Guangdong, China

**Telephone number of the manufacturer/supplier:** +86-18998111429

**Emergency Telephone Number (24h):** +86-18998111429

**E-mail address:** hlc@jbt-battery.com

**Version number:** V2.0

## Section 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 2 |
| Skin sensitization | Category 1 |
| Specific target organ toxicity (repeated exposure) | Category 1 |

**GHS Label elements, including precautionary statements**

**Emergency Overview**

**Signal word:** Danger

**Hazard Statements**

Causes skin irritation

Causes serious eye irritation

May cause an allergic skin reaction

May cause cancer



This product is an article which contains a chemical substance. Safety information is given for exposure to the article as sold.
Intended use of the product should not result in exposure to the chemical substance This is a battery. In case of rupture: the above hazards exist.

**Appearance** Gray **Physical State** Solid **Odor** Odorless

| | |
|---|---|
| **Precautionary Statements - Prevention** | Obtain special instructions before use<br>Do not handle until all safety precautions have been read and understood<br>Use personal protective equipment as required<br>Wash face, hands and any exposed skin thoroughly after handling<br>Contaminated work clothing should not be allowed out of the workplace<br>Wear protective gloves<br>Do not breathe dust/fume/gas/mist/vapors/spray<br>Do not eat, drink or smoke when using this product |
| **Precautionary Statements - Response** | IF exposed or concerned: Get medical advice/attention<br>Specific treatment (see supplemental first aid instructions on this label)<br>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<br>IF ON SKIN: Wash with plenty of soap and water<br>Take off contaminated clothing and wash before reuse<br>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** | - |
| **Other information** | May be harmful if swallowed<br>Very toxic to aquatic life with long lasting effects<br>Repeated or prolonged skin contact may cause allergic reactions with susceptible persons |
| **Interactions** | No information available. |

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|---|---|
| **with Other Chemicals** | |

## Section 3 – Composition/Information on Ingredients

| Chemical Name | CAS Number | Weight-% | Trade Secret |
|---|---|---|---|
| Lithium Cobalt Oxide ($LiCoO_2$) | 12190-79-3 | 37.6 | - |
| Graphite | 7782-42-5 | 20.2 | - |
| Dimethyl carbonate | 616-38-6 | 11.4 | - |
| Copper | 7440-50-8 | 7.2 | - |
| Aluminum | 7429-90-5 | 4 | - |
| Nickel | 7440-02-0 | 0.3 | - |
| Iron | 7439-89-6 | 16.6 | - |
| Polyethylene | 9002-88-4 | 2 | - |
| Carbon | 7440-44-0 | 0.7 | - |

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

## Section 4 – First-aid Measures

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| **General Advice** | First aid is upon rupture of sealed battery.<br>**Eye contact:** If symptoms persist, call a physician. 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.<br>**Skin contact:** 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.<br>**Inhalation:** Remove to fresh air. If symptoms persist, call a physician. Get medical attention immediately if symptoms occur.<br>**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.<br>**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 effects, both acute and delayed** | **Most important symptoms and effects:** Itching. Coughing and/ or wheezing. |
| **Indication of any immediate medical** | **Notes to Physician:** Treat symptomatically. May cause sensitization of susceptible persons. |

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| **attention and special treatment needed** | |

## Section 5 – Fire-fighting Measures

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| **Suitable extinguishing Media** | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| **Unsuitable extinguishing Media** | CAUTION: Use of water spray when fighting fire may be inefficient. |
| **Specific Hazards arising from the chemical** | Product is or contains a sensitizer. May cause sensitization by skin contact. |
| **Hazardous Combustion Products** | Carbon oxides. |
| **Explosion Data** | **Sensitivity to Mechanical Impact:** No.<br>**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. |

## Section 6 – Accidental Release Measures

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|---|---|
| **Personal Precautions, protective equipment, and emergency procedures** | **Personal Precautions:** Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas.<br>**Other Information:** Refer to protective measures listed in Sections 7 and 8. |
| **Environmental Precautions** | Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. |
| **Methods and material for containment and cleaning up** | **Methods for Containment:** Prevent further leakage or spillage if safe to do so.<br>**Methods for cleaning up:** Pick up and transfer to properly labeled containers. |

