

1. Identification

Product identifier	JSP PowerCap Infinity Lithium-Ion Battery.
Product code	CEU170-000-000.
Associated equipment	JSP PowerCap Infinity Powered Air Purifying Respirator.
Product type	Rechargeable lithium-ion battery pack; sealed manufactured article.
Battery specifications	Nominal voltage 3.6 V; rated capacity 5.2 Ah; energy rating 18.72 Wh; mass 180 g.
Recommended use	Power supply for the JSP PowerCap Infinity powered air respirator. Use only with approved PowerCap Infinity equipment and charging accessories.
Restrictions on use	Do not disassemble, crush, puncture, short-circuit, modify, immerse, incinerate or expose to excessive heat. Do not charge a damaged battery or use an unapproved charger.
Supplier, importer and manufacturer details	
Company name	PIP ANZ
Australian supplier	Level 5, 163/175 O'Riordan Street, Mascot NSW 1460, Australia
Australian contacts	Customer Service: 1300 770 723 Technical Support: 1300 275 820
New Zealand contacts	Customer Service: 0800 888 778 Technical Support: 0800 888 778
Manufacturer	JSP Limited, Worsham Mill, Minster Lovell, Witney, Oxfordshire OX29 0TA, United Kingdom +44 1993 826051 technical.support@jsp.co.uk
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	
WHS / GHS classification	The intact sealed battery is a manufactured article and is not classified as a hazardous chemical when used as intended. Internal electrolyte and electrode materials may be hazardous if the battery is damaged, opened, overheated, burned, leaking or venting.
Dangerous goods	Lithium-ion batteries are Class 9 dangerous goods for transport. See Section 14.

Label elements and emergency warning signs

Hazard symbols for damaged/leaking contents	GHS02 Flame	GHS07 Exclamation mark	GHS08 Health hazard
No pictogram is required for the intact sealed article under normal use. The displayed icons relate only to released internal contents from a damaged, leaking, ruptured, venting or burning unit.			
Signal word	Danger - applicable only to released internal contents or abnormal thermal events.		
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 unit 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. Use only the approved PowerCap Infinity charger. 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 unit becomes hot, emits odour, changes colour, leaks, vents, swells or produces smoke, stop use, isolate it from combustible materials if safe to do so and contact emergency services where fire or immediate danger exists.		

WARNING SIGNS OF A FAILING, VENTING OR DAMAGED BATTERY	
Excessive heat	Unit becomes unusually hot during use, charging or storage, or continues heating after it is disconnected.
Swelling or distortion	Casing bulges, expands, warps, splits or no longer fits correctly in the respirator or charger.
Odour or vapour	Unusual sweet, solvent-like, metallic or acrid smell; visible vapour, mist or fumes.
Hissing, popping or crackling	Any abnormal sound may indicate internal venting, short circuit or developing thermal runaway.
Leakage or residue	Liquid, oily film, crystalline deposit, corrosion or staining around the casing, seams, terminals or contacts.
Discolouration or physical damage	Scorching, melting, cracks, punctures, crushed areas, exposed cells or damaged terminals.
Smoke, flame or rapid heating	Treat as an emergency. Evacuate the immediate area, keep clear and call 000 (AU) or 111 (NZ). Do not handle or attempt to recharge the unit.
ACTION: Stop using and charging immediately. Disconnect only if this can be done safely. Move people away, isolate the area from combustible materials, and follow the site damaged-battery or emergency procedure. Do not touch a leaking, smoking, hissing or excessively hot unit.	

Principal hazards	
Fire / explosion	Risk of thermal runaway, fire, rupture or explosion if short-circuited, overcharged, crushed, punctured, overheated, exposed to fire or otherwise abused.
Leaking unit	Electrolyte may cause skin and serious eye irritation or chemical burns. Vapours and decomposition products may irritate the respiratory tract and may cause dizziness or suffocation.
Damaged unit	Do not touch, charge, use or transport a swollen, cracked, leaking, hot, smoking or otherwise damaged unit except under an approved damaged-battery procedure.

Charging	Charge only with the approved PowerCap Infinity charger and in accordance with product instructions. Charge in a dry, ventilated area away from combustible materials. Do not charge unattended where site controls require supervision.
Storage conditions	Store in a cool, dry, well-ventilated place away from direct sunlight, heat, flame, water and incompatible materials. Protect from physical damage and short circuit. Follow product instructions for long-term storage state of charge.
Incompatible materials	Strong oxidising agents, combustible materials and corrosives.
Workplace controls	Maintain suitable fire-response arrangements. Segregate damaged or recalled units from serviceable stock and apply a documented quarantine process.

