

SAFETY DATA SHEET

US OSHA Hazard Communication Standard (29 CFR 1910.1200) and Canada WHMIS 2015 which includes the amended Hazardous Products Act (HPA) and the Hazardous Products Regulation (HPR)

Issuing Date 27-Jul-2021

Revision Date 27-Jul-2021

Revision Number 1

1. Identification

Product identifier

Product Name Li-ion battery pack BA2242T 56V 4.0Ah 224Wh

Other means of identification

UN/ID no UN3480

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use Battery

Restrictions on use Do not short circuit or expose to temperatures higher than the maximum temperature rating specified by the manufacturer. Do not recharge, over charge or crush any cell or pack. Ensure cells and batteries are safely handled and stored. Review Section 7 completely before use.

Details of the supplier of the safety data sheet

Initial supplier identifier

Chervon Canada Inc.
1-3480 Laid Road
Mississauga, Ontario L5L 5Y4
Canada
Phone: 1-866-624-3786

Supplier Address

Chervon North America
769 Seward Ave NW Suite 102
Grand Rapids, MI 49504
Phone: +1-847-571-8373

Manufacturer Address

Nanjing Chervon Industry Co., Ltd.
159 South Jiang Jun Rd. Jiangning
Economic & Technical Development Zone
Nanjing, Jiangsu 211106 P.R. China
Phone: +862552101133

E-mail

daversano@na.chervongroup.com; hj.ye@cn.chervongroup.com

Emergency telephone number

Emergency telephone +1-847-571-8373

2. Hazard(s) identification

Classification

This product is a battery. No exposure to hazardous chemicals is expected to occur during intended product use. Misuse of the product may result in exposure to hazardous chemicals. The hazard classification information below relates to the mixture of components contained within the battery.

| | |
|--|-------------|
| Acute toxicity - Inhalation (Dusts/Mists) | Category 1 |
| Skin sensitization | Category 1 |
| Carcinogenicity | Category 1A |
| Specific target organ toxicity (repeated exposure) | Category 1 |

Label elements

Danger

Hazard statements

Fatal if inhaled.

May cause an allergic skin reaction.

May cause cancer.

Causes damage to organs through prolonged or repeated exposure.

**Precautionary Statements - Prevention**

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

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention.

Skin

IF ON SKIN: Wash with plenty of water and soap. If skin irritation or rash occurs: Get medical advice and attention. Wash contaminated clothing before reuse.

Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.

Precautionary Statements - Storage

Store locked up. Store in a well-ventilated place. Keep container tightly closed.

Precautionary Statements - Disposal

Dispose of contents and container to an approved waste disposal plant.

Other information

Very toxic to aquatic life with long lasting effects.

Unknown acute toxicity

48.4 % 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) |
|-------------------------------------|-------------|----------|--|---|
| Lithium cobalt nickel oxide | 113066-89-0 | <35 | - | - |
| Graphite | 7782-42-5 | <20 | - | - |
| Copper | 7440-50-8 | <15 | - | - |
| Aluminum | 7429-90-5 | <10 | - | - |
| Phosphate(1-), hexafluoro-, lithium | 21324-40-3 | <5 | - | - |
| Ethylene carbonate | 96-49-1 | <5 | - | - |
| Dimethyl carbonate | 616-38-6 | <5 | - | - |
| Carbon black | 1333-86-4 | <5 | * | - |

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

4. First-aid measures

Description of first aid measures

| | |
|---|--|
| General advice | First aid is upon rupture of sealed battery. Immediate medical attention is required. Show this safety data sheet to the doctor in attendance. |
| Inhalation | If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. Do not breathe dust. 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. IF INHALED: Call a POISON CENTER or doctor/physician. |
| Eye contact | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately. |
| Skin contact | Wash off immediately with soap and plenty of water. Take off contaminated clothing and wash before reuse. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician. IF ON SKIN: |
| Ingestion | IF SWALLOWED: Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. |
| Self-protection of the first aider | Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Do not breathe dust. 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. Use personal protective equipment as required. See section 8 for more information. |

Most important symptoms and effects, both acute and delayed

| | |
|-----------------|---|
| Symptoms | Coughing and/ or wheezing. Difficulty in breathing. 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. |
| Unsuitable extinguishing media | Use of water spray when fighting a lithium fire may be inefficient. However, copious amounts of water may be used to cool a battery fire and extinguish any surrounding combustible fires. |
| Specific hazards arising from the chemical | Product is or contains a sensitizer. May cause sensitization by skin contact. |
| Explosion data | |
| Sensitivity to mechanical impact | None. |
| Sensitivity to static discharge | None. |
| Special protective equipment and precautions 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 In case of rupture: Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid generation of dust. Do not breathe dust. 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 During a release, ensure the Personal Protection listed in Section 8 is worn. Neutralize any electrolyte contaminated surfaces with baking soda, soda lime or sodium bicarbonate. Transfer damaged battery and any clean up materials to a sealed container a neutralizing material as stated above. Ensure the container is properly labeled.

