

1. Identification

Product identifier	PIP G5 EX Lithium-ion Battery
Other means of identification	Rechargeable lithium-ion battery; G5 EX battery pack.
Battery rating	10.8 V, 6.2 Ah, 66.96 Wh
Recommended use	Rechargeable power source designed exclusively for the PIP G5 EX powered air-purifying respirator (PAPR).
Restrictions on use	Use only with approved PIP G5 EX equipment and specified charger. Do not disassemble, modify, crush, puncture, short-circuit, incinerate or charge in a hazardous location.

Details of Australian and New Zealand supplier/importer

Company name	PIP ANZ
Australian supplier	Level 5, 163/175 O'Riordan Street, Mascot NSW 1460, Australia Customer Service: 1300 770 723 Technical Support: 1300 275 820
New Zealand contacts	Customer Service: 0800 888 778 Technical Support: 0800 888 778
Email / website	info@pipanz.com www.pipanz.com
Emergency phone numbers	Australia: Poisons Information Centre 13 11 26; emergency 000. New Zealand: National Poisons Centre 0800 POISON (0800 764 766); emergency 111.

2. Hazard Identification

Classification of the hazardous chemical

Article status	The intact sealed battery is an article and is outside the scope of GHS classification under normal conditions of use.
Physical hazards	Not classified when intact. A damaged, defective, overheated or improperly charged battery may vent flammable electrolyte, ignite, rupture or explode.
Health hazards	No exposure expected during normal use. Internal electrolyte may cause serious eye and skin irritation or burns; vapours and decomposition products may be harmful if inhaled.
Environmental hazards	Internal contents may be harmful to the environment if released. Prevent entry to drains, soil and waterways.

Label elements, including precautionary statements

Hazard symbols for damaged/leaking contents	GHS02 Flame	GHS07 Exclamation mark	GHS08 Health hazard
No pictogram required for the intact sealed battery under normal use. Icons apply only to damaged, leaking, ruptured, venting or burning contents.			
Signal word	Danger - applicable only to released internal contents from a damaged, leaking, ruptured, venting or burning battery.		
Hazard statements	Internal electrolyte may be flammable and may cause serious eye irritation, skin irritation or chemical burns. Vapours and decomposition products may be harmful if inhaled. A damaged or overheated battery may vent, ignite, rupture or explode.		
Precautionary statements	Keep away from heat, sparks, open flames and hot surfaces. Do not crush, pierce, short-circuit, disassemble, incinerate or mechanically abuse. If damaged or leaking, avoid breathing vapours and avoid skin or eye contact. Wear protective gloves, protective clothing and eye/face protection.		
Emergency information	If the battery becomes hot, emits odour, changes colour, leaks, vents, swells or produces smoke, stop use, isolate from combustible materials if safe to do so and contact emergency services where fire or immediate danger exists.		

3. Composition and Information on Ingredients

Sealed lithium-ion battery. Ingredients are contained within a sealed enclosure and are not intended to be released during normal use.

Component / material	CAS No.	Approx. concentration	Notes
Lithium transition-metal oxide (positive electrode active material)	12190-79-3 and related oxides	20-60%	Proprietary mixed-metal oxide cathode material.
Aluminium / aluminium laminate	7429-90-5; 7429-89-6	1-30%	Current collector and enclosure components.
Carbon / graphite (negative electrode active material)	7782-42-5; 7440-44-0	10-30%	Carbonaceous anode material.
Organic carbonate electrolyte solvents	623-53-0; 105-58-8; 96-49-1	5-25%	Includes ethyl methyl carbonate, diethyl carbonate and ethylene carbonate.
Lithium hexafluorophosphate	21324-40-3	Part of electrolyte	Electrolyte salt.
Copper	7440-50-8	1-15%	Negative electrode current collector.

Exact formulation is proprietary. The concentration ranges above are based on supplier technical information and describe the battery as manufactured.

4. First Aid Measures

General	No first aid is normally required for an intact battery. The following measures apply to exposure following leakage, venting, rupture or fire.
Inhalation	Move to fresh air. Keep at rest. If breathing is difficult, trained personnel may administer oxygen. If not breathing, commence CPR. Seek urgent medical attention.

