

Product Name Rechargeable Li-ion battery pack
Issuing Date 18-Jul-2023
(M)SDS Number SRYLBM-001

Revision Date 11-Dec-2025
Revision Number 3

Refer the serial number sticker on the product or packaging to determine the applicable MSDS. This MSDS is relevant if seventh digit of the serial number is "H".



Example serial number barcode on battery pack

Legal Information

| | |
|--------------------|--|
| Legal remark (USA) | <p>Safety Data Sheets are a sub-requirement of the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (GHS), 29 CFR Subpart 1910.1200. This Hazard Communication Standard does not apply to various subcategories including anything defined by OSHA as an "article". According to OSHA, Article means a manufactured item other than a fluid or particle: (i) which is formed to a specific shape or design during manufacturer; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g, minute or trace amounts of a hazardous chemical (as determined under paragraph (d) of this section), and does not pose a physical hazard or health risk to employees. Because all our batteries are defined as "articles", they are exempt from the requirements of the Hazard communication Standard in normal condition.</p> |
| General remark | <p>This information is provided as a service to our customers. The details presented are in accordance with our present knowledge and experiences. They are not contractual assurances of product attributes. Specifications are subject to change without notice.</p> |

| | |
|---|------------|
| Specific target organ toxicity - Repeated exposure | Category 1 |
| Hazardous to the Aquatic Environment - Acute Hazard | Category 1 |
| Hazardous to the Aquatic Environment - Chronic Hazard | Category 1 |

Label elements



Signal word

Danger

Hazard statements

H313 - May be harmful in contact with skin

H317 - May cause an allergic skin reaction

H351 - Suspected of causing cancer

H372 - Causes damage to organs through prolonged or repeated exposure

H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements

Prevention

P203 - Obtain, read and follow all safety instructions before use

P280 - Wear protective gloves/clothing and eye/face protection

P272 - Contaminated work clothing should not be allowed out of the workplace

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P264 - Wash face, hands and any exposed skin thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P273 - Avoid release to the environment

Response

IF exposed or concerned: Get medical advice/attention

IF ON SKIN: Wash with plenty of water and soap

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

Take off contaminated clothing and wash it before reuse

Collect spillage

Storage

Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Physical and chemical hazards

Not applicable.

Health hazards

Immediate Health Effects: Allergic reactions (sensitizer). Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing.

Chronic effects: Contains a known or suspected carcinogen. Target organ(s). Causes damage to the following organs through prolonged or repeated exposure: Respiratory system.

Environmental hazards

Dangerous for the environment. This material is a water pollutant. Keep out of drains, sewers, ditches and waterways. Minimize use of water to prevent environmental contamination.

Other hazards which do not result in classification

Not applicable.

3. Composition/information on ingredients

Substance / Mixture

Mixture

Ratings

180V, 2.47Ah, 444.6Wh

| Chemical name | CAS No. | Weight-% |
|---|------------|----------|
| Lithium Cobalt Oxide (CoLiO ₂) | 12190-79-3 | 32 |
| Graphite | 7782-42-5 | 18 |
| Poly(oxy-1,2-ethanediyloxycarbonyl-1,4-phenylenecarbonyl) | 25038-59-9 | 12 |
| Copper | 7440-50-8 | 11 |
| Dimethyl carbonate | 616-38-6 | 7 |
| Phosphate(1-), hexafluoro-, lithium | 21324-40-3 | 5.6 |
| Aluminum | 7429-90-5 | 5.3 |
| Polyethylene | 9002-88-4 | 3 |
| Ethylene carbonate | 96-49-1 | 2 |
| Nickel | 7440-02-0 | 1.2 |
| Carbonate, methyl ethyl | 623-53-0 | 1 |
| Carbon | 7440-44-0 | 1 |
| Cellulose, carboxymethyl ether | 9000-11-7 | 0.5 |
| 1,1-Difluoroethylene polymer | 24937-79-9 | 0.4 |

4. First-aid measures

Description of necessary first aid measures

General advice

- Move victims from the dangerous area to an area with fresh air.
- Show this Safety Data Sheet to the medical professionals in attendance.
- Quickly transport the victim to emergency care during eye contact, skin irritation, ingestion, or inhalation.