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. Do not breathe dust. Avoid generation of dust. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Do not crush, pierce, short circuit (+) and (-) battery terminals with conductive (metal) goods. Do not directly heat or solder. Do not throw into fire. Do not mix batteries of different types and brands. Do not mix new and used batteries. Keep batteries in non-conductive (plastic) trays. Cells or batteries that have been dropped or experience mechanical shock should be isolated and monitored for approximately 5 days to identify a possible internal short circuit and resulting fire. Jewelry, and all metal, should be removed before handling batteries to avoid short circuit.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store at room temperature. Do not store near combustible materials. Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children. Elevated temperature (>60°C) can shorten battery life. Do not store in high humidity environments. Never stack heavy objects on top of battery boxes. Keep batteries in original packaging until use and do not expose them to unnecessary or excessive handling.

8. Exposure controls/personal protection

Control parameters

Exposure Limits The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH |
|--|--|--|--|
| Lithium cobalt nickel oxide 113066-89-0 | TWA: 0.02 mg/m ³ Co inhalable particulate matter | TWA: 1 mg/m ³ Ni (vacated) TWA: 1 mg/m ³ Ni | IDLH: 10 mg/m ³ Ni TWA: 0.015 mg/m ³ except |

| | | | | |
|---|---|--|---|---|
| | TWA: 0.2 mg/m ³ Ni inhalable particulate matter | | Nickel carbonyl Ni | |
| 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 natural 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 | |
| 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 21324-40-3 | 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 | |
| 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 | Quebec |
| Lithium cobalt nickel oxide 113066-89-0 | TWA: 0.2 mg/m ³ TWA: 0.02 mg/m ³ | TWA: 0.02 mg/m ³ TWA: 0.05 mg/m ³ Dermal Sensitizer, Respiratory Sensitizer | TWA: 0.2 mg/m ³ TWA: 0.02 mg/m ³ | TWA: 0.2 mg/m ³ TWA: 0.02 mg/m ³ |
| 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 |
| Aluminum 7429-90-5 | TWA: 10 mg/m ³ | TWA: 1.0 mg/m ³ | TWA: 1 mg/m ³ | TWA: 10 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 |
| Carbon black 1333-86-4 | TWA: 3.5 mg/m ³ | TWA: 3 mg/m ³ | TWA: 3 mg/m ³ | TWA: 3 mg/m ³ |

Biological occupational exposure limits

| Chemical name | ACGIH |
|---|---|
| Lithium cobalt nickel oxide 113066-89-0 | 15 µg/L - urine (Cobalt) - end of shift at end of workweek 5 µg/L - urine (Nickel) - post-shift at end of workweek |
| Phosphate(1-), hexafluoro-, lithium 21324-40-3 | 2 mg/L - urine (Fluoride) - prior to shift 3 mg/L - urine (Fluoride) - end of shift |

Appropriate engineering controls**Engineering controls**

Showers
Eyewash stations

Ventilation systems.

Individual protection measures, such as personal protective equipment

| | |
|---------------------------------------|---|
| Eye/face protection | None required for normal handling of the finished product. If necessary to handle damaged product where exposure to the electrolyte is a possibility, chemical splash goggles and a face shield are recommended. |
| Hand protection | None required for normal handling of the finished product. If necessary to handle damaged product where exposure to the electrolyte is a possibility, chemically resistant gloves are recommended. |
| Skin and body protection | None required for normal handling of the finished product. If necessary to handle damaged product where exposure to the electrolyte is a possibility, a chemically resistant apron is recommended. |
| Respiratory protection | When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. |
| General hygiene considerations | Avoid contact with skin, eyes or clothing. Do not breathe dust. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. |

9. Physical and chemical properties

Information on basic physical and chemical properties

| | |
|-----------------------|--------------------------|
| Appearance | |
| Physical state | Solid |
| Color | Green and black |
| Odor | Odorless |
| Odor threshold | No information available |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|---|----------------------|--------------------------------|
| pH | | No data available |
| Melting point / freezing point | | No data available |
| Initial boiling point and boiling range | | No data available |
| Flash point | | No data available |
| Evaporation rate | | No data available |
| Flammability | | No data available |
| Flammability Limit in Air | | |
| Upper flammability or explosive limits | | No data available |
| Lower flammability or explosive limits | | No data available |
| Vapor pressure | | No data available |
| Vapor density | | No data available |
| Relative density | | No data available |
| Water solubility | | No data available |
| Solubility(ies) | | No data available |
| Partition coefficient | | No data available |
| Autoignition temperature | | No data available |
| Decomposition temperature | | No data available |
| Kinematic viscosity | | No data available |
| Dynamic viscosity | | No data available |