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Skin contact	Remove contaminated clothing, footwear and jewellery. Rinse affected skin with running water for at least 20 minutes. Seek medical attention for burns, persistent irritation or extensive exposure.
Eye contact	Immediately rinse cautiously with clean running water for at least 20 minutes, holding eyelids open. Remove contact lenses if easy to do. Seek urgent medical attention.
Ingestion	Rinse mouth. Do not induce vomiting. Contact Poisons: AU 13 11 26; NZ 0800 POISON (0800 764 766). Seek urgent medical attention.
Most important symptoms/effects	Irritation or burns to eyes, skin and respiratory tract; coughing, dizziness, headache, nausea or breathing difficulty following inhalation of vapours or fire decomposition products.
Advice to doctor	Treat symptomatically. Exposure may involve corrosive electrolyte and toxic combustion products, including hydrogen fluoride.

5. Firefighting Measures

Suitable extinguishing media	Use copious water spray to cool batteries and adjacent materials. For a small incipient fire, dry chemical, carbon dioxide or foam may be used while water remains the preferred cooling medium.
Specific hazards	Cells may vent flammable electrolyte, rupture or explode when heated. Thermal runaway may propagate to adjacent cells. Re-ignition can occur after apparent extinguishment.
Hazardous combustion products	May include carbon oxides, metal oxides, phosphorus compounds, hydrogen fluoride and other irritating, corrosive or toxic fumes.
Firefighter protection	Evacuate the area. Approach from upwind. Wear full structural firefighting clothing and positive-pressure self-contained breathing apparatus. Cool affected batteries from a protected position and monitor for re-ignition.
Hazchem / emergency guide	Refer to applicable transport documentation and the Australian and New Zealand Emergency Response Guidebook for the consignment configuration.

6. Accidental Release Measures

Personal precautions	Evacuate unnecessary personnel. Avoid contact with leaked material and avoid inhalation of vapours. Eliminate ignition sources. Ventilate the area where safe.
Protective equipment	Wear chemical-resistant gloves, safety goggles or face shield and protective clothing. Use suitable respiratory protection where vapours, smoke or decomposition products may be present.
Environmental precautions	Prevent electrolyte and contaminated wash water from entering drains, soil or waterways.
Containment and cleanup	Do not touch damaged cells with bare hands. Isolate the battery in a non-combustible, well-ventilated area away from combustibles. Absorb leaked electrolyte with dry sand, vermiculite or other inert non-combustible absorbent. Place residues and the battery in a compatible, non-metallic container for specialist disposal. Do not place a damaged battery in general waste.
Emergency response	For heating, smoking, hissing, swelling or fire, withdraw and call 000 (AU) or 111 (NZ). Do not transport a damaged or defective battery without specialist dangerous-goods advice.

7. Handling and Storage

Safe handling	Use only in accordance with PIP instructions. Inspect before use. Do not drop, crush, puncture, open, modify or expose to mechanical shock. Prevent short circuits and reverse polarity. Keep terminals and contacts clean and dry.
Charging	Remove the battery from the PAPR before charging. Use only the specified charger. Do not charge in a hazardous location. Do not charge a damaged, swollen, wet, excessively hot or frozen battery. Charge in a dry, ventilated area away from combustible materials.
Storage conditions	Store in a cool, dry, well-ventilated place away from direct sunlight, heat, ignition sources, water, conductive materials and incompatible chemicals. Protect terminals from short circuit. Keep in original or approved packaging.
Incompatible materials	Strong oxidising agents, combustible materials, corrosives, water contacting internal components, and electrically conductive materials that may bridge terminals.
Damaged batteries	Quarantine damaged, leaking, swollen, overheated or recalled batteries in accordance with site emergency procedures and obtain specialist advice before handling, storage or transport.

8. Exposure Controls and Personal Protection

Control parameters

Occupational exposure standards are not applicable to the intact sealed battery. If the battery is damaged or involved in a fire, exposure may occur to internal materials and decomposition products; apply the relevant current workplace exposure standards and conduct a task-specific risk assessment.

