

SAFETY DATA SHEET

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NGHS / English



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1. IDENTIFICATION

Product identifier

Product Name ONEPWR 4.0Ah Lithium-Ion Battery

Other means of identification

Product Code(s) 1515941

Recommended use of the chemical and restrictions on use

Recommended Use LITHIUM ION BATTERIES

Restrictions on use No information available

Details of the supplier of the safety data sheet

Supplier Identification TTi Floorcare

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2. HAZARDS IDENTIFICATION

Classification

Acute toxicity - Oral

Category 4



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

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

Appearance Yellow

Physical state Solid

Odor Pleasant

GHS Label elements, including precautionary statements

Danger

Hazard statements

Harmful if swallowed
 Harmful in contact with skin
 Causes skin irritation
 Causes serious eye damage
 May cause an allergic skin reaction
 May cause cancer
 May damage fertility or the unborn child
 Causes damage to organs through prolonged or repeated exposure



Precautionary Statements - Prevention

Obtain special instructions before use
 Do not handle until all safety precautions have been read and understood
 Wear protective gloves/protective clothing/eye protection/face protection
 Wash face, hands and any exposed skin thoroughly after handling
 Do not eat, drink or smoke when using this product
 Contaminated work clothing must not be allowed out of the workplace
 Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention
 Specific treatment (see supplemental first aid instructions on this label)

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 Immediately call a POISON CENTER or doctor

Skin

IF ON SKIN: Wash with plenty of water and soap
 Call a POISON CENTER or doctor if you feel unwell
 Take off contaminated clothing and wash it before reuse
 If skin irritation or rash occurs: Get medical advice/attention

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell

Rinse mouth

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other information

Very toxic to aquatic life with long lasting effects.

Unknown acute toxicity 91 % of the mixture consists of ingredient(s) of unknown toxicity

74 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

88 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

91 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

91 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

91 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not applicable.

Mixture

| Chemical name | CAS No. | Weight-% | Hazardous Material Information Review Act registry number (HMIRA registry #) | Date HMIRA filed and date exemption granted (if applicable) |
|--|------------|----------|--|---|
| Graphite | 7782-42-5 | 20 | - | - |
| Copper | 7440-50-8 | 15 | - | - |
| Iron | 7439-89-6 | 10 | - | - |
| Lithium Cobalt Oxide (CoLiO ₂) | 12190-79-3 | 5 | - | - |
| Aluminum | 7429-90-5 | 5 | - | - |
| Phosphate(1-), hexafluoro-, lithium | 21324-40-3 | 3 | - | - |
| Nickel | 7440-02-0 | 1 | - | - |
| Methyl propionate | 554-12-1 | 1 | - | - |
| Ethylbenzene | 100-41-4 | 1 | - | - |
| Chromium | 7440-47-3 | 1 | - | - |
| 1-Methyl-2-pyrrolidone | 872-50-4 | 1 | - | - |
| Carbon black | 1333-86-4 | 0.1 | - | - |

4. FIRST AID MEASURES

First aid measures

General advice

First aid is upon rupture of sealed battery. Show this safety data sheet to the doctor in attendance. Immediate medical attention is required. IF exposed or concerned: Get medical advice/attention.

Inhalation

Remove to fresh air. Get medical attention immediately if symptoms occur.



| | |
|---|--|
| Eye contact | Get immediate medical advice/attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. |
| Skin contact | Wash off immediately with soap and plenty of water for at least 15 minutes. May cause an allergic skin reaction. If symptoms persist, call a physician. |
| Ingestion | Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician. |
| 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. Wear personal protective clothing (see section 8). Avoid contact with skin, eyes or clothing. |

Most important symptoms and effects, both acute and delayed

Symptoms Burning sensation. Itching. Rashes. Hives.

