ViB-ProX and ViB-Pro SaS Safety Data Sheet

Version 1.0 · 2026

Shipping summary

Each unit contains two small lithium-ion batteries of 8.5 Wh each, well inside the IATA limits for Section II shipping. Units ship as **UN3481, Lithium ion batteries contained in equipment**, under Packing Instruction 967 Section II, with no Dangerous Goods Declaration required.

Item	ViB-ProX / ViB-Pro SaS	Section II limit	Within limit
Energy per cell	8.46 Wh	20 Wh	Yes
Energy per battery	8.46 Wh (single-cell battery)	100 Wh	Yes
Cells per unit	2 (two single-cell batteries in parallel)	No lithium battery mark needed for up to 4 cells per package	Yes, up to 2 units per package
Total energy per unit	16.9 Wh	No per-unit limit	Yes
Lithium-ion battery mass per package	Under 100 g per unit	5 kg net	Yes

Lithium battery mark: each unit contains 2 cells, and a package can hold up to 4 cells without the mark. So you can ship up to 2 units in one package without the mark, as long as the shipment is no more than 2 packages. Use the mark (showing UN3481 and a contact phone number) if a package holds 3 or more units, or if the shipment is 3 or more packages, even with one unit in each.

1. Identification

Item	Details
Product names	ShotTrack ViB-ProX and ViB-Pro SaS
Product type	Battery-powered vibration monitor (article containing lithium-ion batteries)

Item	Details
Recommended use	Blast and construction vibration monitoring
Supplier	ShotTrack Pty Ltd, ABN 43 168 396 183
Address	Unit 4, 21-23 Hurley Drive, Coffs Harbour NSW 2450, Australia
Phone	+61 427 433 721 (business hours)
Email	support@shottrack.com.au
Emergency phone	+61 427 433 721 (ShotTrack, business hours)

2. Hazards identification

The unit is a sealed article. It is not classified as hazardous under the GHS in normal use, because the batteries are sealed inside the housing and the user cannot reach them.

If the unit is crushed, punctured, burnt or heated above its rated limits, the batteries can overheat, vent flammable electrolyte vapour, or catch fire.

3. Composition and battery information

Item	Details
Battery chemistry	Lithium-ion, rechargeable (not lithium metal)
Battery model	Enepower LIPB-103450-1S1P-109D, 2 per unit
Cell	One Panasonic NCA103450 lithium-ion cell per battery, supplied through Master Instruments
Nominal voltage	3.6 V
Capacity	2.35 Ah per battery; 4.7 Ah per unit (2 batteries in parallel)
Energy	8.46 Wh per battery; 16.9 Wh per unit
Charging	Managed by the unit's internal smart charger, with battery state of charge monitoring; charges only between +10°C and +45°C
Battery mass	Under 50 g per battery; under 100 g per unit

Item	Details
Unit mass	Under 500 g
User replaceable	No. Batteries are sealed inside the housing
Other materials	Nickel-plated aluminium alloy base, nylon lid, electronic circuit boards. Cell contents (sealed metal case): lithium oxide (CAS 12057-24-8), nickel oxide (1313-99-1), manganese dioxide (1313-13-9), cobalt (II) oxide (1307-96-6), graphite (7782-42-5), ethylene carbonate (96-49-1), diethyl carbonate (105-58-8) and lithium hexafluorophosphate (21324-40-3), per the battery supplier's SDS

4. First aid

No exposure is expected from an intact unit. These measures apply only if a battery has been damaged and is leaking or venting.

- **Inhalation:** move to fresh air. Seek medical attention if irritation continues.
- **Skin:** remove contaminated clothing and wash with plenty of water for at least 15 minutes.
- **Eyes:** rinse with water for at least 15 minutes, holding eyelids open. Seek medical attention.
- **Ingestion:** rinse mouth with water. Do not induce vomiting. Seek medical attention.

5. Firefighting

- **Extinguishing media:** dry chemical powder, alcohol-resistant foam, CO_2 or water as a fine spray. Use large amounts of water to cool a unit that is already burning and stop the fire spreading.
- **Special hazards:** a burning battery can give off irritating or toxic gases, including hydrogen fluoride and carbon monoxide. Batteries can reignite after the fire appears to be out.
- **Protective equipment:** firefighters should wear full protective clothing and self-contained breathing apparatus.