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 |

10. Stability and reactivity

| | |
|------------------------------------|---|
| Reactivity | None under normal use conditions. |
| Chemical stability | Stable under normal conditions. |
| Possibility of hazardous reactions | None under normal use conditions. In the event of a leak or rupture: electrolyte and lithium will react with water. |
| Conditions to avoid | Heat, flames and sparks. |
| Incompatible materials | Strong oxidizing agents. Under normal use, batteries are not incompatible. The electrolyte is incompatible with: |
| Hazardous decomposition products | Thermal decomposition can lead to release of toxic/corrosive gases and vapors. |

11. Toxicological information

Information on likely routes of exposure

| | |
|---------------------|---|
| Product Information | Exposure is not expected for product under normal conditions of use. In the event of an exposure to electrolyte the following toxicological information is provided: |
| Inhalation | Specific test data for the substance or mixture is not available. Fatal if inhaled. (based on components). |
| Eye contact | Specific test data for the substance or mixture is not available. Contact with eyes may cause irritation. |
| Skin contact | Specific test data for the substance or mixture is not available. May cause sensitization by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). |
| Ingestion | Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. |

Symptoms related to the physical, chemical and toxicological characteristics

| | |
|----------|---|
| Symptoms | Coughing and/ or wheezing. Difficulty in breathing. Itching. Rashes. Hives. |
|----------|---|

Acute toxicity

Numerical measures of toxicity

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

ATEmix (inhalation-dust/mist) 0.029 mg/l

Unknown acute toxicity

48.4 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---------------|-----------|-------------|--------------------------------------|
| Graphite | - | - | > 2000 mg/m ³ (Rat) 4 h |
| Copper | - | - | > 5.11 mg/L (Rat) 4 h |

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|--------------------|-----------------------|--------------------------|-------------------------------------|
| Aluminum | - | - | > 0.888 mg/L (Rat) 4 h |
| Ethylene carbonate | = 10 g/kg (Rat) | > 26420 mg/kg (Rabbit) | > 730 mg/m ³ (Rat) 8 h |
| Dimethyl carbonate | = 13 g/kg (Rat) | > 5 g/kg (Rabbit) | > 5.36 mg/L (Rat) 4 h |
| Carbon black | > 15400 mg/kg (Rat) | - | > 4.6 mg/m ³ (Rat) 4 h |

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

| | |
|--|---|
| Skin corrosion/irritation | No information available. |
| Serious eye damage/eye irritation | May cause eye irritation. |
| 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 nickel oxide 113066-89-0 | A1 A3 | Group 2B Group 1 | Reasonably Anticipated Known | X |
| Carbon black 1333-86-4 | A3 | Group 2B | - | X |

Legend

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

NTP (National Toxicology Program)

Known - Known Carcinogen

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

| | |
|---------------------------------|---|
| Reproductive toxicity | No information available. |
| STOT - single exposure | No information available. |
| STOT - repeated exposure | Causes damage to organs through prolonged or repeated exposure. |
| Aspiration hazard | No information available. |

12. Ecological information

Ecotoxicity Very toxic to aquatic life with long lasting effects. Avoid release to the environment.

| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|-----------------------|--|--|----------------------------|--------------------------------------|
| Graphite 7782-42-5 | - | LC50: >100mg/L (96h, Danio rerio) | - | - |
| Copper 7440-50-8 | EC50: 0.031 - 0.054mg/L (96h, Pseudokirchneriella subcapitata) | LC50: 0.0068 - 0.0156mg/L (96h, Pimephales promelas) LC50: <0.3mg/L (96h, | - | EC50: =0.03mg/L (48h, Daphnia magna) |

| | | | | |
|-----------------------------|--|---|---|---|
| | EC50: 0.0426 - 0.0535mg/L (72h, Pseudokirchneriella subcapitata) | Pimephales promelas) LC50: =0.052mg/L (96h, Oncorhynchus mykiss) LC50: =0.112mg/L (96h, Poecilia reticulata) LC50: =0.2mg/L (96h, Pimephales promelas) LC50: =0.3mg/L (96h, Cyprinus carpio) LC50: =0.8mg/L (96h, Cyprinus carpio) LC50: =1.25mg/L (96h, Lepomis macrochirus) | | |
| Ethylene carbonate 96-49-1 | - | LC50: >100mg/L (96h, Oncorhynchus mykiss) | - | - |
| Dimethyl carbonate 616-38-6 | - | LC50: >=100mg/L (96h, Danio rerio) | - | - |

Persistence and degradability No information available.

