

SAFETY DATA SHEET

| | Report No.: | CMC241029073M01 | | |
|-------------|---|--|--|--|
| | Name of sample: | Cylindrical Lithium Ion Battery | | |
| | Model: | INR18650-2500-2S1P | | |
| | Туре: | 7.2V 2500mAh 18Wh | | |
| | Client: | Dongguan Golden CEL Battery Co., Ltd. | | |
| | Address: | No.11, Yinhu Industrial park, JiaoYiTang Management Zone, TangXia, DongGuan, GuangDong, P.R. China | | |
| | | | | |
| | Written: Grol | Tiong the I Approved: Dom he Dy Lach Dou | | |
| | Reviewed: | 2025.01.01 Seal of CMC: | | |
| | Date of issue: 2 | 2025.01.01 Seal of CMC: | | |
| | CMC Tes | sting International (Shenzhen) Co., Ltd. | | |
| The suppl | ier identified below generated this SDS u | sing the CMC SDS template. CMC did not test, certify, or approve the substance described in this SDS, | | |
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| represent | ations or warranties regarding the comple | eteness or accuracy of the information in this SDS and disclaims all liability in connection with the use of | | |
| this inform | nation or the substance described in this s | SDS. | | |

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Safety Data Sheet

| Section 1 Identification of | f the Subate | neo/Droporation and | of the Company/I Inde | ortoking | |
|--|--|--|------------------------------|-------------------------------------|--|
| Section 1- Identification of (a) Product identifier | | | of the Company/Onde | лакту | |
| | | | Weight | 96.7g | |
| Name of Sample | Cylindrical | I Lithium Ion Battery | Size (L×W×T) | (70.0×38.0×19.5) mm | |
| Model | INR18650 | -2500-2 <mark>S1P</mark> | SIZE (LAWAT) | (70.0^30.0^19.3) mm | |
| (b) Other means of identif | | 2000-2011 | | | |
| Synonyms: | None | | | | |
| © Recommended use of t | | | | | |
| | | | se | | |
| Recommended use: | | ON BATTERIES | | | |
| Restriction on use: | No informa | ation available. | | | |
| (d) Details of the supplier | of the produ | ıct | | | |
| Manufacturer | Dongguan | Golden CEL Battery | Co., Ltd. | | |
| Manufacturer's Address | | No.11, Yinhu Industrial park, JiaoYiTang Management Zone, TangXia, DongGuan, GuangDong, P.R. China | | | |
| Contact Person | Mr. Zhi | Mr. Zhi | | | |
| E-mail | zhirongjiar | zhirongjian@celbattery.com | | | |
| Telephone: | +86-769-8 | +86-769-82195308-8016 | | | |
| Fax: | +86-769-8 | 7982226 | | | |
| © Emergency phone number | +86-769-8 | 2195308-8016 | | | |
| | | | | | |
| Section 2- Hazards Identif | fication | | | | |
| (a) Classification | | | | | |
| This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR | | | | | |
| 1910.1200) This prod <mark>uct is an article</mark> which is a sealed battery and as such does not require an MSDS per the | | | | | |
| OSHA hazard communica | ation standa | rd unless ruptured. Th | ne hazards indicated a | are for a ruptured battery. | |
| Acute toxicity – Oral Category 4 | | | | | |
| Acute toxicity – Dermal | (| Category 3 | | | |
| Skin corrosion/irritation | (| Category 1 Sub-categ | ory B | | |
| Serious eye damage/eye | Serious eye damage/eye irritation Category 1 | | | | |
| | I | | ly, Shajing Street, Bao'an C | District, Shenzhen, Guangdong, Chin | |

