

1. Product & Company Information

Fliteboard Pty Ltd
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Product Specification / Technical Datasheet



PRODUCT CODE	Flitecell Explore 40Ah	CAPACITY	40Ah / 2080 Wh
MOUNT	Flat for sealed compartment	VOLTAGE (NOMINAL)	52v
CELL CHEMISTRY	Li[NiMnCo]O ₂ (H-NMC) / Graphite + SiO	DIMENSIONS	392mm x 2308mm 80mm
NUMBER OF CELLS	196	WEIGHT	13900g

2. Composition/Information on Ingredients

Characterisation

Battery Pack including Lithium metal oxide battery cells. The pack consists of 196 cells type LG HG2 18650.

Important information

The battery should not be opened, heated above 60°C or burned since the exposition with the ingredients could be harmful under certain conditions. Use only original charger. The product contains neither metallic lithium nor lithium alloy.

Composition

- Kathode: Lithium-Metal Oxide (active material)
- Polyvinylidene Fluoride (binder)
- Graphite (conductive material)
- Aluminum Foil
- Anode Carbon (active material)
- Polyvinylidene fluoride (binder)
- Copper Foil
- Electrolyte Organic Solvent (non-aqueous liquid)
- Lithium Salt

3. Possible Risks

Not classified as dangerous according the EC-Guideline 1999/45/EG.

4. First aid measures

The batteries are hermetically closed. A risk of exposure can only occur when the cells are mechanically abused. The following first aid measures therefore only refer to the handling in the case of release of the ingredients and not on the use of the battery under normal conditions.

General information

Protection for first aid: Acid-resistant gloves or equivalent. After first aid measures a doctor should be consulted.

In case of eye contact:

- In case of eye contact rinse thoroughly with water
- Remove contact lenses if required
- Contact a doctor

In case of skin contact

- Take off contaminated clothes
- In case of skin contact wash off with water
- Contact a doctor

5. Fire-fighting measures

- Suitable extinguishing measures:
- Dry chemical (Class D)
 - Cover with sand
 - Water, with or without additives

Extinguishing measures that may not be used for safety reasons – Full water jet, metal fire extinguisher, CO₂, sand, Pyrobubbles

Special exposure hazards arising from the substance, combustible products or resulting gases. Fire fighting measures, rescue works and clearance works with impact of the smouldering fire fumes or fire gases should only be carried out with suitable respiratory protective equipment.

Additional information

Residues of fires and chemically contaminated water should be disposed in compliance with the local regulations.

6. Accidental release measures

- Personal precautions
- Use personal protective clothing
 - Avoid skin contact
 - Respect section 4

7. Handling and storage

- Store in well ventilated cool areas
- Avoid Overheating, e.g. through incident solar radiation
- Protect from air humidity and water
- Do not short-circuit
- Storage temperature < 40°C
- For long term storage a charge state of 75% (2 LED on) is optimal

8. Exposure controls / personal protection

If handled in a suitable way, no personal protective equipment is necessary.

9. Physical and chemical properties

Compact Battery Pack with plastic and aluminum housing. The product neither contains metallic lithium nor lithium alloys.

10. Stability and Reactivity

Conditions to be avoided
Temperature >60°C
Shock in all axes
Mechanical forces greater than in normal use.

11. Toxicology

No risk if handled reasonable. In case of damages or improper use irritant or sensitizing ingredients may get released.

12. Ecology

No negative ecological effects are expected if the product is used and disposed according to local regulated guidelines.

13. Disposal

Batteries have to be collected separately from other waste. Avoid short circuits during collecting or storing. According to EU Directive 2006/66/EC the one who brings the battery on the market is responsible for a suitable collection and recycling of the battery system. Use only containers approved for collection.

14. Transport Information

Transport-temperature <60°C

Package

- All packages must be undamaged
- Provide complete labelling and designation

Label

- Complete address of sender and recipient
- UN number UN 3480
- Include proper shipping name
- Gross weight

Designation

- Danger designation Class 9 with Class number in bottom corner

Land transport according to ADR/RID

- This product has to be transported according to
- Transport Description Lithium batteries, secondary
 - UN -No.-3480
 - Classification- 9
 - Packaging Class-II
 - Packaging Order-P903
 - Limitations-gross weight <333kg
 - Special Provision-310 (Chapter 3.3 ADR for Europe)
 - Tunnel code -E

Sea ship / ocean route according to IMDG

- This product has to be transported according to
- Transport Description Lithium batteries, secondary
 - UN -No. 3480
 - Classification 9
 - Packaging Class II
 - Packaging Order P903
 - Special Provision 310 (Chapter 3.3 IMDG Code)

Air transport according to IATA-DGR 2016 Update III

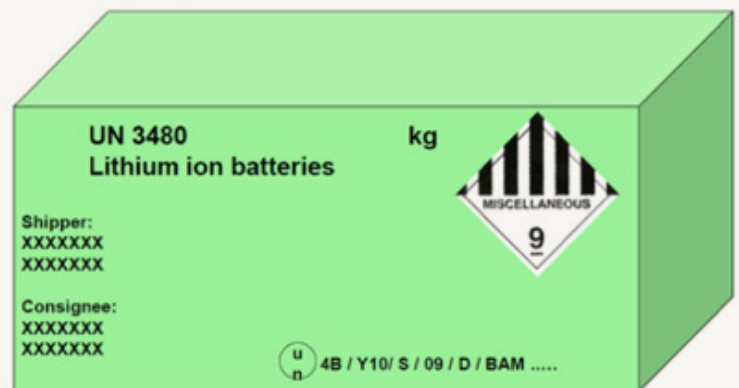
- This product has to be transported according to
- Transport Description Lithium batteries, secondary
 - UN -No. 3480
 - Classification 9
 - Packaging instruction PI965 Part IA
 - Limitation 5kg net weight in passenger aircraft, 35kg net weight in cargo aircraft
 - Packager qualification IATA-qualification in compliance with 1.5

15. Other information

Data and recommendations based on regular use of the product (in this sense consult information on use and on product). For a regular use of the product please refer to the user manual. The information describes exclusively the safety requirements for the product (s) and is based on the present level of our knowledge.

1. Labeling for Carriage by Air

Correct Labeling for passanger aircraft



Correct Labeling for cargo aircraft

