**Safety Data Sheet (SDS)**

**JuiceBox- Energy Storage System**
**Containing PM2.0 Lithium-ion Battery Modules**

## 1. Identification of the substance/mixture and of the company

**Product name:** JuiceBox - Energy Storage System
**Product use:** Movable energy storage
**Battery module:** PM2.0 Lithium-ion module (CATL EB311-2P16S)
**Manufacturer of battery module:** LEDEN Group OY, Finland
**Supplier / System integrator:** Ayond AS, Espehaugen 51, 5258 Blomsterdalen, Norway
**Emergency number:** National Poison Centre (Norway): +47 22 59 13 00

## 2. Hazard identification

- Contains **Lithium-ion NMC batteries**, classified as dangerous goods for transport.
- **UN numbers:** UN3480 (batteries), UN3481 (batteries in equipment)
- **Hazard class:** Class 9 – Miscellaneous dangerous substances
- **Primary hazards:** Fire, thermal runaway, gas release, electric shock (up to 1000 VDC)

## 3. Composition / information on ingredients

- **Chemistry:** Lithium-ion NMC (Nickel Manganese Cobalt)
- **Energy content:** 11 kWh per module; up to 165 kWh per system
- **Voltage:** 58.72 V per module; up to 888 VDC per system
- **Weight:** 63 kg per module
- **Components:** Lithium-ion cells, electrolyte, steel/aluminium casing, BMS

## 4. First aid measures

**Inhalation:** Move to fresh air; seek medical attention if symptoms occur.
**Skin contact:** Wash with soap and water.
**Eye contact:** Rinse with water for 15 minutes; seek medical attention.

**Ingestion:** Do not induce vomiting; seek immediate medical attention.
**Smoke exposure:** Treat as chemical inhalation.

## 5. Firefighting measures

**Suitable extinguishing media:** Dry chemical, $CO_2$, foam
**Not suitable:** Direct water application
**Special hazards:** Thermal runaway, toxic/flammable gases, re-ignition risk
**Protective equipment:** Full protective gear and SCBA

## 6. Accidental release measures

- Evacuate area if smoke, gas or heat is present
- Use PPE: gloves, goggles, protective clothing
- Do not touch damaged modules
- Collect debris in approved containers
- Contact hazardous waste handler

## 7. Handling and storage

**Handling:** Avoid shock, puncture, crushing, short-circuit; trained personnel only.
**Storage:** 5°C to 28°C (short-term −20°C to +40°C), 0–80% RH, dry and ventilated.

## 8. Exposure controls / personal protection

- No exposure expected during normal operation
- During service: gloves, goggles, protective clothing
- Ensure ventilation when handling damaged batteries

## 9. Physical and chemical properties

- Appearance: Solid enclosed module
- Colour: Multicolour

- Odour: None
- Weight: 63 kg per module
- State: Solid, sealed unit

**10. Stability and reactivity**

Stable under normal conditions. Avoid overheating, short-circuit, mechanical damage, water exposure.

**11. Toxicological information**

- No toxic exposure during normal use
- Electrolyte may irritate skin/eyes if released
- Smoke inhalation may cause respiratory irritation

**12. Ecological information**

- Not environmentally hazardous under normal use
- Damaged batteries may release harmful substances
- Prevent release to soil or water

**13. Disposal considerations**

- Treat as hazardous waste
- Recycle through approved battery facilities
- Follow EU and local battery disposal regulations

**14. Transport information**

**UN number:** UN3480 / UN3481
**Class:** 9
**Proper shipping name:** Lithium-ion batteries

**Regulations:** ADR / RID / IMDG / ICAO
**Certification:** PM2.0 module tested according to UN38.3 (Test report EYVON2024-0001)

## 15. Regulatory information

Complies with:

- 2014/35/EU – Low Voltage Directive
- 2014/30/EU – EMC Directive
- 2023/1542 – Battery Regulation
- 2023/988 – General Product Safety Regulation
- 2011/65/EU – RoHS2

Standards: EN 62619:2022, EN 61000-6-2/-6-4, EN 62477-1

## 16. Other information

- SDS prepared by Ayond AS based on available documentation after Evyon's bankruptcy
- Battery module manufactured by LEDEN Group OY
- Information derived from Evyon datasheet, EU Declaration of Conformity, and UN38.3

**This SDS is provided for informational purposes and must be updated if product or regulatory changes occur.**

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