400-1668-320



| - | | | | | | |
|--|---|--|--|--|--|--|
| Specific target organ toxicity (repeated exposure) | Category 1 | | | | | |
| Carcinogenicity | Category 2 | | | | | |
| Skin sensitization Category 1 | | | | | | |
| (b) GHS Label elements, including precautionary statements | | | | | | |
| | Emergency Overview | | | | | |
| Signal word: Danger | | | | | | |
| Hazard Statements | | | | | | |
| Harmful if swallowed | | | | | | |
| Causes severe skin burns and eye | e damage | | | | | |
| May cause an allergic skin reactio | n | | | | | |
| Suspected of causing cancer | | | | | | |
| Causes damage to organs throug | h prolonged or repeated exposure | | | | | |
| | | | | | | |
| article as sold. Intended use of the battery. In case of rupture: the abo | ontains a chemical substance. Safety information is given for exposure to the e product should not result in exposure to the chemical substance This is a ove hazards exist. Physical State Solid Odor Odorless | | | | | |
| article as sold. Intended use of the battery. In case of rupture: the abo | e product should not result in exposure to the chemical substance This is a ove hazards exist. Physical State Solid Odor Odorless Obtain special instructions before use | | | | | |
| article as sold. Intended use of the battery. In case of rupture: the abo | e product should not result in exposure to the chemical substance This is a ove hazards exist. Physical State Solid Odor Odorless Obtain special instructions before use Do not handle until all safety precautions have been read and understood | | | | | |
| article as sold. Intended use of the battery. In case of rupture: the abo | e product should not result in exposure to the chemical substance This is a ove hazards exist. Physical State Solid Odor Odorless Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required | | | | | |
| article as sold. Intended use of the battery. In case of rupture: the abo Appearance Blue P | e product should not result in exposure to the chemical substance This is a ove hazards exist. Physical State Solid Odor Odorless Obtain special instructions before use Do not handle until all safety precautions have been read and understood | | | | | |
| article as sold. Intended use of the battery. In case of rupture: the above of Appearance Blue P Precautionary Statements- | e product should not result in exposure to the chemical substance This is a over hazards exist. Physical State Solid Odor Odorless Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Wash face, hands and any exposed skin thoroughly after handling Do not breathe dust/fume/gas/mist/vapors/spray Do not eat, drink or smoke when using this product | | | | | |
| article as sold. Intended use of the battery. In case of rupture: the above of Appearance Blue P Precautionary Statements- | e product should not result in exposure to the chemical substance This is a ove hazards exist. Physical State Solid Odor Odorless Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Wash face, hands and any exposed skin thoroughly after handling Do not breathe dust/fume/gas/mist/vapors/spray | | | | | |
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| article as sold. Intended use of the battery. In case of rupture: the above of Appearance Blue P Precautionary Statements- Prevention Precautionary Statements- | e product should not result in exposure to the chemical substance This is a ove hazards exist. Physical State Solid Odor Odorless Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Wash face, hands and any exposed skin thoroughly after handling Do not breathe dust/fume/gas/mist/vapors/spray Do not eat, drink or smoke when using this product Contaminated work clothing should not be allowed out of the workplace Wear protective gloves IF EXPOSED OR CONNECTED: Get medical advice/attention. Specific treatment (see supplemental first aid/instruction on this label). 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. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and water before reuse, if skin irritation or rash occurs: get | | | | | |
| article as sold. Intended use of the battery. In case of rupture: the above of Appearance Blue P Precautionary Statements- Prevention Precautionary Statements- | Product should not result in exposure to the chemical substance This is a over hazards exist. Prysical State Solid Odor Odorless Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Wash face, hands and any exposed skin thoroughly after handling Do not breathe dust/fume/gas/mist/vapors/spray Do not eat, drink or smoke when using this product Contaminated work clothing should not be allowed out of the workplace Wear protective gloves IF EXPOSED OR CONNECTED: Get medical advice/attention. Specific treatment (see supplemental first aid/instruction on this label). 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. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and water before reuse, if skin irritation or rash occurs: get medical advice/attention if feel unwell. IF INHALATION: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing | | | | | |
| article as sold. Intended use of the battery. In case of rupture: the above of Appearance Blue P Precautionary Statements- Prevention Precautionary Statements- Response | e product should not result in exposure to the chemical substance This is a over hazards exist. Physical State Solid Odor Odor Odorless Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Wash face, hands and any exposed skin thoroughly after handling Do not breathe dust/fume/gas/mist/vapors/spray Do not eat, drink or smoke when using this product Contaminated work clothing should not be allowed out of the workplace Wear protective gloves IF EXPOSED OR CONNECTED: Get medical advice/attention. Specific treatment (see supplemental first aid/instruction on this label). 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. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and water before reuse, if skin irritation or rash occurs: get medical advice/attention if feel unwell. IF INHALATION: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or doctor/physician. | | | | | |

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| Store locked up |
|---|
| Dispose of contents/container to an approved waste disposal plant |
| Not applicable |
| |
| Very toxic to aquatic life with long lasting effects; Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. |
| No information available. |
| |