6. Accidental release

An intact unit cannot release anything. If a unit is damaged and a battery is leaking, ventilate the area, wear gloves and eye protection, keep it away from ignition sources, and place it in a non-flammable container such as a metal bin with sand. Dispose of it as in section 13.

7. Handling and storage

- Do not crush, puncture, open or modify the unit.
- Do not expose to fire or temperatures above +60°C.
- Charge only between +10°C and +45°C, with the supplied charger.
- Store between -20°C and +40°C for up to 3 months, or -20°C to +20°C for up to 1 year.
- Store dry, away from heat sources and flammable materials.

8. Exposure controls and personal protection

No exposure controls are needed for an intact unit. For a damaged or leaking unit, use the protective equipment in section 6.

9. Physical and chemical properties

Property	Value
Form	Solid article: round sealed housing, Ø133 × 36 mm
Mass	Under 500 g
Odour	None
Ingress protection	IP68 (not while charging)
Operating temperature	-20°C to +60°C

10. Stability and reactivity

The unit is stable under normal conditions of use and storage. Avoid heat above +60°C, fire, crushing, puncture, immersion beyond the IP68 rating and short circuit. Hazardous decomposition products, in a fire only, include hydrogen fluoride, carbon monoxide and metal oxides.

11. Toxicological information

No toxicological hazard is expected from an intact unit. Electrolyte released from a damaged battery can irritate the skin, eyes and airways.

12. Ecological information

No environmental release is expected in normal use. Do not dispose of the unit in landfill, fire or water.

13. Disposal

Dispose of the unit as electronic waste, and its batteries through a lithium battery recycling scheme, following local regulations. In Australia, units can be returned to ShotTrack or taken to a B-cycle battery drop-off or e-waste recycler.

14. Transport information

Item	Details
UN number	UN3481
Proper shipping name	Lithium ion batteries contained in equipment
Transport hazard class	9 (Section II shipments are not fully regulated as Class 9)
Packing group	Not applicable
Marine pollutant	No

Air (IATA DGR, ICAO Technical Instructions)

- Ships under **Packing Instruction 967, Section II**: each cell is no more than 20 Wh and each battery no more than 100 Wh.
- No Dangerous Goods Declaration is needed. Write "Lithium ion batteries in compliance with Section II of PI967" on the air waybill, if the carrier requires it. For DHL, complete their lithium battery transport document: tick "UN3481 Lithium Ion Batteries in compliance with Section II of PI967" for air, and "Lithium Ion Batteries not restricted as per ADR / IMDG SP 188" for road and sea.

- **Lithium battery mark:** not needed for up to 2 units (4 cells) in one package, when the shipment is no more than 2 packages. Required on a package with 3 or more units, and on every package when the shipment is 3 or more packages.
- Net mass of lithium-ion batteries per package: no more than 5 kg.
- Pack in strong rigid outer packaging. The carry case inside a shipping box is suitable.
- Make sure the unit is not armed or recording during transport, so it cannot switch on accidentally.
- **State of charge:** IATA recommends shipping at no more than 30% charge for batteries contained in equipment. This is a recommendation for PI 967, not a requirement. ShotTrack recommends shipping units at 30% charge or less where practical, and fully charging them before deployment.

Sea (IMDG Code)

UN3481, Class 9. Units meeting Special Provision 188 (cells up to 20 Wh and batteries up to 100 Wh) are not subject to the other provisions of the IMDG Code.

Road and rail (Australian Dangerous Goods Code)

UN3481, Class 9. Units meeting Special Provision 188 are not subject to the other provisions of the ADG Code.

15. Regulatory information

- Under the GHS and Australian WHS Regulations, the unit is an article. This document is supplied to support safe handling and transport.
- Transport: IATA Dangerous Goods Regulations (2026, 67th edition), ICAO Technical Instructions, IMDG Code and Australian Dangerous Goods Code.

16. Other information

- Battery supplier SDS: Panasonic Lithium-ion Batteries (All Sizes), Master Instruments Pty Ltd, Chemwatch 36-8109.
- The information here is based on ShotTrack's current knowledge and the battery supplier's data. Carriers can set their own requirements, so check with the carrier before shipping.

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