Exposure controls

Engineering controls	No special controls are required for normal use. Provide general ventilation during charging and local exhaust or emergency ventilation where leakage, venting or fire residues are handled.
Eye/face protection	Not required for normal use. Wear chemical splash goggles and a face shield when handling leaking or ruptured batteries.
Hand protection	Not required for normal use. Wear suitable chemical-resistant gloves when handling damaged batteries or electrolyte.

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Body protection	Wear protective clothing and enclosed footwear when handling damaged batteries. Firefighters require full protective clothing.
Respiratory protection	Not required for normal use. For smoke, vapour or decomposition products, evacuate and use respiratory protection selected under a site risk assessment; emergency responders should use positive-pressure SCBA.
Hygiene measures	Do not eat, drink or smoke while handling damaged batteries or residues. Wash thoroughly after handling.

9. Physical and Chemical Properties

Appearance	Sealed rechargeable battery pack; black moulded enclosure.
Odour	Odourless when intact.
Nominal voltage	10.8 V
Rated capacity	6.2 Ah
Energy	66.96 Wh
pH	Not applicable to the intact article.
Melting/freezing point	Not applicable; individual internal materials have different properties.
Flash point	Not applicable to the intact article; internal organic electrolyte is flammable.
Solubility	Battery is insoluble in water; some internal components may react with or dissolve in water.
Flammability	Not classified as flammable when intact. May ignite or undergo thermal runaway if damaged, abused, short-circuited, overcharged or exposed to fire.
Weight	596gms

10. Stability and Reactivity

Reactivity	No hazardous reaction under recommended conditions of use and storage.
Chemical stability	Stable when intact and used, charged and stored as directed.
Possibility of hazardous reactions	Thermal runaway, venting, fire or explosion may occur from internal or external short circuit, overcharge, overheating, crushing, puncture, fire exposure or incompatible charging.
Conditions to avoid	Heat, flame, sparks, direct sunlight, water ingress, mechanical damage, disassembly, reverse polarity, short circuit, overcharge and charging in a hazardous location.
Incompatible materials	Strong oxidising agents, combustible materials, corrosives and conductive materials contacting terminals.
Hazardous decomposition products	Carbon oxides, metal oxides, phosphorus compounds, hydrogen fluoride and other irritating, corrosive or toxic fumes.

11. Toxicological Information

The battery is a sealed article. Toxicological exposure is not expected during normal use. The following information relates to internal contents released by damage, leakage, venting or fire.

Acute toxicity	Internal electrolyte and decomposition products may be harmful if swallowed or inhaled.
Skin corrosion/irritation	Electrolyte may cause irritation or chemical burns.
Serious eye damage/irritation	Electrolyte may cause serious irritation or burns.
Respiratory effects	Vapours and fire decomposition products may irritate or damage the respiratory tract and may cause dizziness or suffocation.
Sensitisation	No battery-specific data available.
Carcinogenicity / mutagenicity / reproductive toxicity	No battery-specific data available for the sealed article.
STOT / aspiration hazard	No battery-specific data available. Aspiration is not a relevant route for the intact article.
Likely routes of exposure	No exposure during normal use. Following damage: eye contact, skin contact, inhalation and ingestion.

12. Ecological Information

Ecotoxicity	No exposure is expected from the intact battery. Released internal materials may be harmful to aquatic organisms and the environment.
Persistence and degradability	No battery-specific data available.
Bioaccumulative potential	No battery-specific data available.
Mobility in soil	Electrolyte may migrate in soil and water if released.
Other adverse effects	Improper disposal may cause fire and environmental contamination. Do not release to the environment.

13. Disposal Considerations

Disposal method	Do not dispose of in household, commercial or general workplace waste. Do not incinerate, crush or dismantle. Protect terminals against short circuit and send to an authorised battery collection, recycling or hazardous-waste facility.
Damaged or defective batteries	Handle and package under specialist advice. Damaged, defective or recalled lithium batteries may be subject to additional transport restrictions and must not be offered for transport as ordinary batteries.
Recycling	Use an approved battery stewardship or recycling service where available. Follow applicable state or territory waste requirements.