Section 3- Composition/Information on Ingredients

| Chemical Name | CA <mark>S Number</mark> | Weight-% | Trade Secret |
|--|--------------------------|----------|--------------|
| Cobalt lithium manganese nickel oxide | 182442-95-1 | 35.5 | * |
| Carbon Black | 1333-86-4 | 1.44 | * |
| Polyvinylidene Fluoride (PVDF) | 24937-79-9 | 0.7 | * |
| Grap <mark>hite</mark> | 7782-42-5 | 20.6 | * |
| Carboxymeth <mark>yl cellulose</mark> | 9004-32-4 | 0.39 | * |
| Styrene-butadiene rubber (SBR) | 9003-55-8 | 0.49 | * |
| Polyeth <mark>ylene</mark> | 9002-88-4 | 2.24 | * |
| Phosphate(1-), hexafluoro-, lithium | 21324-40-3 | 18.38 | * |
| Copp <mark>er</mark> | 7440-50-8 | 9.34 | * |
| Alumini <mark>um</mark> | 7429-90-5 | 3.39 | * |
| Nickel | 7440-02-0 | 0.43 | * |
| Iron | 7439-89-6 | 5.1 | * |
| PVC (Chloroethylene, polymer) | 9002-86-2 | 2.0 | * |

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

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Section 4- First Aid Measures

| (a) Description of first | t 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 me attention/advice. | | | | | |
| Skin contact: | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Immediate medical attention is required. May cause an allergic skin reaction. Remove and isolate contaminated clothing and shoes. | | | | |
| 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: | Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wear personal protective clothing (see section 8). | | | | |
| (b) Most importan <mark>t sy</mark> | mptoms/effects, acute and delayed | | | | |
| Most important symptoms and effec <mark>ts:</mark> | Itching. Coughing and/ or wheezing. Burning sensation. | | | | |
| © Indication of an <mark>y in</mark> | nmediate medical attention and special treatment needed | | | | |
| Notes to Physician | Treat symptomatically. May cause sensitization of susceptible persons. | | | | |
| | | | | | |
| Section 5- Fire Fighting I | Measures | | | | |
| (a) Extinguishing <mark>med</mark> | Jia | | | | |
| Suitable extinguishin <mark>g</mark> | Use extinguishing measures that are appropriate to local circumstances and the | | | | |
| media: | surrounding environment. | | | | |
| Unsuitable extinguishing media: | CAUTION: Use of water spray when fighting fire may be inefficient. | | | | |
| (b) Special hazards arising from the chemical | | | | | |
| The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors. Product is or contains a sensitizer. May cause sensitization by skin contact. | | | | | |
| Hazardous Combustion Products | Carbon oxides. | | | | |
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| CMC TESTIN 众检检马 | IG 佥 | Report | No.: CMC241029073M01 | | | | |
|---|--|---|--|--|--|--|--|
| | Sensitivity to Mechanical I | · · · | No. | | | | |
| Explosion Data | Sensitivity to Static Discharge: | | No. | | | | |
| © Spacial protactive of | - | - | | | | | |
| | © Special protective equipment and precautions for fire-fighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or | | | | | | |
| equivalent) and full prote | | I , , , | | | | | |
| | | | | | | | |
| Section 6- Accidental Re | elease Measures | | | | | | |
| (a) Personal precaution | ons, protective equipmen | it and emergency procedure | es | | | | |
| Personal Precautions: | | res or clothing. Ensure adequat equired. Evacuate personnel to spill/leak. | | | | | |
| Other Information: | Refer to protective measured | res listed in Sections 7 and 8. | | | | | |
| (b) Environmental Pre | cautions | | | | | | |
| Refer to protective meas | sures listed in Sections 7 an | d 8. Prevent further leakage or | spillage if safe to do so. | | | | |
| | ials for containment and | cleaning up | | | | | |
| Methods for Containment | Prevent further leakage or sp | illage if safe to do so. | | | | | |
| Methods for cleaning up | Methods for cleaning Pick up and transfer to properly labeled containers. | | | | | | |
| | | | | | | | |
| Section 7- Handling and | Storage | | | | | | |
| (a) Precautions fo <mark>r sa</mark> | fe handling | | | | | | |
| | | <mark>good indus</mark> trial hy <mark>giene an</mark> d sa | | | | | |
| Handling: | adequate ventilation. Do n | nent. Avoid contact with skin, e ot eat, drink or smoke when us | | | | | |
| (b) Conditions for saf | contaminated clothing and e storage, including any | | | | | | |
| Storage: | Keep containers tightly clo | sed in a dry, cool and well-vent | tilated place. Store locked | | | | |
| Incompatible Products: | up. Keep out of the reach Acids. Bases. Oxidizing ag | | | | | | |
| | Noide. Babbe. Oxidizing de | Jonn. | | | | | |
| Section 8 – Exposure Controls/Personal Protection | | | | | | | |
| (a) Control parame <mark>ters</mark> | | | | | | | |
| Exposure Guideline <mark>s</mark> | and the second sec | | | | | | |
| Exposure Guidelines | ACGIH TLV | OSHA PEL | NIOSH IDLH | | | | |
| Graphite 7782-42-5 | TWA:1mg/m³ respirable fraction all forms except graphite fibers | TWA: 15 mg/m ³ total dust synthetic TWA: 5 mg/m ³ respirable fraction Synthetic (vacated) TWA: 2.5 mg/m ³ respirable dust natural (vacated) TWA: 10 mg/m ³ total dust synthetic (vacated) TWA: 5 mg/m ³ | IDLH: 1250 mg/m³ TWA: 2.5 mg/m³ respirable dust | | | | |