8. Exposure Controls and Personal Protection

Control parameters	
Intact unit	No occupational exposure is expected from the sealed unit during normal use.
Internal materials	No mixture-specific Australian workplace exposure standard has been assigned. If internal materials are released, minimise exposure and apply any relevant standards for identified constituents or decomposition products.
Exposure controls and personal protective equipment	
Engineering controls	General ventilation is adequate for normal use. Provide local exhaust ventilation and emergency eyewash facilities where damaged units may be assessed or handled.
Eye/face protection	Not normally required for an intact unit. For leakage or damaged-unit handling, wear chemical splash goggles and a face shield where splashing is possible.
Hand protection	Wear suitable work gloves for routine handling where mechanical damage is possible. Use chemical-resistant gloves for leaked electrolyte or damaged components.
Respiratory protection	Not normally required for an intact unit. For smoke, vent gas or fire decomposition products, evacuate. Emergency responders require positive-pressure SCBA. Do not rely on a generic ABEK filter recommendation without a task-specific assessment.
Hygiene	Wash hands after handling damaged units. Do not eat, drink or smoke in response or quarantine areas.

9. Physical and Chemical Properties

Physical state	Sealed rechargeable lithium-ion cell/battery pack (manufactured article).
Appearance	Black battery enclosure with electrical terminals and internal cells/electronic protection components.
Odour	Odourless when intact.
Nominal voltage	3.6 V.
Rated capacity	5.2 Ah.
Energy rating	18.72 Wh, calculated as 3.6 V x 5.2 Ah.
Mass	180 g.
pH	Not applicable to the intact article.
Solubility	Not applicable to the intact article; some internal components may be soluble or dispersible in water.
Melting/freezing point	Not applicable to the assembled article.
Flash point	Not applicable to the intact sealed article. Internal organic electrolyte is flammable.
Flammability	The intact unit is not intended to burn, but may ignite, vent or explode under abnormal conditions.
Other properties	Boiling point, vapour pressure, vapour density, relative density, viscosity, partition coefficient and explosive limits are not applicable or not available for the sealed article.

10. Stability and Reactivity

Reactivity	No hazardous reaction is expected during normal use. Internal materials can react if released.
Chemical stability	Stable under recommended operating, charging, storage and transport conditions.
Possibility of hazardous reactions	Thermal runaway, fire, venting, rupture or explosion may occur from internal or external short circuit, overcharge, crushing, puncture, overheating, fire exposure or incompatible charging.
Conditions to avoid	Heat, flame, sparks, direct sunlight, temperatures outside specified limits, water ingress, mechanical or electrical abuse, overcharging, reverse polarity and short circuit.
Incompatible materials	Strong oxidising agents, combustible materials and corrosives.
Hazardous decomposition products	Carbon oxides, metal oxides, hydrogen fluoride and other irritating, corrosive or toxic gases and vapours.

11. Toxicological Information

Likely routes of exposure	No exposure from an intact unit. If damaged: eye or skin contact with electrolyte; inhalation of vapour, smoke or decomposition products; accidental ingestion of released material.
Acute toxicity	No product-specific acute toxicity data are available. Harmful effects may occur from released electrolyte, electrode materials or fire decomposition products.
Skin corrosion/irritation	Released electrolyte may cause irritation or chemical burns.
Serious eye damage/irritation	Released electrolyte may cause serious irritation or chemical burns.
Respiratory effects	Vapours, smoke and decomposition products may irritate the respiratory tract and may cause headache, dizziness, breathing difficulty or suffocation.
Sensitisation	The source composition includes nickel; released nickel-containing material may present a sensitisation hazard. No product-specific data are available for the sealed article.
Mutagenicity / carcinogenicity / reproductive toxicity	The source composition includes nickel and 1,3-propane sultone; hazardous effects may apply if internal materials are released. No product-specific data are available for the sealed article.
STOT - single/repeated exposure	No product-specific data are available. Significant exposure is not expected from an intact unit.
Aspiration hazard	Not applicable to the intact article.
Symptoms	Redness, pain, tearing, coughing, headache, dizziness, nausea, breathing difficulty and chemical or thermal burns following abnormal exposure.

12. Ecological Information

Ecotoxicity	No product-specific ecological data are available. Released electrolyte and internal metals may be harmful to the environment.
Persistence and degradability	Not determined for the assembled article.
Bioaccumulative potential	Not determined.
Mobility in soil	Released electrolyte may migrate through soil and contaminate water.
Other adverse effects	Do not dispose of the unit to landfill, general waste, fire or waterways. Prevent release of damaged contents.

13. Disposal Considerations

Disposal method	Do not place lithium-ion cells or batteries in general waste or household recycling bins. Reuse or recycle through an approved battery stewardship, dangerous-goods or e-waste service.
Preparation for disposal	Discharge only if instructed by an approved service. Protect terminals against short circuit using non-conductive tape or individual packaging. Keep units dry and protected from damage.
Damaged units	Damaged, defective, swollen, leaking or recalled units require specialist assessment, packaging and transport. Do not mail or transport them under routine provisions.
ANZ guidance	Follow applicable Australian state/territory or New Zealand waste requirements and the receiving facility's instructions. Use approved battery recycling or stewardship collection points where eligible.
Packaging	Do not incinerate, crush or dismantle. Do not reuse damaged packaging contaminated with electrolyte.