## Section 7 – Handling and Storage

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|---|---|
| **Precautions for safe handling** | **Handling:** In case of rupture. Use personal protection equipment. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Do not breathe dust/fume/gas/mist/vapors/spray. |
| **Conditions for safe storage, including any incompatibilities** | **Storage:** Keep containers tightly closed in a dry, cool and well-ventilated place.<br>**Incompatible Products:** Strong acids. Strong oxidizing agents. Strong bases. |

## Section 8 – Exposure Controls and Personal Protection

**Control parameters**

**Exposure Guidelines**

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---|---|---|---|
| Graphite<br>7782-42-5 | TWA: 2 mg/m³ respirable fraction all forms except graphite fibers | TWA: 15 mg/m³ total dust synthetic<br>TWA: 5 mg/m³ respirable fraction synthetic<br>(vacated) TWA: 2.5 mg/m³ respirable dust natural<br>(vacated) TWA: 10 mg/m³ total dust synthetic<br>(vacated) TWA: 5 mg/m³ respirable fraction synthetic<br>TWA: 15 mppcf natural | IDLH: 1250 mg/m³<br>TWA: 2.5 mg/m³ respirable dust |
| Copper<br>7440-50-8 | TWA: 0.2 mg/m³ fume<br>TWA: 1 mg/m³ Cu dust and mist | TWA: 0.1 mg/m³ fume<br>TWA: 1 mg/m³ dust and mist<br>(vacated) TWA: 0.1 mg/m³ Cu dust, fume, mist | IDLH: 100 mg/m³ dust, fume and mist<br>TWA: 1 mg/m³ dust and mist<br>TWA: 0.1 mg/m³ fume |
| Lithium Cobalt Oxide ($LiCoO_2$)<br>12190-79-3 | TWA: 0.02 mg/m³ | - | - |
| Nickel<br>7440-02-0 | TWA: 1.5 mg/m³ | TWA: 1 mg/m³ (vacated)<br>TWA: 1 mg/m³ | IDLH: 10 mg/m³<br>TWA: 0.015 mg/m³ |
| Aluminum<br>7429-90-5 | TWA: 1 mg/m³ respirable fraction | TWA: 15 mg/m³ total dust<br>TWA: 5 mg/m³ respirable fraction<br>(vacated) TWA: 15 mg/m³ total dust<br>(vacated) TWA: 5 mg/m³ respirable fraction<br>(vacated)<br>TWA: 5 mg/m³ Aluminum | TWA: 10 mg/m³ total dust<br>TWA: 5 mg/m³ respirable 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:**<br>Showers<br>Eyewash stations<br>Ventilation systems. |
| **Individual protection measures, such as personal protective equipment** | **Eye/Face Protection:** If splashes are likely to occur:. Wear safety glasses with side shields (or goggles). None required for consumer use.<br>**Skin and Body Protection:** Wear protective gloves and protective clothing. Long sleeved clothing. Impervious gloves.<br>**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.<br>**Hygiene Measures:** 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. |

## Section 9 - Physical and Chemical Properties

| | |
|---|---|
| **Physical Properties** | **Physical state:** Solid |
| | **Appearance:** Gray and Cylindrical |
| | **Color:** Gray |
| | **Odor:** Odorless |
| | **Odor Threshold:** No information available |

**Chemical Properties:**

| **Property** | **Values** | **Remarks/ Method** |
|---|---|---|
| **pH** | No data available | None known |
| **Melting / freezing point** | No data available | None known |
| **Boiling point / boiling range** | No data available | None known |
| **Flash Point** | No data available | None known |
| **Evaporation Rate** | No data available | None known |
| **Flammability (solid, gas)** | No data available | None known |
| **Flammability Limit in Air** | No data available | - |

| | | |
|---|---|---|
| **Upper flammability limit**<br>**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/water** | 0.00001 | None known |
| **Autoignition temperature** | 130℃ | None known |
| **Decomposition temperature** | No data available | None known |
| **Kinematic viscosity** | No data available | None known |
| **Dynamic viscosity** | 0.00001 | None known |
| **Explosive properties** | No data available | - |
| **Oxidizing Properties** | No data available | - |