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synthetic (vacated) TWA: 5 mg/m³



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|--|-----------------------------|---|--|---|--|--|
| | | | respirable fraction synthetic TWA: 15 mppcf natural | | | |
| Phosphate(1-), hexafluoro-, TWA:2. lithium 21324-40-3 | | .5mg/m³ F | TWA:2.5mg/m³ F TWA:2.5mg/m³ dust (vacated)TWA:2.5mg/m³ | | | |
| Copper 7440-50-8 | | | TWA:0.1mg/m³fume TWA:1mg/m³dust and mist (vacated) TWA:0.1mg/m³Cu dust,fume,mist | IDLH:100mg/m³dust ,fume and mist TWA:1mg/m³dust and mist TWA:0.1mg/m³ fume | | |
| Aluminum TWA:1 7429-90-5 fraction | | mg/m³ respirable | TWA:15mg/m ³ total dust TWA:5mg/m ³ respirable fraction (vacated) TWA:15mg/m ³ total dust (vacated) TWA:5mg/m ³ respirable fraction(vacated) TWA:5mg/m ³ AL Aluminum | TWA:10mg/m ³ total dust TWA:5mg/m ³ respirable dust | | |
| Nickel 7440-02-0 | TWA:1 | .5mg/m³ | TWA:1mg/m ³ (vacated) TWA:1 mg/m ³ | IDLH:10mg/m ³ TWA:0.015mg/m ³ | | |
| Other Exposure Guidelin | ies | | ked by the Court of Appeals de Cir., 1992) See section 15 for n | | | |
| (b) Appropriate engine | eering | | | | | |
| Engineering Measur <mark>es</mark> | | Showers Eyewash stations Ventilation systems | | | | |
| © Individual protectio | n mea | sures, such as per | rsonal protective equipment | t. | | |
| Eye/Face Protection: | | None required for co safety goggles. Face | onsumer use. If there is a Haza | ard of contact:. Tight sealing | | |
| Skin and Body Protection | n: | | None required for consumer use. If there is a Hazard of contact:. Wear protective gloves and protective clothing. | | | |
| | | om <mark>ent is needed under normal use conditions. If exposure l or irritation is experienced, ventilation and evacuation may</mark> | | | | |
| Handle in accordate eat, drink or smoke and wash before resultable gloves and not be allowed out | | ce with good industrial hygiene when using this product. Take use. Avoid contact with skin, ey eye/face protection. Contamina of the workplace. Regular clean mmended. Wash hands before | off contaminated clothing yes or clothing. Wear ated work clothing should ing of equipment, work area | | | |