Contaminated materials	Dispose of absorbents, PPE and residues as hazardous waste in accordance with local requirements.
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14. Transport Information

Lithium-ion batteries are dangerous goods for transport. The correct entry depends on whether the battery is shipped alone, packed with equipment, or contained in equipment. The supplier technical information states that the battery has passed UN Manual of Tests and Criteria, Part III, subsection 38.3. Retain the applicable UN 38.3 test summary.

Battery shipped alone	UN 3480 - LITHIUM ION BATTERIES; Class 9; packing group not assigned.
Battery packed with equipment	UN 3481 - LITHIUM ION BATTERIES PACKED WITH EQUIPMENT; Class 9; packing group not assigned.
Battery contained in equipment	UN 3481 - LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT; Class 9; packing group not assigned.
Marine pollutant	Not assigned as a marine pollutant for the article.
ADG road and rail	Transport in accordance with the current Australian Dangerous Goods Code. Batteries meeting the applicable conditions may qualify for Special Provision 188; otherwise full Class 9 requirements apply.
Air transport	Comply with the current IATA Dangerous Goods Regulations and carrier requirements. The 66.96 Wh battery is below 100 Wh, but configuration-specific packing instructions, quantity limits, markings, documentation and state-of-charge controls apply. Standalone UN 3480 batteries must be offered at no more than 30% state of charge. From 1 January 2026, additional state-of-charge restrictions apply to batteries packed with equipment.
Sea transport	Comply with the current IMDG Code, including applicable special provisions, packaging, marking, labelling and documentation.
Transport precautions	Protect against short circuit and movement. Do not transport damaged or defective batteries without specialist dangerous-goods advice. Confirm current modal and carrier requirements before shipment.

15. Regulatory Information

Australia / New Zealand	Prepared in 16-section SDS format with reference to the Australian Model Code of Practice and GHS 7, and New Zealand HSNO Act and EPA requirements, as applicable. The intact battery is outside GHS classification under normal use.
Dangerous goods	Lithium-ion batteries are regulated as Class 9 dangerous goods under transport rules unless all applicable exemption or special-provision conditions are met.
Electrical / explosive atmosphere use	The battery is intended for the PIP G5 EX system. Its use, charging, maintenance and replacement must follow the product certification, instructions and site hazardous-area controls. Do not charge in a hazardous location.
AICIS / AIIC	The finished battery is an article. Regulatory obligations for any industrial chemicals intentionally released from an article should be assessed separately where applicable.
Poisons Standard	No schedule assigned to the intact battery article based on available information.
Review	Review this SDS at least every five years and earlier if product composition, certification, transport rules or supplier information changes.

16. Other Information

Prepared for	PIP ANZ
ANZ issue date	2026-09-04
Version	ANZ V1.04
Supersedes	AU V1.03 (Australian issue).
Recommended review date	2031-09-04 or earlier if product, regulatory, certification or transport information changes.
Source information	Prepared from the supplier technical SDS for the 10.8 V, 6.2 Ah, 66.96 Wh lithium-ion battery dated 2024-11-13, together with current Australian SDS and dangerous-goods guidance. Original manufacturer and testing-party records are retained internally by PIP ANZ.
Abbreviations	ADG: Australian Dangerous Goods Code; GHS: Globally Harmonized System; IATA: International Air Transport Association; IMDG: International Maritime Dangerous Goods Code; PAPR: powered air-purifying respirator; SCBA: self-contained breathing apparatus; SDS: safety data sheet; SoC: state of charge; UN: United Nations.

Notice to reader
This Safety Data Sheet describes the product in relation to health, safety, environmental and transport requirements. It is not a product specification or warranty. Information is based on data available at the date of issue. Users and consignors must assess the specific circumstances of use and transport, follow the PIP G5 EX instructions, and confirm current legal, carrier and site requirements before handling or shipment.