Indication of any immediate medical attention and special treatment needed

Note to physicians May cause sensitization in susceptible persons. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

| | |
|---|--|
| Suitable Extinguishing Media | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Large Fire | CAUTION: Use of water spray when fighting fire may be inefficient. |
| Unsuitable extinguishing media | Do not scatter spilled material with high pressure water streams. |
| 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 | None. |
| Sensitivity to Static Discharge | None. |
| Special protective equipment for fire-fighters | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. |

6. ACCIDENTAL RELEASE MEASURES

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. Keep people away from and upwind of spill/leak. |
| Other Information | Refer to protective measures listed in Sections 7 and 8. |

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

Advice on safe handling

In case of rupture: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Do not eat, drink or smoke when using this product. In case of insufficient ventilation, wear suitable respiratory equipment. Take off contaminated clothing and wash before reuse. Remove contaminated clothing and shoes.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Store locked up.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|--|---|--|--|
| Graphite 7782-42-5 | TWA: 2 mg/m ³ respirable particulate matter 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 respirable fraction synthetic TWA: 15 mppcf natural | IDLH: 1250 mg/m ³ TWA: 2.5 mg/m ³ respirable dust |
| Copper 7440-50-8 | TWA: 0.2 mg/m ³ fume | TWA: 0.1 mg/m ³ fume TWA: 1 mg/m ³ dust and mist (vacated) TWA: 0.1 mg/m ³ Cu dust, fume, mist | IDLH: 100 mg/m ³ dust, fume and mist TWA: 1 mg/m ³ dust and mist TWA: 0.1 mg/m ³ fume |
| Lithium Cobalt Oxide (CoLiO ₂) 12190-79-3 | TWA: 0.02 mg/m ³ | - | |
| Aluminum 7429-90-5 | TWA: 1 mg/m ³ respirable particulate matter | TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction (vacated) TWA: 15 mg/m ³ total dust (vacated) TWA: 5 mg/m ³ respirable fraction | TWA: 10 mg/m ³ total dust TWA: 5 mg/m ³ respirable dust |
| Phosphate(1-), hexafluoro-, lithium | TWA: 2.5 mg/m ³ F | TWA: 2.5 mg/m ³ F (vacated) TWA: 2.5 mg/m ³ | IDLH: 250 mg/m ³ F |

| | | | | |
|---|--|--|--|---|
| 21324-40-3 | | | | |
| Nickel 7440-02-0 | TWA: 1.5 mg/m ³ | | TWA: 1 mg/m ³ (vacated) TWA: 1 mg/m ³ | IDLH: 10 mg/m ³ TWA: 0.015 mg/m ³ |
| Ethylbenzene 100-41-4 | STEL = 125 ppm TWA: 100 ppm | | TWA: 100 ppm TWA: 435 mg/m ³ (vacated) TWA: 100 ppm (vacated) TWA: 435 mg/m ³ (vacated) STEL: 125 ppm (vacated) STEL: 545 mg/m ³ | IDLH: 800 ppm 10% LEL TWA: 100 ppm TWA: 435 mg/m ³ STEL: 545 mg/m ³ STEL: 125 ppm |
| Chromium 7440-47-3 | TWA: 0.5 mg/m ³ inhalable particulate matter | | TWA: 1 mg/m ³ (vacated) TWA: 1 mg/m ³ | IDLH: 250 mg/m ³ TWA: 0.5 mg/m ³ |
| Carbon black 1333-86-4 | TWA: 3 mg/m ³ inhalable particulate matter | | TWA: 3.5 mg/m ³ (vacated) TWA: 3.5 mg/m ³ | IDLH: 1750 mg/m ³ TWA: 3.5 mg/m ³ TWA: 0.1 mg/m ³ Carbon black in presence of Polycyclic aromatic hydrocarbons PAH |
| Chemical name | Alberta | British Columbia | Ontario TWAEV | Quebec |
| Graphite 7782-42-5 | TWA: 2 mg/m ³ | TWA: 2 mg/m ³ | TWA: 2 mg/m ³ | TWA: 2 mg/m ³ |
| Copper 7440-50-8 | TWA: 0.2 mg/m ³ TWA: 1 mg/m ³ | TWA: 1 mg/m ³ TWA: 0.2 mg/m ³ | TWA: 0.2 mg/m ³ TWA: 1 mg/m ³ | TWA: 0.2 mg/m ³ TWA: 1 mg/m ³ |
| Lithium Cobalt Oxide (CoLiO ₂) 12190-79-3 | TWA: 0.02 mg/m ³ | TWA: 0.02 mg/m ³ | TWA: 0.02 mg/m ³ | TWA: 0.02 mg/m ³ |
| Aluminum 7429-90-5 | TWA: 10 mg/m ³ TWA: 5 mg/m ³ | TWA: 1.0 mg/m ³ | TWA: 1 mg/m ³ | TWA: 10 mg/m ³ TWA: 5 mg/m ³ |
| Phosphate(1-), hexafluoro-, lithium 21324-40-3 | TWA: 2.5 mg/m ³ | TWA: 2.5 mg/m ³ | TWA: 2.5 mg/m ³ | TWA: 2.5 mg/m ³ |
| Nickel 7440-02-0 | TWA: 1.5 mg/m ³ | TWA: 0.05 mg/m ³ | TWA: 1 mg/m ³ | TWA: 1 mg/m ³ |
| Ethylbenzene 100-41-4 | TWA: 100 ppm TWA: 434 mg/m ³ STEL: 125 ppm STEL: 543 mg/m ³ | TWA: 20 ppm | TWA: 20 ppm | TWA: 100 ppm TWA: 434 mg/m ³ STEL: 125 ppm STEL: 543 mg/m ³ |
| Chromium 7440-47-3 | TWA: 0.5 mg/m ³ | TWA: 0.5 mg/m ³ | TWA: 0.5 mg/m ³ | TWA: 0.5 mg/m ³ |
| 1-Methyl-2-pyrrolidone 872-50-4 | | | TWA: 400 mg/m ³ | |
| Carbon black 1333-86-4 | TWA: 3.5 mg/m ³ | TWA: 3 mg/m ³ | TWA: 3 mg/m ³ | TWA: 3.5 mg/m ³ |