| (a) Physical StatePhysical state:SolidAppearance:Blue Cub | oid | | | | | | | | | | |
|---|---------------------------------|-----------------|------------|--------------------------|--|--|--|--|--|--|--|
| | void | | | (a) Physical State | | | | | | | |
| Appearance: Rlue Cub | oid | | Solid | | | | | | | | |
| Appearance: Blue Cub | | Odor: | | Odorless | | | | | | | |
| Color: Blue | | Odor Threshold: | | No information available | | | | | | | |
| (b) Chemical Properties | | | | | | | | | | | |
| Property | Values | | Remark | s/ Method | | | | | | | |
| рН | No data available | | None kn | own | | | | | | | |
| Melting point/freezing point | No data available | | None kn | own | | | | | | | |
| Initial Boiling Point And Boiling Range | No data available | | None kn | own | | | | | | | |
| Flash Point | No data available | | None kn | None known | | | | | | | |
| Evaporation Rate | No data available | | None known | | | | | | | | |
| Flammability (Solid, Gas) | No data ava <mark>ilable</mark> | | None known | | | | | | | | |
| Upper/Lower Flammability Or Explosive Limits | No data available | | | | | | | | | | |
| Vapor Pressure | No data available | | None kn | own | | | | | | | |
| Vapor Density | No data available | | None kn | own | | | | | | | |
| Relative Density | No data available | | None kn | own | | | | | | | |
| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | Insoluble in water | | None kn | own | | | | | | | |
| Partition Coefficient: N-Octanol/Water | No data available | | None kn | lown | | | | | | | |
| Auto-Ignition Temperature | No data available | | None kn | own | | | | | | | |
| Decomposition Tem <mark>perature</mark> | No data available | | None kn | own | | | | | | | |
| Kinematic viscosity | No data available | | None known | | | | | | | | |
| Dynamic viscosity | No data available | | None known | | | | | | | | |
| Explosive properties | No data available | | | | | | | | | | |
| Oxidizing Properties | No data available | | | | | | | | | | |
| © Other Information | | | | | | | | | | | |
| 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 | | | | | | |
|--|--|--|--|--|--|--|
| (a) Reactivity | No data available. | | | | | |
| (b) Chemical stability | Stable under recommended storage conditions. | | | | | |
| © Possibility of hazardous reactions | None under normal processing. | | | | | |
| (d) Hazardous polymerization does not occur. | | | | | | |
| © Conditions to avoid | None known based on information supplied. | | | | | |
| (f) Hazardous decomposition products | Carbon oxides. | | | | | |
| | | | | | | |
| Section 11 – Toxicologi | cal Information | | | | | |
| (a) Information on th | e likely routes of expos <mark>ure</mark> | | | | | |
| 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. 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. Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be harmful if swallowed. | | | | | |
| Component Information | on | | | | | |
| Chemical Name | Oral LD50 Dermal LD50 Inhalation LC50 | | | | | |
| Graphite 7782-42-5 | > 10000 mg/kg (Rat) | | | | | |
| Nickel 7440-02-0 | >9000 mg/kg (Rat) | | | | | |
| (b) Information on to | (b) Information on toxicological effects | | | | | |
| Symptoms | Symptoms Erythema (skin redness). May cause redness and tearing of the eyes. Itching. Rashes. Hives. | | | | | |
| © Delayed and imme | diate effects as well as chronic effects from short and long-term exposure | | | | | |
| Sensitization: | May cause sensitization of suscentible persons. May cause sensitization by skin | | | | | |
| Mutagenic Effects: No information available. | | | | | | |

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| Chemical Name | ACGIH | IARC | NTP | OSHA | |
|---|---|---|---|-----------------------------------|--|
| Nickel 7440-02-0 | | Group 2B F | Reasonably Anticipated | Х | |
| PVC (Chloroethylene, polymer) 9002-86-2 | | Group 3 | | | |
| ACGIH (American Conferen A3 – Animal Carcinogen IARC (International Agency Group 2B – Possibly Carcino Group 3 – Not Classifiable as NTP (National Toxicology R Reasonably Anticipated – Re OSHA (Occupational Safety X – Present | r for Research on Cancer) ogenic to Humans s to Carcinogenicity in Huma Program) easonably Anticipated to be a | ns | _abor) | R | |
| Reproductive Toxicity | No information av | ailable. | | | |
| STOT – single exposur | e No information av | vailable. | | | |
| STOT – repeated exposure | classification crite CFR 1910.1200), organ toxicity from | to o <mark>rgans through prolo</mark> eria from the 2012 OSH/ this product has been o n chronic or repeated ex | A Hazard Communicati determined to cause sy xposure. (STOT RE). | on Standard (29 stemic target | |
| 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 Eves Skin Gastrointestinal tract (GI) Central Vascular | | | | |
| Aspiration Hazard | No information av | ailable. | | | |
| (d) Numerical measu | res of toxicity Produ | uct Information | | 1 | |
| The following values ar | e calculated based on | ATEmix (oral | I): | | |
| chapter 3.1 of the GHS | document | ATEmix (der | mal): | | |
| | | | | | |
| Section 12-Ecological I | nformation | | | | |
| (a) Ecotoxicity | | | | | |
| Very toxic to aquatic lif <mark>e</mark> v | <mark>vith long lasting ef</mark> fects. | | | | |
| Chemical Name | Toxicity to Algae | Toxicity to Fish | Toxicity to Microorganism | Daphnia Magna s (Water Flea | |
| Copper 7440-50-8 | 96h EC50: 0.031 – 0.054 mg/L (Pseudokirchneriell subcapitata) 72h EC50: 0.0426 – 0.0535 mg/L (Pseudokirchneriella subcapitata) | | las) - inus | 48h EC50: = 0.0 mg/L | |