**Other Information**

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

## Section 10 - Stability and Reactivity

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|---|---|
| **Reactivity** | No data available. |
| **Chemical stability** | Stable under recommended storage conditions. |
| **Possibility of Hazardous Reactions** | None under normal processing. |
| **Hazardous Polymerization** | Hazardous polymerization does not occur. |
| **Conditions to avoid** | None known based on information supplied. |
| **Incompatible materials** | Strong acids. Strong oxidizing agents. Strong bases. |
| **Hazardous Decomposition Products** | Carbon oxides. |

## Section 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. Expected to be an irritant based on components. Irritating to eyes. May cause redness, itching, and pain. May cause temporary eye irritation. |
| **Skin Contact** | 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. |
| **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 |
|---|---|---|---|
| Graphite<br>7782-42-5 | > 10000 mg/kg ( Rat ) | - | - |
| Iron<br>7439-89-6 | = 984 mg/kg ( Rat ) | - | - |
| Nickel<br>7440-02-0 | > 9000 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 of susceptible persons. May cause sensitization by skin contact.<br>**Mutagenic Effects:** No information available.<br>**Carcinogenicity:** The table below indicates whether each agency has listed any ingredient as a carcinogen |

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|---|---|---|---|---|
| Lithium Cobalt Oxide ($LiCoO_2$)<br>12190-79-3 | A3 | Group 2B | - | X |
| Nickel<br>7440-02-0 | - | Group 1<br>Group 2B | Reasonably Anticipated | X |

***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*
***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 liver effects. |
| **Target Organ Effects** | Respiratory system. Eyes. Skin. Gastrointestinal tract (GI). Central Vascular System (CVS).Kidney. Liver. Lungs. Heart. |
| **Aspiration Hazard** | No information available. |

**Numerical measures of toxicity Product Information**

| | |
|---|---|
| **The values which are on the right are calculated based on chapter 3.1 of the GHS document.** | **ATEmix (oral)**<br>**ATEmix (dermal)**<br>**ATEmix (inhalation-dust/mist)** |

## Section 12 - Ecological Information

**Ecotoxicity**

Very toxic to aquatic life with long lasting effects.

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

| | | | | |
|---|---|---|---|---|
| | | (Pimephales promelas)<br>96h LC50: < 0.3 mg/L (Pimephales promelas) | | |
| Iron<br>7439-89-6 | - | 96h LC50: 13.6 mg/L (Morone saxatilis) | - | - |
| Nickel<br>7440-02-0 | 72h EC50: = 0.18 mg/L (Pseudokirchneriella subcapitata) 96h EC50: 0.174 - 0.311 mg/L (Pseudokirchneriella subcapitata) | 96h LC50: > 100 mg/L (Brachydanio rerio)<br>96h LC50: 1.3 mg/L (Cyprinus carpio)<br>96h LC50: 10.4mg/L (Cyprinus carpio) | - | 48h EC50: > 100 mg/L 48h EC50: 1 mg/L |

| | |
|---|---|
| **Persistence and Degradability** | No information available. |
| **Bioaccumulation** | No information available |
| **Other adverse effects** | No information available. |

## Section 13 – Disposal Considerations

**Waste treatment methods**

**Disposal methods:** This material, as supplied, is not a hazardous waste according to Federal regulations (40CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

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

| Chemical Name | RCRA | RCRA - D Series Wastes | RCRA - U Series Wastes | OSHA |
|---|---|---|---|---|
| Nickel<br>7440-02-0 | (hazardous constituent – no waste number) | Included in waste streams: 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 |
| Lithium Cobalt Oxide ($LiCoO_2$)<br>12190-79-3 | Toxic |
| Nickel<br>7440-02-0 | Toxic powder<br>Ignitable powder |

| | |
|---|---|
| Aluminum<br>7429-90-5 | Ignitable powder |

## Section 14 – Transport Information

The Rechargeable Li-ion Battery as stated in Appendix is made in compliance to the requirements stated in the latest edition of the IATA Dangerous Goods Regulations Packing Instruction 965 section IB or 966 section II or 967 section II.