Other Exposure Guidelines

Hexavalent Chrome may be formed during welding. 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 controls**

Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Tight sealing safety goggles.

Hand protection

Wear suitable gloves. Impervious gloves.

| | |
|---------------------------------------|--|
| Skin and body protection | Wear suitable protective clothing. Long sleeved clothing. |
| 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. |
| General hygiene considerations | 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. Wash hands before breaks and immediately after handling the product. |

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

| | |
|-----------------------|--------------------------|
| Physical state | Solid |
| Appearance | Yellow |
| Odor | Pleasant |
| Color | No information available |
| Odor Threshold | No information available |

| <u>Property</u> | <u>Values</u> | <u>Remarks</u> | <u>Method</u> |
|---|--------------------|----------------|---------------|
| 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 | | None known | |
| 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 | |
| Relative density | No data available | None known | |
| Water Solubility | Insoluble in water | | |
| Solubility(ies) | No data available | None known | |
| Partition coefficient: n-octanol/water | Not Determined | | |
| Autoignition temperature | No data available | None known | |
| Decomposition temperature | No data available | None known | |
| Kinematic viscosity | No data available | None known | |
| Dynamic viscosity | No data available | None known | |

Other Information

| | |
|-----------------------------------|--------------------------|
| Explosive properties | No information available |
| Oxidizing properties | No information available |
| Softening Point | No information available |
| Molecular Weight | No information available |
| VOC Content (%) | No information available |
| Liquid Density | No information available |
| Bulk Density | No information available |
| Particle Size | No information available |
| Particle Size Distribution | No information available |

10. STABILITY AND REACTIVITY

| | |
|---------------------------|---------------------------------|
| Reactivity | No information available. |
| Chemical stability | Stable under normal 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 bases. Strong oxidizing agents. |
| Hazardous Decomposition Products | Carbon oxides. |

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

| | |
|----------------------------|---|
| Product Information | Product does not present an acute toxicity hazard based on known or supplied information In case of rupture: |
| Inhalation | Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract. |
| Eye contact | Specific test data for the substance or mixture is not available. Causes serious eye damage. (based on components). Severely irritating to eyes. May cause burns. May cause irreversible damage to eyes. |
| Skin contact | Specific test data for the substance or mixture is not available. May cause sensitization by skin contact. Causes skin irritation. (based on components). Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. |
| Ingestion | Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Harmful if swallowed. (based on components). |

Information on toxicological effects

| | |
|-----------------|---|
| Symptoms | Redness. Burning. May cause blindness. Itching. Rashes. Hives. May cause redness and tearing of the eyes. |
|-----------------|---|

