

The products described by this Data Sheet are exempt articles and are not subject to requirements for Safety Data Sheets. This Data Sheet is provided for information only.

1 Product and Company Identification

Products:	T03-00011-Axxx	TP81/93/94 Battery Standard Li-Ion 1880mAh
	T03-00011-Bxxx	TP81/93/94 Battery Hi-Capacity Li-Ion 2300mAh
	T03-00011-Cxxx	TP81/93/94 Battery Performance Li-Ion 2400mAh
	T03-20011-Axxx	TP8100 Battery IS FM Li-Ion 1880mAh
	T03-22001-Axxx	TP93/94 Battery ExIS Li-Ion 2300mAh
	T03-00011-Exxx	TP8/9 Battery High Capacity Li-Ion 3300mAh

Manufacturer: Tait International Limited
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Postal Address: PO Box 1645, Christchurch, New Zealand
Telephone: +64 3 358 3399
Web: <http://www.taitradio.com/>

Emergency Contact Numbers:	In New Zealand	
	0800 CHEMCALL (0800 243 622)	24 hours
	In Australia	
	1800 127 406	24 hours
	In other countries	
	+64 4 917 9888	24 hours

2 Hazards Identification

The battery cell chemicals are contained in a sealed enclosure. The battery cells are contained in a sealed plastic case. Risk of exposure only occurs if the battery is physically or electrically abused. The most likely risk is an acute exposure when the gas release vent operates. Organic solvent has slight toxicity and can irritate skin and eyes. Lithium salt is irritating to skin, eyes and mucous membranes and should be avoided.

Batteries may leak, explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. The battery may give off toxic and irritating gases/fumes during burning or thermal decomposition.

3 Composition / Information on Ingredients

Battery Case

Chemical	Description	CAS No.
Bisphenol A Polycarbonate	Black, odourless solid	108-95-2 108-90-7
Polypropylene (PP)	Cell Enclosure	9003-07-0

Lithium ion Cell

Chemical	Description	CAS No.	Concentration Range (wt %)
Lithium Cobaltate (LiCoO ₂)	Positive electrode	12190-79-3	20 - 60
Aluminium	Positive electrode's base	7429-90-5	1 - 10
Carbon/Graphite	Negative electrode	7782-42-5 7440-44-0	10 - 30
Copper	Negative electrode's base	7440-50-8	1 - 15
Electrolyte	Ethyl methyl carbonate Diethyl carbonate Ethylene carbonate Lithium Hexafluorophosphate	623-53-00 105-58-8 96-49-1 21324-40-3	5 - 25
Outer case	Aluminium, iron, aluminium laminated plastic	7429-90-5 7439-89-6	1 - 30

Note: Not all chemicals are used in all cells

Note: Battery does not contain Mercury

4 First Aid Measures

Skin Contact:

In case of skin contact with contents of battery cell (leaking fluid), wash immediately with soap and water. If irritation persists, seek medical advice.

Eye Contact:

Remove any contact lenses. Flush with copious amounts of water for 20 minutes. If irritation persists, seek medical advice.

Inhalation:

Remove to fresh air. If irritation persists, seek medical advice.

Ingestion:

Seek medical advice.

5 Fire Fighting Measures

Extinguishing Media:

Water, foam, dry chemical, carbon dioxide (CO₂)

Flammable Limits:

Not available

Procedures:

In case of fire in an adjacent area, use water, CO₂, foam or dry chemical extinguishers. If batteries are packed in their original packaging the fuel of the fire is basically paper and plastic. Fire Fighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes.

6 Accidental Release Measures

Control any fire or immediate hazard. Then the preferred response is to leave the area and allow the batteries to cool and any fumes to dissipate. Avoid skin and eye contact or inhalation of fumes. Remove spilled liquid with absorbent and incinerate. Place product into an appropriate marked container for disposal.

7 Handling and Storage

Handle carefully, avoid physical or electrical abuse. Batteries may leak, explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short circuit.

To preserve usable capacity, store partially charged in a cool, dry place. For short term storage (less than 30 days), keep at less than 50°C. For long term storage (more than 90 days), keep at less than 30°C.

8 Exposure Controls / Personal Protection

Risk of exposure only occurs if battery is physically or electrically abused.

- Respiratory protection:** Respirator with air cylinder, dust mask
- Hand protection:** Protective gloves
- Eye protection:** Goggles or protective glasses to protect against splashes
- Skin and body protection:** Working clothes with long sleeve and long trousers

9 Physical and Chemical Properties

These battery packs are solid articles containing prismatic cells. Other properties such as odour, pH, vapour pressure, solubility are not applicable.