| | | | • | |
|--------------------------------------|---------------------------|----------------------------|---|-----------------|
| | | (Lepomis macrochirus) 96h | | |
| | | LC50: =0.052 mg/L | | |
| | | (Oncorhynchus mykiss) 96h | | |
| | | LC50: = 0.2mg/L | | |
| | | (Pimephales promelas) | | |
| | | 96h LC50: < 0.3 mg/L | | |
| | | (Pimephales promelas) | | |
| Nickel | 72h EC50: = 0.18 mg/L | 96h LC50: > 100 mg/L | | 48h EC50: > 100 |
| 7440-02-0 | (Pseudokirchneriella | (Brachydanio rerio) 96h | | mg/L 48h EC50: |
| | subcapitata) 96h EC50: | LC50: = 1.3 mg/L (Cyprinus | | = 1 mg/L |
| | 0.174 – 0.311 mg/L | carpio) 96h LC50: = 10.4 | | |
| | (Pseudokirchneriella | mg/L (Cyprinus carpio) | | |
| | subcapitata) | | | |
| (b) Persistence and Degradability | No information available. | | | |
| © Bioaccumulation | No information available | | | |
| (d) Other adverse effects | No information available. | | | |
| | | | | |

Section 13 – Disposal Considerations

| (a) Waste treatmer | nt m | ethods | | | | | | |
|----------------------------|---|--|-------------|-----------------------------------|--|---------------------------|--|--|
| Disposal methods: | (40 CFR 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: | | Disposal should be and regulations. | e in accord | dance with appli | c <mark>able regio</mark> nal, nationa | l and local laws | | |
| Chemical Name | | RCRA | RC | RA – Basis for Listing | RCRA – D Series Wastes | RCRA – U Series Wastes | | |
| Nickel 7440-02-0 | | (hazardous constituent no waste number) | | luded in waste ims: F006, F039 | | | | |
| California Hazardo | us V | , | 3166 | | | | | |
| This product contain | s on | e or more substance | es that are | listed with the S | State of California as a | hazardous waste. | | |
| | Chen | nical Name | | | California Hazardous Wa | ste | | |
| | | Copper 440-50-8 | | | Toxic | | | |
| | | uminum 29-90-5 | | | Ignitable powder | | | |
| | | Nickel 140-02-0 | | | Toxic powder Ignitable powder | | | |
| | | | | | | | | |



| Section 14 – Transport I | nformation | | | | |
|--------------------------|--|---------------------------|--|--|--|
| UN number | UN3480 Lithium ion batteries (inclu of 30% SoC). | uding lithium ion polymer | batteries) (limited to a maximum | | |
| Hazard Class: | Class 9 | Packing grade: | / | | |
| UN number | UN3481 Lithium ion batteries pack or; Lithium ion batteries conta batteries). | | ling lithium ion polymer batteries) uding lithium ion polymer | | |
| Hazard Class: | 1 | Packing grade: | 1 | | |
| • | ch a user needs to be aware hin or outside their premise | | <i>i</i> th, in connection with transport | | |
| ICAO / IATA: | Can be shipped by air in accordance with International Civil Aviation Organization (ICAO), TI or International Air Transport Association (IATA), DGR Packing Instructions (PI) 965 Section IB, PI 966 Section II and PI 967 Section II appropriate of IATA DGR 66th (2025 Edition) for transportation. | | | | |
| IMDG CODE: | The batteries are not rest to special provision 188. | ricted to IMDG Code 2022 | 2 Edition (Amdt 41-22) according | | |
| UN number | UN3480 Lithium ion batteries (inclu UN3481 Lithium ion batteries pack or; Lithium ion batteries conta batteries). | ed with equipment (incluc | ling lithium ion polymer batteries) | | |
| Hazard Class: | 1 | Packing grade: | 1 | | |
| EmS No. | F-A S-I | | | | |
| ADR/ ADN: | The batteries are not sub Commission for Europe (special provision 188 of C | JNECE) ADR/ADN if they | meet the requirements of | | |
| | | | ist have passed the applicable patteries should be well protected | | |
| | | | | | |