Numerical measures of toxicity

Acute Toxicity

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

| | |
|--------------------------------------|----------------|
| ATEmix (oral) | 901.30 mg/kg |
| ATEmix (dermal) | 1,177.60 mg/kg |
| ATEmix (inhalation-gas) | 20,250.00 mg/L |
| ATEmix (inhalation-dust/mist) | 6.75 mg/L |
| ATEmix (inhalation-vapor) | 49.50 mg/L |

| | |
|-------------------------------|--|
| Unknown acute toxicity | 91 % of the mixture consists of ingredient(s) of unknown toxicity |
| | 74 % of the mixture consists of ingredient(s) of unknown acute oral toxicity |
| | 88 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity |
| | 91 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas) |
| | 91 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor) |
| | 91 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist) |

Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|------------------------|-----------------------|--------------------------|-------------------------|
| Iron | = 30 g/kg (Rat) | - | - |
| Nickel | > 9000 mg/kg (Rat) | - | > 10.2 mg/L (Rat) 1 h |
| Methyl propionate | = 5 g/kg (Rat) | > 5 g/kg (Rabbit) | - |
| Ethylbenzene | = 3500 mg/kg (Rat) | = 15400 mg/kg (Rabbit) | = 17.4 mg/L (Rat) 4 h |
| 1-Methyl-2-pyrrolidone | = 3914 mg/kg (Rat) | = 8 g/kg (Rabbit) | > 5.1 mg/L (Rat) 4 h |
| Carbon black | > 15400 mg/kg (Rat) | > 3 g/kg (Rabbit) | - |

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

| | |
|--|---|
| Skin corrosion/irritation | Classification based on data available for ingredients. Irritating to skin. |
| Serious eye damage/eye irritation | Classification based on data available for ingredients. Causes burns. Risk of serious damage to eyes. |
| Respiratory or skin sensitization | May cause sensitization by skin contact. |
| Germ cell mutagenicity | No information available. |
| Carcinogenicity | Contains a known or suspected carcinogen. Classification based on data available for ingredients. May cause cancer. |

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

| Chemical name | ACGIH | IARC | NTP | OSHA |
|---|-------|----------|------------------------|------|
| Lithium Cobalt Oxide (CoLiO ₂) 12190-79-3 | A3 | Group 2B | Reasonably Anticipated | X |
| Nickel 7440-02-0 | - | Group 2B | Reasonably Anticipated | X |
| Ethylbenzene 100-41-4 | A3 | Group 2B | - | X |
| Chromium 7440-47-3 | - | Group 3 | - | - |
| Carbon black 1333-86-4 | A3 | Group 2B | - | X |

Legend**ACGIH (American Conference of Governmental Industrial Hygienists)**

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in 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 | Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. May damage fertility or the unborn child. |
| STOT - single exposure | No information available. |
| STOT - repeated exposure | Causes damage to organs through prolonged or repeated exposure. |
| Aspiration hazard | No information available. |