10 Stability and Reactivity

- Stability:** Stable unless strong shock or heat is applied
- Conditions to Avoid:** Do not disassemble, crush, expose to fire or high temperatures.
- Incompatible Materials:** Conductive material such as water or metal pieces. Oxidizing agent such as bleach.
- Decomposition Products:** (By Fire) Phenol, Bisphenol A, Carbon Dioxide, aldehydes, Carbon monoxide.
- Hazardous Reactions:** Irritating or harmful gases are released if a leakage or fire occurs.

11 Toxicological Information

Risk of exposure only occurs if battery is physically or electrically abused.

Organic Electrolyte

- Acute Toxicity:** LD50, oral - Rat 2,000mg/kg
- Irritating nature:** Irritative to skin and eyes.

12 Ecological Information

- Persistence/degradability:** The battery pack and it's internal materials will remain in the environment; do not bury or dispose of batteries arbitrarily.

13 Recycling and Disposal Considerations

Tait International Limited encourages battery recycling. Please be environmentally responsible and dispose through the original supplier, your local municipal waste "separate collection" service, or contact Tait International Limited. Discharge the Li-ion battery before recycling or disposing of it.

DO NOT dispose of in fire (incinerate) or subject the battery to temperatures above 70°C.

14 Transport Information

UN Number(s)	Proper Shipping Name(s)	Transport Hazard Class	Packing Group
3480	Lithium ion batteries	9	II
3481	Lithium ion batteries packed <i>with</i> equipment	9	II

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Note: The appropriate UN designation depends on the individual shipment configuration (with other equipment or not).

When packed and shipped by Tait International Limited, these batteries meet applicable packaging and labelling requirements for transport as follows:

- International Air Transport Association (IATA) 62nd Ed, International Civil Aviation Organisation (ICAO) 2020 – 2021 Ed.
IATA DGR Section II of Packing Instructions 965, 966 applies.
- International Maritime Dangerous Goods (IMDG 2020, Special Provision 188 Amendment 40-20)
- US Department of Transportation (DOT) 49 CFR 173.185 and Special Provision 188.
- European Agreement concerning the International Carriage of Dangerous Goods by Road/Rail (ADR/RID 2021) including Special Provisions 188 and 230.

Each model of Li-ion battery has been tested to the United Nations Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria, Part III, subsection 38.3. Test reports and summaries are available on request.

15 Regulatory Information

▪ Article 33 REACH Compliance Statement

Tait International Limited manufactures products in New Zealand which are available for sale within the European Union and abroad.

TAIT products are manufactured from purchased components meaning that Tait does not use raw materials in their manufacture. As part of our procurement processes, Tait requires all component suppliers to complete a REACH compliance statement to Tait International Limited before their components are accepted into our supply chain.

Tait International Limited declares that to the best of its knowledge the products described above do not contain a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1 % weight by weight (w/w).

16 Other Information

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References:	United Nations Recommendations on the Transport of Dangerous Goods Model Regulations, 21st Revised Edition
	UN Manual of Tests and Criteria, various editions
	IATA Lithium Battery Shipping Guidelines, 8th Edition, 2021
	T03-00011-AAAA-QZMAE Test Report – UN Manual of Tests and Criteria, §38.3
	T03-00011-BAAA-QZMAE Test Report – UN Manual of Tests and Criteria, §38.3
	T03-00011-CAAA-QZMAE Test Report – UN Manual of Tests and Criteria, §38.3
	T03-20011-AAAA-DUMAE Proof of Product Safety
	T03-22001-AAAA-QZMAE Test Report – UN Manual of Tests and Criteria, §38.3
	T03-20011-DAAA-QZMAE Test Report – UN Manual of Tests and Criteria, §38.3
	T03-00011-EAAA-QZMAE Test Report – UN Manual of Tests and Criteria, §38.3
	T03-00011-AAAA-BCAAA Lithium Ion Battery Test Summary
	T03-00011-DAAA-BCAAA Lithium Ion Battery Test Summary
	T03-00011-EAAA-BCAAA Lithium Ion Battery Test Summary
	T03-22011-AAAA-BCAAA Lithium Ion Battery Test Summary
	T03-00011-0001-BCAA Declaration of Equivalence



Product Data Sheet

Tait Lithium ion (Li-ion) Rechargeable Batteries

Notice: The information and recommendations set forth in this Data Sheet are made in good faith and are believed to be accurate at the date of preparation. Tait International Limited makes no warranty, expressed or implied, with respect to this information and recommendations and disclaims all liability from reliance on it.

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