Section 15 – Regulatory Information

| (a) International Inventories | |
|-------------------------------|-----------|
| TSCA: | Complies. |

| 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

(b) US Federal Regulations

SARA 313

DSL:

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 | 9.34 | 1.0 |
| Aluminum | 7429-90-5 | 3.39 | 1.0 |
| Nickel | 7440-02-0 | 0.43 | 0.1 |

| SARA 311/312 Hazard Categories | |
|-------------------------------------|----|
| Acute Health Hazard | No |
| Chronic Health Haza <mark>rd</mark> | 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 | 5000 lb | | RQ 5000 lb final RQ |
| 7440-50-8 | di 0006 | | RQ 2270 kg final RQ |
| Aluminum | | | |
| 7429-90-5 | | | |
| Nickel | 100 lb | | RQ 100 lb final RQ |
| 7440-02-0 | 100 lb | | RQ 45.4 kg final RQ |
| | | | |

(c) US State Regulations

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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 7782-42-5 | x | x | X | | |
| Copper 7440-50-8 | x | × | x | x | x |
| Aluminum 7429-90-5 | | x | | × | N |
| Nickel 7440-02-0 | x | х | X | x | x |

(d) International Regulations

Mexico

National occupational exposure limits

| Compon <mark>ent</mark> | Carcinogen Status | Exposure Limits |
|--|--|--|
| Graphit <mark>e</mark> | | Mexico: TWA= 2 mg/m3 |
| 7782-42 <mark>-5</mark> | | |
| Coppe <mark>r</mark> | | Mexico: TWA= 1 mg/m3 |
| 7440-50-8 | | Mexico: TWA= 0.2 mg/m3 |
| | | Mexico: STEL= 2 mg/m3 |
| Aluminum | | Mexico: TWA 10 mg/m3 |
| 7429-90 <mark>-5</mark> | | |
| Nickel | | Mexico: TWA <mark>= 1 mg/m</mark> 3 |
| 7440-02 <mark>-0</mark> | | |
| Mexico - Occupational Exposure Limits - Ca | arcinogens | |
| Canada | | |
| WHMIS Hazard Class | | |
| Non-controlled | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
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| | | |
| | | |
| | | |
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| | / laantion al mi | formation | | | | | | |
|---|---|---|---|---|---|---------------------------|---|-------------------------|
| NFPA | Health Hazards | 1 | Flammability | 0 | Instability | 0 | Physical and Chemical Hazards | - |
| HMIS | Health Hazards | 0 | Flammability | 0 | Physical Hazard | 0 | Personal Protection | x |
| Revision No | te: No | o informat | ion available | | | · | | |
| Sample pho | oto: | | | | | | | |
| | tion pro <mark>vided i</mark> | in this Saf | | | t to the best of o | 0 ur knov | wledge, information and | IIII Co Co IIII |
| use, process specification | sing, sto <mark>rage, t</mark> . The in <mark>forma</mark> | transporta tion relate | ation, disposal and | ven is o d releas cific ma | designed only as se and is not to b terial design <mark>ated</mark> | a guic e cons and m | lance for safe handling, idered a warranty or qu nay not be valid for such | , alit <u>y</u> |
| use, process specification | sing, sto <mark>rage, t</mark> . The in <mark>forma</mark> | transporta tion relate | ation, disposal and s only to the spec | ven is o d releas cific ma s or in a | designed only as se and is not to b terial designated any process, unle | a guic e cons and m | lance for safe handling, idered a warranty or qu nay not be valid for such | , ality |
| use, process specification material use | sing, storage, s i. The informa d in combinat | transporta tion relate ion with a | ation, disposal and es only to the spec ny other materials ******End c | ting Inter | designed only as se and is not to b terial designated any process, unle ort****** | co., Ltd | lance for safe handling, idered a warranty or qua hay not be valid for such ecified in the text. | , alit <u>i</u> h |