14. Transport Information

Transport classification and conditions	
UN number - battery/cell alone	UN 3480.
Proper shipping name	LITHIUM ION BATTERIES.
UN number - with equipment	UN 3481.
Proper shipping names	LITHIUM ION BATTERIES PACKED WITH EQUIPMENT; or LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT, according to the actual configuration.
Transport hazard class	9 - Miscellaneous dangerous goods.
Packing group	Not assigned. References to Packing Group II in the source SDS are not applicable to lithium-ion cells/batteries.
Environmental hazards	Not identified as a marine pollutant in the source SDS.
Watt-hour rating	18.72 Wh, calculated from 3.6 V x 5.2 Ah. This is below the 100 Wh threshold used by applicable lithium-battery special provisions, subject to all conditions being met.
UN 38.3	Lithium-ion cells and batteries must meet the UN Manual of Tests and Criteria, Part III, subsection 38.3. Retain and make available the applicable manufacturer test summary for CEU170-000-000.
ADG - road and rail	UN 3480 or UN 3481, Class 9. Special Provision 188 may provide relief from some requirements only where all conditions are met, including design testing, terminal protection, packaging, marking and package limits.
IMDG - sea	UN 3480 or UN 3481, Class 9. IMDG Special Provision 188 may apply only where all conditions are met. Protect against short circuit, movement and damage.
IATA - air: alone	UN 3480, Packing Instruction 965. Standalone lithium-ion cells/batteries are cargo aircraft only and must be offered at not more than 30% state of charge unless specifically approved. Applicable Section IA/IB treatment must be confirmed.
IATA - packed with equipment	UN 3481, Packing Instruction 966. From 2026, cells/batteries packed with equipment are generally limited to not more than 30% state of charge unless specifically approved. Apply current configuration and quantity limits.
IATA - contained in equipment	UN 3481, Packing Instruction 967. Apply the current conditions for cells/batteries installed in the PowerCap Infinity equipment.
Special precautions	Classification and documentation depend on shipment configuration, quantity, package, state of charge, condition and mode. Confirm against current ADG, IMDG and IATA requirements before shipping. Damaged or defective lithium batteries are subject to additional restrictions and are forbidden for air transport unless specifically approved.

15. Regulatory Information

Australia WHS	Prepared in the 16-section format with reference to Australian WHS requirements and the Safe Work Australia Code of Practice for preparing safety data sheets. The intact sealed unit is treated as a manufactured article under normal use.
New Zealand	Prepared with reference to the New Zealand EPA Hazardous Substances (Safety Data Sheets) Notice 2017 and GHS 7.
GHS	No GHS label elements are assigned to the intact article. Hazards from released internal materials are described for emergency planning and damaged-unit response.
Dangerous goods	Lithium-ion cells and batteries are regulated for transport as Class 9 dangerous goods under UN 3480 or UN 3481.
AICIS / NZ obligations	PIP ANZ should retain supplier confirmation that relevant industrial chemicals in the imported finished article meet applicable Australian and New Zealand obligations.
Electrical / product requirements	Use only with approved PowerCap Infinity equipment and chargers and comply with applicable product instructions, workplace risk controls and transport requirements.

16. Other Information

Prepared for	PIP ANZ.
ANZ issue date	2026-09-04.
Version	ANZ V1.00.
Supersedes	New ANZ-format issue based on JSP PowerCap Infinity Lithium Ion Battery SDS, product code CEU170-000-000, V3 dated 2026-05-05.
Recommended review date	2031-09-04, or earlier if the battery design, formulation, supplier/importer details, transport rules or regulatory requirements change.
Primary technical source	JSP PowerCap Infinity Lithium Ion Battery SDS, product code CEU170-000-000, V3, issue date 2026-05-05.
ANZ references	Safe Work Australia SDS and GHS 7 guidance; New Zealand EPA Hazardous Substances (Safety Data Sheets) Notice 2017; current ADG Code, IMDG Code and IATA Dangerous Goods Regulations/lithium-battery guidance.
Revision summary	First ANZ-format issue; added Australian and New Zealand supplier and emergency contacts; separated intact-article hazards from released-content hazards; normalised source chemistry identifiers; updated fire, respiratory-protection and transport wording.

SAFETY DATA SHEET
POWERCAP INFINITY BATTERY
PRODUCT CODE:
CEU170-000-000

Abbreviations

ADG - Australian Dangerous Goods Code; AICIS - Australian Industrial Chemicals Introduction Scheme; AIIC - Australian Inventory of Industrial Chemicals; CAS - Chemical Abstracts Service; GHS - Globally Harmonized System; IATA - International Air Transport Association; IMDG - International Maritime Dangerous Goods Code; PAPR - Powered Air Purifying Respirator; PPE - Personal Protective Equipment; SCBA - Self-Contained Breathing Apparatus; SDS - Safety Data Sheet; SoC - State of Charge; STOT - Specific Target Organ Toxicity; UN - United Nations; WHS - Work Health and Safety.

Notice to reader

This SDS is based on information available to PIP ANZ at the issue date and is intended for workplace safety and transport planning. It is not a substitute for the product instructions, a site risk assessment, or current dangerous-goods requirements. Users must determine suitability for their circumstances and comply with applicable Australian and New Zealand law.