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 | 96h EC50: 0.031 - 0.054 mg/L (Pseudokirchneriella subcapitata) 72h EC50: 0.0426 - 0.0535 mg/L (Pseudokirchneriella subcapitata) | 96h LC50: 0.0068 - 0.0156 mg/L (Pimephales promelas) 96h LC50: < 0.3 mg/L (Pimephales promelas) 96h LC50: = 0.2 mg/L (Pimephales promelas) 96h LC50: = 0.3 mg/L (Cyprinus carpio) 96h LC50: = 0.052 mg/L (Oncorhynchus mykiss) 96h LC50: = 1.25 mg/L (Lepomis macrochirus) 96h LC50: = 0.112 mg/L (Poecilia reticulata) 96h LC50: = 0.8 mg/L (Cyprinus carpio) | - | 48h EC50: = 0.03 mg/L |
| Iron | - | 96h LC50: = 13.6 mg/L (Morone saxatilis) | - | - |
| Nickel | 72h EC50: = 0.18 mg/L (Pseudokirchneriella subcapitata) 96h EC50: 0.174 - 0.311 mg/L (Pseudokirchneriella subcapitata) | 96h LC50: = 1.3 mg/L (Cyprinus carpio) 96h LC50: = 10.4 mg/L (Cyprinus carpio) 96h LC50: > 100 mg/L (Brachydanio rerio) | - | 48h EC50: > 100 mg/L 48h EC50: = 1 mg/L |
| Ethylbenzene | 72h EC50: = 4.6 mg/L (Pseudokirchneriella subcapitata) 72h EC50: 2.6 - 11.3 mg/L (Pseudokirchneriella subcapitata) 96h EC50: 1.7 - 7.6 mg/L (Pseudokirchneriella subcapitata) 96h EC50: > 438 mg/L (Pseudokirchneriella subcapitata) | 96h LC50: = 4.2 mg/L (Oncorhynchus mykiss) 96h LC50: = 9.6 mg/L (Poecilia reticulata) 96h LC50: 7.55 - 11 mg/L (Pimephales promelas) 96h LC50: 9.1 - 15.6 mg/L (Pimephales promelas) 96h LC50: 11.0 - 18.0 mg/L (Oncorhynchus mykiss) 96h LC50: = 32 mg/L (Lepomis macrochirus) | EC50 = 9.68 mg/L 30 min EC50 = 96 mg/L 24 h | 48h EC50: 1.8 - 2.4 mg/L |
| 1-Methyl-2-pyrrolidone | 72h EC50: > 500 mg/L (Desmodesmus subspicatus) | 96h LC50: = 832 mg/L (Lepomis macrochirus) 96h LC50: = 1072 mg/L (Pimephales promelas) 96h LC50: = 1400 mg/L (Poecilia reticulata) 96h LC50: = 4000 mg/L (Leuciscus idus) | - | 48h EC50: = 4897 mg/L |
| Carbon black | - | - | - | 24h EC50: > 5600 mg/L |

Persistence and Degradability

No information available.

Bioaccumulation

Component Information

| Chemical name | Log Pow |
|------------------------|---------|
| Ethylbenzene | 3.2 |
| 1-Methyl-2-pyrrolidone | -0.46 |

Mobility No information available.

Other adverse effects No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

US EPA Waste Number D007

California Waste Codes 141

This product contains one or more substances that are listed with the State of California as a hazardous waste.

| Chemical name | California Hazardous Waste |
|--|----------------------------------|
| Copper 7440-50-8 | Toxic |
| Lithium Cobalt Oxide (CoLiO ₂) 12190-79-3 | Toxic |
| Aluminum 7429-90-5 | Ignitable powder |
| Nickel 7440-02-0 | Toxic powder Ignitable powder |
| Methyl propionate 554-12-1 | Ignitable |
| Ethylbenzene 100-41-4 | Toxic Ignitable |
| Chromium 7440-47-3 | Toxic Corrosive Ignitable |

14. TRANSPORT INFORMATION

Note:

The transportation of primary lithium cells and batteries is regulated by the International Civil Aviation Organization, International Air Transport Association, International Maritime Dangerous Goods Code and the US Department of Transportation. The batteries must meet the following criteria for shipment: 1. Air shipments must meet the requirements listed in Special Provision A45 of the International Air Transport Association Dangerous Goods Regulations. 2. Meet the requirements for the US Department of Transportation listed in 49 CFR 173.185. 3. The transport of primary lithium batteries is prohibited aboard passenger aircraft. Refer to the Federal Register December 15, 2004 (Hazardous Materials; Prohibited on the Transportation of Primary Lithium Batteries and Cells Aboard Passenger Aircraft; Final Rule)



Lithium batteries shipped as "Lithium batteries", "Lithium batteries packed with equipment", or "Lithium batteries contained in equipment" may not be classified as "Dangerous Goods" when shipped in accordance with "special provision A45 of IATA-DGR" or "special provision 188 of IMO-IMDG Code"

| | |
|--|--|
| <u>DOT</u> | NOT REGULATED |
| Proper Shipping Name | NON-REGULATED |
| Hazard Class | N/A |
| Emergency Response Guide Number | 147 |
| <u>TDG</u> | Not regulated |
| <u>MEX</u> | Not regulated |
| <u>ICAO</u> | Not regulated |
| <u>IATA</u> | Not regulated |
| Proper Shipping Name | NON REGULATED |
| Hazard Class | N/A |
| <u>IMDG/IMO</u> | Not regulated |
| Hazard Class | N/A |
| EmS-No. | F-A, S-I |
| Marine Pollutant | This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO |
| <u>RID</u> | Not regulated |
| <u>ADR</u> | Not regulated |
| Tunnel restriction code | (E) |
| <u>ADN</u> | Not regulated |