Inhalation

- Immediately move the victim to fresh air and remove the source of contamination from the area. Seek medical attention.
- If the victim has difficulty breathing, give oxygen. Do not use mouth-to-mouth resuscitation if the victim ingested or inhaled hazardous substances. If the victim is not breathing, give artificial respiration and seek medical attention immediately

Eye contact

- Immediately flush the eyes with clean water for at least 15 minutes, without rubbing.
- If appropriate action is not taken, exposure may cause eye irritation.
- Seek medical attention if eye irritation persists.

Skin contact

- Immediately remove all contaminated clothing and wash before reuse.
- Rinse skin with water for at least 15 minutes.
- If appropriate procedures are not taken, this may cause skin irritation.
- Seek medical attention if skin irritation occurs.

Ingestion

- Have the victim rinse their mouth thoroughly with water and seek medical attention: Call Poison Control or emergency services immediately.
- Do not induce vomiting.
- Never give anything by mouth to an unconscious person.

Most important symptoms/effects, acute and delayed

| | |
|--|--|
| <u>Symptoms</u> | Itching. Rashes. Hives. |
| <u>Effects of Exposure</u> | Causes damage to organs through prolonged or repeated exposure. |
| <u>For emergency responders</u> | No information available. |
| <u>Note to physicians</u> | May cause sensitization in susceptible persons. Treat symptomatically. |

5. Fire-fighting measures

Extinguishing media

| | |
|---|--|
| Suitable Extinguishing Media | Carbon dioxide (CO ₂). Class D fire extinguisher. |
| 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. |
| Hazardous combustion products | Hydrogen fluoride, Carbon monoxide. |
| Special protective actions 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: 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. Do not breathe dust/fume/gas/mist/vapors/spray. |
| Other information | Refer to protective measures listed in Sections 7 and 8. |
| For emergency responders | Use personal protection recommended in Section 8. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains. |
| Methods and material for containment and cleaning up | 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 with a neutralizing material as stated above. Ensure the container is properly labeled. Dispose of in accordance with local regulations. If the battery material is released, remove personnel from area until fumes dissipate. Provide maximum ventilation to clear out hazardous gases. Wipe it up with a cloth, and dispose of it in a plastic bag and put into a steel can. The preferred response is to leave the area and allow the battery to cool and vapors to dissipate. Provide maximum ventilation. Avoid skin and eye contact or inhalation of vapors. Remove spilled liquid with absorbent and incinerate. |
| Precautions to prevent secondary hazards | Clean contaminated objects and areas thoroughly observing environmental regulations. |

7. Handling and storage

Precautions for 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. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Remove contaminated clothing and shoes. 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. 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

Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Do not store near combustible materials. 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.

Incompatible materials

Under normal use, batteries are not incompatible. The electrolyte is incompatible with: Strong acids, Strong bases, Strong oxidizing agents.

8. Exposure controls/personal protection**Occupational exposure limits**

A battery is considered an article per GHS guidelines and should not be considered dangerous unless it is in a broken condition.

| Chemical name | China | ACGIH TLV |
|--|---|---|
| Lithium Cobalt Oxide (CoLiO ₂) | TWA: 0.05 mg/m ³ STEL: 0.1 mg/m ³ | TWA: 0.02 mg/m ³ Co inhalable particulate matter |
| Graphite | TWA: 4 mg/m ³ total dust TWA: 2 mg/m ³ respirable dust | TWA: 2 mg/m ³ respirable particulate matter all forms except graphite fibers |
| Copper | TWA: 1 mg/m ³ dust TWA: 0.2 mg/m ³ fume | TWA: 0.2 mg/m ³ fume |
| Phosphate(1-), hexafluoro-, lithium | TWA: 2 mg/m ³ | TWA: 2.5 mg/m ³ F |
| Aluminum | TWA: 3 mg/m ³ total dust | TWA: 1 mg/m ³ respirable particulate matter |
| Polyethylene | TWA: 5 mg/m ³ total dust | - |
| Nickel | TWA: 1 mg/m ³ G2B(C**) | TWA: 1.5 mg/m ³ inhalable particulate matter |

Biological occupational exposure limits

| Chemical name | Biological standards | Monitoring and observation processes | ACGIH |
|--|----------------------|--------------------------------------|--|
| Lithium Cobalt Oxide (CoLiO ₂) | - | - | 15 µg/L - urine (Cobalt) - end of shift at end of workweek |
| Phosphate(1-), hexafluoro-, lithium | - | - | 2 mg/L - urine (Fluoride) - prior to shift 3 mg/L - urine (Fluoride) - end of shift |
| Nickel | - | - | 5 µg/L - urine (Nickel) - post-shift at end of workweek |

Monitoring and observation processes

- EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents
- GBZ/T 300 series standard Determination of toxic substances in workplace air.

Engineering controls

Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

| | |
|---------------------------------------|--|
| Eye/face protection | Take steps to prevent exposure to the eyes and face, including chemical splash goggles and a face shield. |
| Skin and body protection | Wear closed-toe shoes, chemical-resistant overalls, and protective over boots. |
| Hand protection | 15 mils nitrile rubber gloves. Immersion protection is provided when nitrile gloves are worn over laminated film barrier gloves (Ansell Barrier 2-100 or equivalent). |
| Respiratory protection | Wear a full-face respirator with an organic vapor/acid gas/particulate filter (3M Model No. 60923 or equivalent). |
| General hygiene considerations | The following personal protective equipment should be worn if the battery is mechanically, thermally, or electrically mishandled to the point where the protective case is damaged, which results in a risk of electrolyte exposure. |

9. Physical and chemical properties

Information on basic physical and chemical properties

| | |
|-----------------------|-------------------------------------|
| Appearance | Battery |
| Physical state | Solid |
| Color | Varies |
| Odor | If leaking: Smells of medical ether |
| Odor threshold | No information available |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|---|--------------------|-------------------------|
| pH | | Not applicable |
| 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 |
| Relative vapor density | | No data available |
| Relative density | | No data available |
| Water solubility | Insoluble in water | 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 |

Additional information

| | |
|-----------------------------|---------------------------|
| Explosive properties | No information available. |
| Oxidizing properties | No information available. |

10. Stability and reactivity

| | |
|---|--|
| Stability | Stable under normal conditions. |
| Possibility of hazardous reactions | None under normal processing. In the event of a leak or rupture: electrolyte and lithium will react with water. |
| Conditions to avoid | Heat, flames and sparks. Do not heat, crush, disassemble or short circuit. Do not exceed manufacturer's recommendation for charging or use battery for an application for which it was not specifically designed. Incompatible materials. Humidity. UV-radiation/sunlight. |
| Incompatible materials | Under normal use, batteries are not incompatible. The electrolyte is incompatible with: Strong acids, Strong bases, Strong oxidizing agents. |
| Hazardous decomposition products | Thermal decomposition can lead to release of irritating and toxic gases and vapors, Hydrogen fluoride, Carbon monoxide. |

11. Toxicological information

Information on likely routes of exposure

| | |
|----------------------------|---|
| Product Information | A battery is considered an article per GHS guidelines and should not be considered dangerous unless it is in a broken condition. 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. |
| Skin contact | May cause sensitization by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). May be harmful in contact with skin. |
| Eye contact | Specific test data for the substance or mixture is not available. Contact with eyes may cause irritation. |
| Ingestion | Specific test data for the substance or mixture is not available. |

Symptoms related to the physical, chemical and toxicological characteristics

| | |
|-----------------|-------------------------|
| Symptoms | Itching. Rashes. Hives. |
|-----------------|-------------------------|

Acute toxicity May be harmful in contact with skin.

Numerical measures of toxicity

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

| | |
|-------------------------------|----------------|
| ATEmix (dermal) | 2,621.40 mg/kg |
| ATEmix (inhalation-dust/mist) | 9.88 mg/l |

Unknown acute toxicity

58.1 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|--|----------------------|----------------------|-------------------------|
| Lithium Cobalt Oxide (CoLiO ₂) | > 5000 mg/kg (Rat) | > 2000 mg/kg (Rat) | > 5.05 mg/L (Rat) 4 h |

| | | | |
|-------------------------|-----------------------|--------------------------|--------------------------------------|
| Graphite | - | - | > 2000 mg/m ³ (Rat) 4 h |
| Copper | - | - | > 5.11 mg/L (Rat) 4 h |
| Dimethyl carbonate | = 13 g/kg (Rat) | > 5 g/kg (Rabbit) | > 5.36 mg/L (Rat) 4 h |
| Aluminum | - | - | > 0.888 mg/L (Rat) 4 h |
| Polyethylene | > 8 g/kg (Rat) | - | - |
| Ethylene carbonate | = 10 g/kg (Rat) | > 26420 mg/kg (Rabbit) | > 730 mg/m ³ (Rat) 8 h |
| Nickel | > 9000 mg/kg (Rat) | - | > 10.2 mg/L (Rat) 1 h |
| Carbonate, methyl ethyl | > 15000 mg/kg (Rat) | - | > 17.6 mg/L (Rat) 4 h |
| Carbon | > 10000 mg/kg (Rat) | - | - |

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Contains a known or suspected carcinogen. Classification based on data available for ingredients. Suspected of causing cancer.

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

| Chemical name | China | IARC |
|--|---------------------------------|----------|
| Lithium Cobalt Oxide (CoLiO ₂) | | Group 2B |
| Polyethylene | | Group 3 |
| Nickel | Possibly carcinogenic to humans | Group 2B |

Legend

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

Reproductive toxicity Contains a known or suspected reproductive toxin. Classification based on data available for ingredients.

Specific target organ toxicity (single exposure) Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure) Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard Based on available data, the classification criteria are not met.

12. Ecological information

Ecotoxicity

A battery is considered an article per GHS guidelines and should not be considered dangerous unless it is in a broken condition.
Very toxic to aquatic life with long lasting effects.

| Chemical name | Algae/aquatic plants | Fish | Crustacea |
|-------------------------|--|--|--|
| Graphite | - | LC50: >100mg/L (96h, Danio rerio) | - |
| Copper | EC50: 0.0426 - 0.0535mg/L (72h, Pseudokirchneriella subcapitata) EC50: 0.031 - 0.054mg/L (96h, Pseudokirchneriella subcapitata) | LC50: 0.0068 - 0.0156mg/L (96h, Pimephales promelas) LC50: <0.3mg/L (96h, Pimephales promelas) LC50: =0.2mg/L (96h, Pimephales promelas) LC50: =0.052mg/L (96h, Oncorhynchus mykiss) LC50: =1.25mg/L (96h, Lepomis macrochirus) LC50: =0.3mg/L (96h, Cyprinus carpio) LC50: =0.8mg/L (96h, Cyprinus carpio) LC50: =0.112mg/L (96h, Poecilia reticulata) | EC50: =0.03mg/L (48h, Daphnia magna) |
| Dimethyl carbonate | - | LC50: >=100mg/L (96h, Danio rerio) | - |
| Ethylene carbonate | - | LC50: >100mg/L (96h, Oncorhynchus mykiss) | - |
| Nickel | EC50: =0.18mg/L (72h, Pseudokirchneriella subcapitata) EC50: 0.174 - 0.311mg/L (96h, Pseudokirchneriella subcapitata) | LC50: >100mg/L (96h, Brachydanio rerio) LC50: =1.3mg/L (96h, Cyprinus carpio) LC50: =10.4mg/L (96h, Cyprinus carpio) | EC50: >100mg/L (48h, Daphnia magna) EC50: =1mg/L (48h, Daphnia magna) |
| Carbonate, methyl ethyl | - | LC50: >100mg/L (96h, Oncorhynchus mykiss) | - |

Persistence and degradability No information available.

Bioaccumulative potential No information available.

Component Information

| Chemical name | Partition coefficient |
|-------------------------|-----------------------|
| Dimethyl carbonate | 0.354 |
| Ethylene carbonate | 0.11 |
| Carbonate, methyl ethyl | 0.972 |

Mobility in soil No information available.

13. Disposal considerations**Waste chemicals**

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging

Do not reuse empty containers.




14. Transport information

Note: The battery pack meets the requirements of the test in the United Nations (UN) Manual of Tests and Criteria, Part III, subsection 38.3. UN38.3 Test Report Summary is available upon request.
State of Charge (SoC) of the battery must not exceed 30%

Transport by road and rail (ADG) P903, P908, P909, P910, P911, LP903, LP904, LP905, LP906
UN number or ID number UN 3480
UN proper shipping name LITHIUM ION BATTERIES
Transport hazard class(es) 9
Packaging Group II
Description UN 3480, LITHIUM ION BATTERIES, 9

IMDG PI 903
UN number or ID number UN 3480
UN proper shipping name LITHIUM ION BATTERIES
Transport hazard class(es) 9
Marine pollutant P
Packaging Group II
Description UN 3480, LITHIUM ION BATTERIES, 9
EmS-No. F-A, S-I

IATA Forbidden for transport by Passenger Air.
 PI 965 Section IA
 444.6Wh
UN number or ID number UN 3480
UN proper shipping name Lithium ion batteries
Transport hazard class(es) 9
Packaging Group II
Description UN 3480, Lithium ion batteries, 9
ERG Code 12FZ

| | | |
|--|---|---|
| | IMDG | IATA |
| UN number | UN 3480 | UN 3480 |
| Hazard Class | Class 9 | Class 9 |
| Packaging Instruction & Label | PI 903  | PI 965 Section IA   |

Special precautions for user
 Please refer to the applicable dangerous goods regulations for additional information

The following provides information to trained and certified individuals to support proper shipping of this item.

| Model | Nominal Voltage (DCV) | Nominal Capacity (Ah) | Power (Wh) | Weight |
|--------|-----------------------|-----------------------|------------|---------|
| SRYLBM | 180 | 2.47 | 444.6 | 10.47kg |

15. Regulatory information

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

International Chemical Inventory

| Component | EC Inventory | TSCA | DSL | IECSC | NZIoC | PICCS | KECI | AICS | ENCS |
|----------------------|--------------|------|-----|-------|-------|-------|------|------|------|
| Lithium Cobalt Oxide | x | ✓ | ✓ | ✓ | x | x | ✓ | x | ✓ |
| Graphite | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | x |
| Electrolyte | x | x | x | x | x | x | x | x | x |
| Copper | ✓ | ✓ | x | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Aluminum | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

| | |
|--------------|---|
| EC Inventory | European Inventory of Existing Commercial Chemical Substances |
| TSCA | United States Toxic Substances Control Act Inventory. |
| DSL | Canadian Domestic Substances List. |
| IECSC | China Inventory of Existing Chemical Substances. |
| NZIOC | New Zealand Inventory of Chemicals |
| PICCS | Philippines Inventory of Chemicals and Chemical Substances. |
| KECI | Existing and Evaluated Chemical Substances |
| AICS | Australia Inventory of Chemical Substances. |
| ENCS | Existing And New Chemical Substances |

Law of the People's Republic of China on Prevention and Control of Occupational Diseases

Catalog of occupational hazard factors:

Listed. Inhalation of dust/particles.
Chemical hazards.