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

- The International Civil Aviation Organization (ICAO) Technical Instructions, Packing instruction 965 section IB or 966 section II or 967 section II (2025-2026 Edition).
- The International Air transport Association (IATA) Dangerous Goods Regulations, Packing instruction 965 section IB or 966 section II or 967 section II (66$^{th}$ Edition, 2025).
- Special provision 188 of the International Maritime Dangerous Goods (IMDG) Code (Amendment 42-24 Edition).
- The US Hazardous Materials Regulation 49 CRF (Code of Federal Regulations), sections 173-185 Lithium batteries and cells.
- The UN Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria 38.3 Lithium batteries.

These products are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to all the applicable international and national governmental regulations, not limited to the above mentioned. We further certify that the enclosed products have been tested and fulfilled the requirements and conditions in accordance with UN Recommendations (T1 – T8) on the Transport of Dangerous Goods Model Regulations and the Manual of Tests and Criteria.

**Test results of the UN Recommendation on the Transport of Dangerous Goods**

| **Manual of Test and Criteria (38.3 Lithium battery)** | | | |
|---|---|---|---|
| **No.** | **Test items** | **Test results** | **Remark** |
| T1 | Altitude simulation | Pass | - |
| T2 | Thermal test | Pass | - |
| T3 | Vibration | Pass | - |
| T4 | Shock | Pass | - |
| T5 | External short circuit | Pass | - |
| T6 | Impact | Pass | - |
| T7 | Overcharge | Pass | - |
| T8 | Forced discharge | Pass | - |

**Additional Requirements for air transport:**

1. Cells and batteries must be protected so as to prevent short circuits. This includes protection against contact with conductive materials within the same packaging that could lead to a short circuit.
2. Cells and batteries must be manufactured under a quality management program.
3. The Watt-hour rating must be marked on the outside of the battery case except those manufactured before 1 January 2009.
4. Cells and batteries must be packed in strong outer packagings. (Applicable to PI 965 only)

5. Cells and batteries must be packed in inner packagings that completely enclose the cell or battery. To provide protection from damage or compression to the batteries, the inner packagings must be placed in a strong rigid outer packaging of one of the packaging types shown below.
6. Each consignment must be accompanied with a document with an indication that:

·the package contains lithium ion cells or batteries;
·the package must be handled with care and that a flammability hazard exists if the package is damaged;
·special procedures must be followed in the event the package is damaged, to include inspection and repacking if necessary; and
·a telephone number for additional information.

7. Each package must be labelled with a battery handling label (Figure 7.4.H) in addition to the Class 9 hazard label (Figure 7.3.W) and Cargo Aircraft Only label.
   Each package must be marked in accordance with the requirements of 7.1.4.1(a) and (b) and in addition the net weight when required by 7.1.4.1(c) must be marked on the package. (Applicable to PI 965 only)
8. Each package must be capable of withstanding a 1.2 m drop test in any orientation without (Applicable to PI 965 and 966 only):

·damage to cells or batteries contained therein;
·shifting of the contents so as to allow battery to battery (or cell to cell) contact;
·release of contents.

