

Product Name Rechargeable Li-ion battery pack

Issuing Date 18-Jul-2023

(M)SDS Number SRYLBM-001

Revision Date 27-Apr-2026

Revision Number 4

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)	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.
General remark	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.

1. Identification

Product identifier

Product Name Rechargeable Li-ion battery pack

Other means of identification

Product Code(s) SRYLBM

UN/ID no UN 3480

Synonyms Lithium Cobalt Oxide (CoLiO2)

Other information Article

Details of the supplier of the safety data sheet

Supplier

Schneider Electric Private Limited
 Beary's Global Research Triangle, Sy. No 63/3B, Gorvigere Village, Whitefield
 Ashram Road, Bidarahalli Hobli, Bangalore 560067, India

Emergency Responder

Emergency telephone number CHEMTREC
 1-800-424-9300 (North America)
 +1703-572-3887 (Canada)
 Refer Page 15-17 for other countries

Picture of product covered by this safety data sheet



Recommended use of the chemical and restrictions on use

Recommended use Lithium ion batteries

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

2. Hazard(s) identification

Classification of the substance or mixture

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 - Dermal	Category 5
Skin sensitization	Category 1
Carcinogenicity	Category 2

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 27-Apr-2026

Revision Note 4th 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
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
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
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