Bioaccumulation No information available.

Mobility in soil 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.

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

14. Transport information

DOT

UN/ID no UN3480
 Proper shipping name LITHIUM ION BATTERIES
 Transport hazard class(es) 9
 Reportable Quantity (RQ) (Copper: RQ (kg)= 2270.00) Copper: RQ (lb)= 5000.00
 DOT reportable quantity kg Copper: RQ (kg)= 15235.00
 (calculated)
 DOT Reportable Quantity lbs. Copper: RQ (lb)= 33557.00
 (calculated)
 Special Provisions 388, 422, A54, A100
 Description UN3480, LITHIUM ION BATTERIES, 9
 Emergency Response Guide Number 147

TDG

UN/ID no UN3480

Proper shipping name LITHIUM ION BATTERIES
Transport hazard class(es) 9
Special Provisions 34, 123, 137, 138, 149, 159
Description UN3480, LITHIUM ION BATTERIES, 9

IATA

UN number or ID number UN3480
UN proper shipping name Lithium ion batteries
Transport hazard class(es) 9
Subsidiary hazard class 9A
Packing group
ERG Code 12FZ
Special Provisions A88, A99, A154, A164, A183, A201, A206, A213 A331, A334, A802
Description UN3480, Lithium ion batteries, 9 (9A)

IMDG

UN number or ID number UN3480
UN proper shipping name LITHIUM ION BATTERIES
Transport hazard class(es) 9
Packing group
EmS-No F-A, S-I
Special Provisions 188, 230, 310, 348, 376, 377, 384, 387
Description UN3480, LITHIUM ION BATTERIES, 9

15. Regulatory information**Safety, health and environmental regulations/legislation specific for the substance or mixture****International Regulations**

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories

Contact supplier for inventory compliance status

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 | SARA 313 - Threshold Values % |
|---|-------------------------------|
| Lithium cobalt nickel oxide - 113066-89-0 | 0.1 |
| Copper - 7440-50-8 | 1.0 |
| Aluminum - 7429-90-5 | 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.

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 |
|---------------|-----------------------------|------------------------|---------------------------|----------------------------|
|---------------|-----------------------------|------------------------|---------------------------|----------------------------|

| | | | | |
|--|---|---|---|---|
| Lithium cobalt nickel oxide 113066-89-0 | - | X | - | - |
| Copper 7440-50-8 | - | 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 | Reportable Quantity (RQ) |
|---------------------|--------------------------|------------------------------------|--|
| Copper 7440-50-8 | 5000 lb | - | RQ 5000 lb final RQ RQ 2270 kg final RQ |

US State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals:

| Chemical name | California Proposition 65 |
|---|---------------------------|
| Lithium cobalt nickel oxide - 113066-89-0 | Carcinogen |
| Carbon black - 1333-86-4 | Carcinogen |

U.S. State Right-to-Know Regulations

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|--|------------|---------------|--------------|
| Lithium cobalt nickel oxide 113066-89-0 | X | - | X |
| Graphite 7782-42-5 | X | X | X |
| Copper 7440-50-8 | X | X | X |
| Aluminum 7429-90-5 | X | X | X |
| Dimethyl carbonate 616-38-6 | X | X | X |
| Carbon black 1333-86-4 | X | X | X |
| Phosphate(1-), hexafluoro-, lithium 21324-40-3 | X | - | - |
| Ethylene carbonate 96-49-1 | - | X | X |

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information

| | | | | |
|-------------|------------------|----------------|--------------------|-----------------------|
| NFPA | Health hazards 1 | Flammability 0 | Instability 0 | Special hazards - |
| HMIS | Health hazards 1 | Flammability 0 | Physical hazards 0 | Personal protection X |

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

| | | | |
|----------------|--|-----------|--|
| TWA Ceiling | TWA (time-weighted average) Maximum limit value | STEL * | STEL (Short Term Exposure Limit) Skin designation |
|----------------|--|-----------|--|

Key literature references and sources for data used to compile the SDS

U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AEGl(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
Japan GHS Classification
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
Organization for Economic Co-operation and Development High Production Volume Chemicals Program
Organization for Economic Co-operation and Development Screening Information Data Set
World Health Organization

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Revision Note Initial Release.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet