

Product Safety Information / MSDS

LITHIUM ION BATTERIES (≤ 100 Wh)

Revision: 2025-02-28
Version: 1A

Replaces the Safety Data Sheet/MSDS. Please observe that safety data sheets are not legally required for articles. Batteries are "articles" and exempt from SDS/MSDS requirements.

Section 1: Identification of Product and Company

Product Name	Lithium ion batteries (≤ 100 Wh)
Supplier	Sundström Safety AB
Address	Västergatan 4 SE-34150 Lagan Sweden
Telephone	+46 10 484 87 00
E-mail	info@srsafety.se

Section 2: Hazards identification

Classification according to regulation (EC) No 1272/2008 (CLP): Not applicable for articles.

Section 3: Composition/information on ingredients

Not applicable for articles.

Section 4: First aid measures

Not applicable for articles.

Section 5: Firefighting measures

Extinguishing media

Dry powder is applicable for burning lithium ion batteries. Metal fire extinction powder, rock salt or dry sand are suitable if only a few batteries are involved. Carbon dioxide (CO₂) is only applicable for incipient fire.

Special hazards arising from the substance or mixture

When exposed to heat, the battery may rupture and release hazardous substances.

At contact of electrolyte with water traces of hydrofluoric acid may be formed.

In this case avoid contact and take care for good ventilation.

At contact of changed anode material with water extremely flammable hydrogen gas is generated.

Advice for firefighters

Use respiratory protection independent of recirculated air. Wear protective clothing.

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Under a normal condition of use, a battery is hermetically sealed and not hazardous. Leakage or release of hazardous materials contained within a battery would be possible under abusive conditions. Rubber gloves must be used to handle all battery components.

Environmental precautions

Not applicable for articles.

Methods and material for containment and cleaning up

In the event of battery rupture and leakage: contain the spills and cover the spills or leakage with dry sand or 1:1 mixture of soda ash and slaked lime. Avoid inhalation of any vapors that may be emitted.

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Section 7: Handling and storage

Precautions for safe handling

Do not crush, pierce, short (+) and (-) battery terminals with conductive (i.e. metal) goods, which would end up into excessive heating. Do not directly heat or solder. Do not throw batteries into fire or water. Do not mix batteries of different types and brands. Do not mix new and used batteries. Keep batteries in non conductive (i.e. plastic) trays. Do not disassemble, mutilate or mechanically abuse cells and batteries. Avoid deep discharge. Follow manufacturers recommendations regarding maximum recommended currents and operating temperature range.

Conditions for safe storage, including any incompatibilities

Store in a cool (preferable below 30°C), well ventilated area, away from moisture, sources of heat, open flames, food and drink. Elevated temperatures can result in shortened battery life. Temperatures above 70°C may result in battery leakage and rupture. Keep adequate clearance between walls and batteries. Since short circuit can cause burn, leakage and rupture hazard, keep batteries in original packaging until use and do not jumble them. Preferred storage at 50% of nominal battery capacity.

A fire alarm is recommended in case of storage of large amounts.

Section 8: Exposure controls/personal protection

Control parameters

Not applicable for articles.

Exposure controls

Individual protection measures, such as personal protective equipment: Not necessary under normal conditions.

Section 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance: Lithium ion battery

Other information

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Section 10: Stability and reactivity

Reactivity

Not applicable.

Chemical stability

Stable under the recommended storage and handling conditions.

Possibility of hazardous reactions

Not applicable.

Condition to avoid:

Heat above 70° or incinerate. Deform. Mutilate. Crush. Pierce. Disassemble. Short circuit. Expose over a long period to humid conditions.

Incompatible materials

Strong mineral acids, alkali solutions, strong oxidising materials and conductive materials.

Hazardous decomposition products

HF, CO, CO₂

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Not applicable for articles.

Section 12: Ecological information

Not applicable for articles.

Section 13: Disposal consideration

Do not dispose in fire or submerge in water.

Battery disposal regulations vary on national, state/provincial and local bases.

Disposal must be conducted in accordance with the applicable laws and regulations.

Section 14: Transport Information

UN number	UN 3480
UN proper shipping name	Lithium ion batteries
Transport hazard class(es)	9
Packing group	-
Environmental hazards	No

UN Transportation Testing Yes, the lithium ion batteries have passed the test required in section 38.3 of the UN Manual of Tests and Criteria.

Test Summary Available upon request.

Watt Hour Rating (Wh) Range from 30,4 to 54 Wh

Transport conditions

LAND Shipments from Sundström Safety AB are compliant with
Special Provision 188 of the ADR/RID.

Lithium-ion batteries ≤ 100 Wh

Packages are marked with:



No requirement for Dangerous Goods Declaration (DGD) in SP 188.

SEA Shipments from Sundström Safety AB are compliant with
Special Provision 188 of the IMDG Code.

Lithium-ion batteries ≤ 100 Wh

Packages are marked with:



No requirement for Dangerous Goods Declaration (DGD) in SP 188.

Section 15: Regulatory information

This product is an article.

Section 16: Other information

None.