

Safety Data Sheet (SDS) – Lithium-ion Battery

In accordance with Regulation (EC) No 1907/2006 (REACH) and (EC) No 1272/2008 (CLP)

1. Identification of product and company

Product Name: Lithium-ion Battery

Product Code: MBXLE-BA0257

Use: Power source for electronic devices

Specifications: 48.96Wh, 4250mAh, 11.52V

Supplier: EET Group A/S, Bregnerødvej 133 D, 3460 Birkerød, Denmark

Email: EET_privatelabel_support@eetgroup.com

Phone number: +45 45 82 19 19

Emergency Phone Number: 112

2. Hazards identification

Classification: Not classified as hazardous according to CLP, but contains hazardous components.

It may cause heat generation or electrolyte leakage if battery terminals contact with other metals. Electrolyte is flammable. In case of electrolyte leakage, move the battery from fire immediately.

Hazard Statements: H228: Flammable solid, H302: Harmful if swallowed, H319: Causes serious eye irritation, H373: May cause damage to organs through prolonged or repeated exposure.

Pictograms:



Signal Word: Warning

Precautionary Statements: P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking, P280: Wear protective gloves/protective clothing/eye protection/face protection, P370+P378: In case of fire: Use CO₂, dry powder, foam to extinguish.

3. Composition/information on ingredients

Chemical Name	Chemical Formula	CAS Number	Weight (%)
Lithium cobaltate	LiCoO ₂	12190-79-3	15-40
Graphite	C _x A _x 12	7782-42-5	10-30
Lithium hexafluorophosphate	LiPF ₆	21324-40-3	10-30
Copper	Cu	7440-50-8	7-13
Aluminium	Al	7429-90-5	5-10
Nickel	Ni	7440-02-0	1-5

4. First aid measures

Skin Contact: Wash with water and soap. Remove contaminated clothing.

Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Seek medical attention.

Inhalation: Remove to fresh air immediately.

Ingestion: Rinse mouth. Do not induce vomiting. Seek immediate medical attention.

5. Firefighting measures

Suitable Extinguishing Media: CO₂, dry powder, foam.

Unsuitable Extinguishing Media: Water jet.

Special Hazards: Release of toxic fumes (HF, CO).

Protective Equipment: Respiratory protection and full protective suit.

6. Accidental release measures

In case of leakage

Personal Precautions: Use protective equipment.

Environmental Precautions: Avoid discharge into sewage and waterways.

Methods for Cleaning Up: Collect with non-combustible absorbent material.

7. Handling and storage

Handling: Avoid short-circuiting, puncturing, and overheating.

Storage: Dry, cool, and ventilated area. Avoid direct sunlight.

8. Exposure controls/personal protection

Exposure Limits: None specific for the battery, but for components in case of leakage.

Exposure Limits: Nickel: 0.1 mg/m³ (inhalable), Copper (dust and fumes): 0.01 mg/m³.

9. Personal Protective Equipment: Gloves, safety glasses, respiratory protection in case of leakage.

Form: Solid (closed battery unit)

Color: Varies

Odor: None

Voltage: 11.52V

Capacity: 48.96Wh

Energy: 4.25A

Flash Point: Not applicable for closed battery

Solubility: Not soluble in water

10. Stability and reactivity

Stability: Stable under normal conditions as described in point 7.

Hazardous Reactions: Release of toxic fumes if heated.

11. Toxicological information

Acute Toxicity: Low under normal use.

Irritation: Possible in case of leakage.

Sensitization: Not known.

12. Ecological information

Ecotoxicity: Harmful to aquatic environment in case of leakage

Degradability: Not biodegradable

Bioaccumulation: Possible for certain components

13. Disposal considerations

Waste Treatment: Must be disposed of as hazardous waste and in accordance with national rules

EWC Code: 16 06 05 (batteries containing hazardous substances)

14. Transport information

UN Number: UN3480 (Lithium-ion batteries)

Transport Hazard Class: Class 9

Packaging Group: II

Special Precautions: Must comply with UN 38.3 requirements

During the transportation of a large amount of batteries by ship, trailer or railway, do not leave them in places with high temperatures and do not allow them to be exposed to condensation.

During transportation do not allow packages to drop or be damaged.

Lithium ion or Lithium polymer batteries identified by manufacturer as being defective for safety reasons, or that have been damaged, or have the potential of producing a dangerous overheating, producing fire or short circuit are forbidden for transport (e.g. those being returned to the manufacturer for safety reasons).

A. Each consignment must be accompanied with a document such as air waybill with an indication that:

- I. The package contains lithium ion, lithium polymer cells or batteries
- II. The package must be handled with care and that a flammability hazard exists if the package is damaged;
- III. Special procedures should be followed in the event the package is damaged, to include in section and repacking if necessary

B. Each package must be labeled with a lithium battery handling label

C. Each package must be capable of withstanding a 1.2 m drop test in any orientation without:

- I. Damage to cells or batteries contained therein;
- II. Shifting of the contents to allow battery to battery (or cell to cell) contact;
- III. Release of contents (Leakage).

15. Regulatory information

This product is subject to the following applicable EU legislation and standards:

REACH Regulation (EC) No 1907/2006 - Components are registered under REACH. Registration numbers available upon request.

CLP Regulation (EC) No 1272/2008 - Classification and labeling according to CLP.

Battery Regulation (EU) 2023/1542 - Compliance with battery-specific regulations.

Waste Directive 2008/98/EC - Disposal as hazardous waste.

Transport Rules – Compliance with UN 38.3 requirements.

16. Other information

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Disclaimer: This SDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material.