Catalog of occupational diseases:

Listed. pneumoconiosis. Occupational poisoning.

| Chemical name | Category |
|---------------|------------------------------|
| Graphite | Inhalation of dust/particles |
| Copper | Chemical hazards |
| Aluminum | Inhalation of dust/particles |
| Polyethylene | Inhalation of dust/particles |
| Nickel | Chemical hazards |

Regulations on the Control over Safety of Hazardous Chemicals

Inventory of hazardous chemicals

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed.

| Chemical name | Serial number | Inventory of hazardous chemicals |
|--------------------|---------------|----------------------------------|
| Dimethyl carbonate | 2110 | Listed |
| Aluminum | 1377 | Listed |

GB 18218-2018 Identification of major hazard installations for dangerous chemicals

Not applicable

List of hazardous chemicals under priority management

Not applicable

Regulations on Labor Protection in Workplaces Where Toxic Substances Are Used

Inventory of highly toxic goods

| Chemical name | TWA (time-weighted average) | STEL (Short Term Exposure Limit) | Maximum limit value |
|---------------|-----------------------------|----------------------------------|---------------------|
| Nickel | 1 mg/m ³ | 2.5 mg/m ³ | |

Regulations for Environmental Management on the First Import of Chemicals and the Import and Export of Toxic Chemicals

List of toxic chemicals severely restricted for import and export in China

Not applicable

Measures for the Environmental Management of New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances Contact supplier for inventory compliance status.

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

| | |
|--|---|
| U.S. Federal regulations | TSCA Status: All ingredients in these products are listed on the TSCA inventory. OSHA: These products do not meet criteria as per Part 1910.1200, manufactured article. SARA EPA Title III: None. Sec. 302/304: None. Sec. 311/312: None. Sec. 313: None. CERCLA RQ: None. |
| EC Classification for the Substance/Preparation | These products are not classified as hazardous according to Regulation (EC) No. 1272/2008. Keep out of the reach of children. |
| EU Regulations: | Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I: Not listed. Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II: Not listed. |
| | Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I as amended: Not listed. Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended: Not listed. Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended: Not listed. Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended: Not listed. Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended: Not listed. Regulation (EC) No. 166/2006, REACH Article 59(10) Candidate List as currently published by ECHA: Not listed. |
| EU Authorizations: | Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended: Not listed |
| EU Restrictions on use: | Regulation (EC) No. 1907/2006, REACH Annex XVII Directive 2004/37/EC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding: Not listed |
| Other EU Regulations | Directive 96/82/EC (Seveso II) on the control of major accident hazards involving dangerous substances: Not listed. Directive 94/33/EC on the protection of young people at work: Not listed. This Safety Data Sheet complies with the requirements of Regulation (EC) No. 1907/2006. |

16. Other information

Issuing Date 18-Jul-2023

Revision Date 11-Dec-2025

Revision Note 3rd Revision based on the latest updates.

Abbreviations and acronyms

Legend Section 8: Exposure controls/personal protection

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

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

Disclaimer

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This file is only effective to the battery SRYLBM applicable to UPS models;SRYL5K15XLT18, SRYL5K15XLT24, SRYL5K20XLT18, SRYL5K20XLT24, SRYL10K15XLT18, SRYL10K15XLT24, SRYL10K20XLT18, SRYL10K20XLT24, SRYL15K15XLT18, SRYL15K15XLT24, SRYL15K20XLT18, SRYL15K20XLT24, SRYL20K20XLT18, SRYL20K20XLT24, SRYL4K13XLM24, SRYL4K18XLM24, SRYL5K15XLT18, SRYL5K15XLT24, SRYL5K20XLT18, SRYL5K20XLT24, SRYL9K13XLM24, SRYL9K18XLM24, SRYL10K15XLT18, SRYL10K15XLT24, SRYL10K20XLT18, SRYL10K20XLT24, SRYL13K13XLM24, SRYL13K18XLM24, SRYL15K15XLT18, SRYL15K15XLT24, SRYL15K20XLT18, SRYL15K20XLT24, SRYL18K18XLM24, SRYL20K20XLT18, SRYL20K20XLT24, SRYL5K15RMXLT, SRYL5K20RMXLT, SRYL10K15RMXLT, SRYL10K20RMXLT, SRYL15K15RMXLT, SRYL15K20RMXLT, SRYL20K20RMXLT, SRTL8KRM4UT, SRTL10KRM4UT, SRTL8KRM4UI, SRTL10KRM4UI, SRTL8KRM4UJ, SRTL10KRM4UJ, SRTL8KRM4UT-5KTF, SRTL10KRM4UT-5KTF2, SRTL10KRM4UT-10KTF, SRTL5KRM2UT, SRTL5KRM2UI, SRTL5KRM2UJ, and external battery packs SRTL180RM2UBP, SRTL180RM2UBPJ and SRTL180RM2UBPUS provided by commissioner Schneider Electric IT Corporation, which is manufactured by Schneider Electric IT USA, Schneider Electric IT Corp. The commissioner provides the composition information of batteries and promises its integrity and accuracy. Users should read this file carefully and use the batteries in correct method. Schneider Electric doesn't assume responsibility for any damage or loss because of misuse of batteries.