15. REGULATORY INFORMATION

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

International Regulations

Ozone-depleting substances (ODS) Not applicable

Persistent Organic Pollutants Not applicable

Export Notification requirements Not applicable

International Inventories

| | |
|----------------------|---|
| TSCA | Contact supplier for inventory compliance status. |
| DSL/NDSL | Contact supplier for inventory compliance status. |
| EINECS/ELINCS | Contact supplier for inventory compliance status. |
| ENCS | Contact supplier for inventory compliance status. |
| KECL | Contact supplier for inventory compliance status. |
| PICCS | Contact supplier for inventory compliance status. |
| AICS | Contact supplier for inventory compliance status. |

Legend

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



DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical name | CAS No. | Weight-% | SARA 313 - Threshold Values % |
|---|------------|----------|-------------------------------|
| Copper - 7440-50-8 | 7440-50-8 | 15 | 1.0 |
| Lithium Cobalt Oxide (CoLiO ₂) - 12190-79-3 | 12190-79-3 | 5 | 0.1 |
| Aluminum - 7429-90-5 | 7429-90-5 | 5 | 1.0 |
| Nickel - 7440-02-0 | 7440-02-0 | 1 | 0.1 |
| Ethylbenzene - 100-41-4 | 100-41-4 | 1 | 0.1 |
| Chromium - 7440-47-3 | 7440-47-3 | 1 | 1.0 |
| 1-Methyl-2-pyrrolidone - 872-50-4 | 872-50-4 | 1 | 1.0 |

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

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 | |
| Ethylbenzene 100-41-4 | 1000 lb | X | X | X |
| Chromium 7440-47-3 | | 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 RQ 2270 kg final RQ |
| Nickel 7440-02-0 | 100 lb | | RQ 100 lb final RQ RQ 45.4 kg final RQ |
| Ethylbenzene 100-41-4 | 1000 lb | | RQ= 1000 lb final RQ RQ= 454 kg final RQ |
| Chromium 7440-47-3 | 5000 lb 10 lb | | RQ 5000 lb final RQ RQ 2270 kg final RQ RQ 10 lb final RQ |



| | | | |
|--|--|--|---------------------|
| | | | RQ 4.54 kg final RQ |
|--|--|--|---------------------|

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

| Chemical name | California Proposition 65 |
|-----------------------------------|----------------------------------|
| Ethylbenzene - 100-41-4 | Carcinogen |
| Lithium carbonate - 554-13-2 | Developmental |
| Nickel - 7440-02-0 | carcinogen, 10/1/1989 (metallic) |
| 1-Methyl-2-pyrrolidone - 872-50-4 | Developmental |
| Carbon black - 1333-86-4 | Carcinogen |

U.S. State Right-to-Know Regulations

This product may contain substances regulated by 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 | X |
| Lithium Cobalt Oxide (CoLiO2) 12190-79-3 | X | | X | X | X |
| Aluminum 7429-90-5 | X | X | X | X | |
| Phosphate(1-), hexafluoro-, lithium 21324-40-3 | X | | | | |
| Nickel 7440-02-0 | X | X | X | X | X |
| Methyl propionate 554-12-1 | X | X | X | | |
| Ethylbenzene 100-41-4 | X | X | X | X | X |
| Chromium 7440-47-3 | X | X | X | X | X |
| 1-Methyl-2-pyrrolidone 872-50-4 | X | X | X | X | |
| Carbon black 1333-86-4 | X | X | X | | X |

16. OTHER INFORMATION

| | | | | |
|-------------|------------------|----------------|--------------------|---|
| NFPA | Health hazards 1 | Flammability 0 | Instability 0 | Physical and Chemical Properties - Personal Protection X |
| HMIS | Health hazards 0 | Flammability 0 | Physical hazards 0 | |

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Revision Note

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Disclaimer

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End of Safety Data Sheet