9. Each package must be labelled with a battery handling label (Figure 7.4.H). (Applicable to PI 966 and 967 only)
10. A Shipper's Declaration for Dangerous Goods is not required. (Applicable to PI 966 and 967 only)
11. Any person preparing or offering cells or batteries for transport must receive adequate instruction on these requirements commensurate with their responsibilities.
12. The equipment must be secured against movement within the outer packaging and must be equipped with an effective means of preventing accidental activation. (Applicable to PI 966 only)
13. The maximum number of batteries in each package must be the minimum number required to power the equipment plus two spares. (Applicable to PI 966 only)
14. The words “Lithium ion batteries in compliance with Section II of PI 966” must be included on the air waybill, when an air waybill is used. The information should be shown in the “Nature and Quantity of Goods” box of the air waybill. (Applicable to PI 966 only)
15. Maximum net quantity of lithium ion cells must not be more than 5 kg. (Applicable to PI 966 and 967 only)
16. Equipment must be equipped with an effective means of preventing accidental activation. (Applicable to PI 967 only)
17. The equipment containing the cells or batteries must be secured against movement within the outer packaging and be packed so as to prevent accidental operation during air transport. (Applicable to PI 967 only)
18. The equipment must be packed in strong outer packagings constructed of suitable material of adequate strength and design in relation to the packaging's capacity and its intended use unless the cell or battery is afforded equivalent protection by the equipment in which it is contained. (Applicable to PI 967 only)
19. Where a consignment includes packages bearing the battery handling label, the words “Lithium ion batteries in compliance with Section II of PI 967” must be included on the air waybill, when an air waybill is used. The information should be shown in the “Nature and Quantity of Goods” box of the air waybill. (Applicable to PI 967 only)

## Section 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 Values % |
|---|---|---|---|
| Copper | 7440-50-8 | 7.2 | 1.0 |
| Lithium Cobalt Oxide ($LiCoO_2$) | 12190-79-3 | 37.6 | 0.1 |
| Nickel | 7440-02-0 | 0.3 | 0.1 |
| Aluminum | 7429-90-5 | 4 | 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 | - | X | X | - |
| Nickel 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 7440-50-8 | 5000 lb | - | RQ 5000 lb final RQ<br>RQ 2270 kg final RQ |
| Nickel 7440-02-0 | 100 lb | - | RQ 100 lb final RQ<br>RQ 45.4 kg final RQ |

**US State Regulations**

**California Proposition 65**

This product contains the following Proposition 65 chemicals.

| Chemical Name | California Proposition 65 |
|---|---|
| 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 | X | X | - | - |
| Carbon<br>7440-44-0 | - | - | X | - | - |
| Dimethyl carbonate<br>616-38-6 | X | X | X | - | - |
| Copper<br>7440-50-8 | X | X | X | X | X |
| Lithium Cobalt Oxide ($LiCoO_2$)<br>12190-79-3 | X | - | X | X | X |
| Nickel<br>7440-02-0 | X | X | X | X | X |
| Aluminum<br>7429-90-5 | X | X | X | X | - |

**International Regulations**

**Mexico**

**National occupational exposure limits**

| Component | Carcinogen Status | Exposure Limits |
|---|---|---|
| Graphite<br>7782-42-5 (20.2%) | - | Mexico: TWA= 2 mg/m³ |
| Copper<br>7440-50-8 (7.2%) | - | Mexico: TWA= 1 mg/m³<br>Mexico: TWA= 0.2 mg/m³<br>Mexico: STEL= 2 mg/m³ |
| Nickel<br>7440-02-0 (0.3%) | - | Mexico: TWA 1 mg/m³ |
| Aluminum<br>7429-90-5 (4%) | - | Mexico: TWA= 10 mg/m³ |

*Mexico - Occupational Exposure Limits - Carcinogens*

**Canada**

**WHMIS Hazard Class**

Non-controlled

## Section 16 - Other Information

| | | | | |
|---|---|---|---|---|
| **NFPA** | **Health Hazards** 1 | **Flammability** 0 | **Instability** 1 | **Physical and Chemical Hazards** - **Personal Protection** X |
| **HMIS** | **Health Hazards** 4 | **Flammability** 0 | **Physical Hazard** 1 | |

**Revision Note:** No information available

**Disclaimer**

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**--End of Safety Data Sheet--**