| Country | Greeting Language | Number Type | Local Number | Toll-Free Number | Zone |
|-----------|---------------------------|--------------|------------------|------------------|---------------|
| Argentina | Latin American Spanish | Local (City) | +54 11 5983-9431 | | South America |
| Australia | English | Local (City) | +61 2 9037 2994 | | Oceania |
| Australia | English | Toll Free | | 1800 862 115 | Oceania |

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|--------------------|-----------------------------|----------------------------|-------------------|---------------|-----------------|
| Austria | Austro-Bavarian and German | Local (City) | +43 1 3649237 | | Europe |
| Austria | Austro-Bavarian and German | Toll Free - Mobile Enabled | | 0800 293702 | Europe |
| Belgium | French, Flemish, and German | Local (City) | +32 2 808 32 37 | | Europe |
| Bolivia | Latin American Spanish | Toll Free | | 800 10 1913 | South America |
| Brazil | Portuguese | Local (City) | +55 21 3958-1449 | | South America |
| Brazil | Portuguese | Local (City) | +55 11 4349-1359 | | South America |
| Brazil | Portuguese | Toll Free - Mobile Enabled | | 0800 892 0479 | South America |
| Bulgaria | Bulgarian | Local (City) | +359 32 570 104 | | Europe |
| Canada | English | Local (City) | +1 703-572-3887 | | North America |
| Cayman Islands | English | Local (National) | 1 (345) 749-8392 | | Central America |
| Chile | Latin American Spanish | Local (City) | +56 2 2581 4934 | | South America |
| China | Mandarin | Local (National) | 400 120 4937 | | Asia |
| Colombia | Latin American Spanish | Local (City) | +57 601 7942539 | | South America |
| Costa Rica | Latin American Spanish | Local (National) | +506 4000 3869 | | Central America |
| Croatia | Croatian | Local (City) | +385 1 7776 920 | | Europe |
| Czech Republic | Czech | Local (City) | +420 228 880 039 | | Europe |
| Denmark | Danish | Local (National) | +45 69 91 85 73 | | Europe |
| Dominican Republic | Latin American Spanish | Local (City) | 1 (829) 956-7588 | | Central America |
| El Salvador | Latin American Spanish | Local (City) | +503 2136 7633 | | Central America |
| Estonia | Estonian | Local (National) | +372 668 1294 | | Europe |
| Finland | Finnish | Local (City) | +358 9 42725036 | | Europe |
| France | French | Local (National) | +33 9 75 18 14 07 | | Europe |
| Germany | German | Toll Free - Mobile Enabled | | 0800 1817059 | Europe |
| Greece | Greek | Local (City) | +30 21 1176 8478 | | Europe |
| Grenada | English | Local (City) | 1 (473) 230-0165 | | Central America |
| Guinea | French | Local (Mobile Restricted) | +224 660 71 03 00 | | Africa |
| Hong Kong | Cantonese | Toll Free | | | Asia |

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|-------------|-----------------------------------|--------------------------------------|-------------------|-----------------|
| Hungary | Hungarian | Local (City) | +36 1 808 8425 | Europe |
| Iceland | Icelandic | Local (City) | +354 539 0655 | Europe |
| India | Hindi, Bengali, and English | Local (City) | | South Asia |
| India | Hindi, Bengali, and English | International Toll Free (NON-RETAIL) | 000 800 1007 141 | South Asia |
| Ireland | English | Local (City) | +353 1 901 4670 | Europe |
| Israel | Hebrew | Local (City) | +972 3-763-0639 | Middle East |
| Italy | Italian | Local (City) | +39 02 4555 7031 | Europe |
| Italy | Italian | Toll Free - Mobile Enabled | 800 789 767 | Europe |
| Japan | Japanese | Toll Free | 0800-300-5842 | Asia |
| Latvia | | | | Europe |
| Lithuania | Lithuanian | Local (City) | +370 5 214 0238 | Europe |
| Luxembourg | Luxembourgish, French, and German | Local (National) | +352 20 20 24 16 | Europe |
| Macedonia | Macedonian | Local (City) | +389 2 551 7456 | Europe |
| Malaysia | Malay | Toll Free | 1800 81 5308 | Asia |
| Mexico | Latin American Spanish | Toll Free | 800 681 9531 | Central America |
| Mexico | Multilingual | Local (City) | +52 55 8526 4930 | Central America |
| Netherlands | Dutch | Local (National) | +31 85 888 0596 | Europe |
| New Zealand | English | Toll Free - Mobile Enabled | 0800 425 459 | Oceania |
| New Zealand | English | Local (City) | +64 9-801 0034 | Oceania |
| Nigeria | Hausa | Local (City) | +234-2012278883 | Africa |
| Panama | Latin American Spanish | Local (National) | +507 832-2475 | Central America |
| Peru | Latin American Spanish | Local (City) | +51 1 7071295 | South America |
| Philippines | Tagalog | Local (City) | +63 2 8 395 3308 | Asia |
| Philippines | Tagalog | Toll Free - Mobile Enabled | 1800 1 322 0553 | Asia |
| Poland | Polish | Local (City) | +48 22 398 80 29 | Europe |
| Portugal | Portuguese | Local (National) | +351 308 801 773 | Europe |
| Romania | Romanian | Local (National) | +40 376 300 026 | Europe |
| Russia | Russian | Toll Free - Mobile Enabled | 8 (800) 100-63-46 | Europe |
| Singapore | English and Mandarin | Local (National) | +65 3158 1349 | Asia |

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|---------------------|-------------------------|---|----------------------|----------------|------------------------|
| Singapore | English and Mandarin | Toll Free | | 800 101 2201 | Asia |
| Slovakia | Slovak | Local (City) | +421 2/330 579 72 | | Europe |
| Slovenia | Slovene/Slovenian | Local (City) | +386 1 888 80 16 | | Europe |
| South Africa | English | Toll Free | | 080 001 4676 | Africa |
| South Korea | Korean | Toll Free | | 080-880-0454 | Asia |
| Spain | European Spanish | Local (City) | +34-931768545 | | Europe |
| Spain | European Spanish | Toll Free - Mobile Enabled (NON-RETAIL) | | 900 868 538 | Europe |
| Sweden | Swedish | Local (City) | +46 8 525 034 03 | | Europe |
| Switzerland | French, German, Italian | Toll Free - Mobile Enabled | | 0800 564 402 | Europe |
| Switzerland | French, German, Italian | Local (City) | +41-435082011 | | Europe |
| Taiwan | Mandarin | Local (City) | +886 2 7741 4207 | | Asia |
| Taiwan | Mandarin | Toll Free | | 00801-49-1821 | Asia |
| Thailand | Thai | Toll Free | | 1800014808 | Asia |
| Trinidad and Tobago | English | Local (National) | 1 (868) 224-5716 | | Central America |
| Turkey | Turkish | Toll Free | | 0800 621 2401 | Middle East; Europe |
| Ukraine | | | | | Europe |
| United Kingdom | English | Local (City) | +44 20 3807 3798 | | Europe |
| United States | English | Local (City) | +1 703-527-3887 | | North America |
| United States | English | Toll Free | | 1-800-424-9300 | North America |