

# SAFETY DATA SHEET (MSDS)

Version 1.5  
05/05/2022

Keep this document, it can also be found at:

<https://www.oeelsafe.com.au/qikpac/>

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Description	Rechargeable Portable Lithium-ion Battery Pack
Model Number	QIKPAC 242
Nominal Voltage	25.2V
Rated Capacity	9540mAh (7S3P)
Rated Energy	240.4Wh
Trading Logo	
Supplier / Manufacturer	ELSAFE AUSTRALIA PTY LTD trading as OE Elsafe
Contact Details and Address	2 /11-17 Wilmette Pl, Mona Vale, NSW 2103 AUSTRALIA Phone: +61-2-9454-7500 Emergency 24hrs Phone: +61 02 9454 7544 Email: sales@oeelsafe.com.au Web: www.oeelsafe.com.au
Product Image	

## 2. HAZARD IDENTIFICATION

### 2.1 Classification of the substance or mixture

EXEMPT FROM CLASSIFICATION ACCORDING TO AUSTRALIAN WHS REGULATIONS

### 2.2. Label Elements

No Signal word, pictograms, hazard or precautionary statements have been allocated.

### 2.3 Other Hazards

For the battery cells, chemical materials are stored in hermetically sealed metal cases, designed to withstand temperatures and pressures encountered during normal use. As a result, during normal use there is no physical danger of ignition or explosion and danger of hazardous chemical materials leakage. However, if the battery is exposed to fire or excessive heat, excessive mechanical shocks, added electric stress by misuse or is bent cracked or broken the battery may discharge hazardous material and fumes.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

<b>Hazardous Ingredients (Chemical Name)</b>	<b>Concentration or concentration ranges (%)</b>	<b>CAS Number</b>
<i>Lithium oxido (oxo) nickel</i>	16	12031-65-1
<i>Lithium cobaltite</i>	6.4	12190-79-3
<i>Lithium manganate</i>	9.6	12057-17-9
<i>Graphite</i>	17	7782-42-5
<i>Lithium hexafluorophosphate</i>	2	21324-40-3
<i>Ethylene carbonate</i>	4	96-49-1
<i>Ethyl methyl carbonate</i>	7	623-53-0
<i>Propylene carbonate</i>	1	108-32-7
<i>Nickel</i>	2	7440-02-0
<i>Aluminum</i>	12	7429-90-5
<i>Copper</i>	8	7440-50-8
<i>Carbon</i>	2	7440-44-0
<i>1.1-Difluoro ethylene polymer</i>	4	24937-79-9
<i>Polyethylene</i>	3	9002-88-4
<i>Poly(ethylene terephthalate)</i>	6	25038-59-9

## 4. FIRST-AID MEASURES

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### Eyes

Exposure is considered unlikely unless cell casing is damaged. If your eyes come into contact with a damaged battery or gas, flush with plenty of water for at least 15 minutes until the stinging and irritation subside and seek immediate medical attention.

### Skin

Exposure is considered unlikely unless cell casing is damaged. If your skin comes into contact with a damaged battery, immediately take off contaminated clothing and wash your skin with water or shower. Seek immediate medical attention if burning sensation continues.

### Inhalation

Exposure is considered unlikely unless cell casing is damaged. Move to fresh air immediately and rest. If you experience shortness of breath, dizziness or headache, seek immediate medical attention.

### Ingestion

Exposure is considered unlikely unless cell casing is damaged. If battery or any battery parts are ingested do not induce vomiting or give food or drink. Seek medical attention immediately.

**Poison Information Centre: 13 11 26 Australia wide.**

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## 5. FIRE-FIGHTING MEASURES

**In case of fire:** Suitable extinguishers include Carbon Dioxide, Dry Chemical, Foam and Water based extinguishers.

**Specific Hazards:** Corrosive Gas may be emitted during fire.

Batteries can short circuit and catch fire and or emit smoke if crushed or forcibly bent.

In the event of fire, evacuate the area. Wear a gas mask and cool the adjacent batteries with water or fire extinguishers to stop the spread of fire. Separate burning / smoking battery from other batteries if possible and allow the fire to run its course and / or extinguish with water. Due to chemicals in the battery, it is still dangerous and should be isolated and treated with extreme caution and disposed of safely. In the event of a large fire, evacuate to a safe place immediately and call the fire brigade and report a battery fire.

## 6. LEAKING OR SPILLS FROM A BATTERY

Protect skin and eyes with PPE and safely clean up battery leaks or spills. Spills may be absorbed on non-reactive absorbents such as Vermiculite. Place cells into individual plastic bags and then place into appropriate containers and close tightly for disposal. Ensure that clean-up procedures do not expose spilled material to any moisture. Immediately transport closed containers and arrange safe transportation to a battery recycling company. **Do not throw away damaged or end of life batteries.**

Contact a suitable recycler: <https://batteryrecycling.org.au/recycle-batteries/why/find-a-recycler/>

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## 7. HANDLING AND STORAGE

### Handling

Do not disassemble / reassemble batteries as short circuiting can occur. Keep the battery away from fire. Avoid excessive vibration or crushing when handling and transporting batteries.

### Storage

The battery should be stored in Ship Mode (OFF) at between 40 and 60% (2 LEDS showing) charge level before long term storage. Ideally it should be stored between 10°C and 20°C. It should receive a top up charge periodically (yearly) to maintain this charge level.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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### Engineering control

Suitable fire extinguishers must be available in areas where batteries are used or stored.

Provide a gas mask, metal storage container and access to water for use in the event of battery damage.

### Respiratory protection

Under normal use and storage conditions there is no risk or need for protection. If batteries are severely damaged and catch fire, then respiratory PPE / gas mask should be worn.

### Eye protection

Under normal use and storage conditions there is no risk or need for eye protection.

### The body and skin protection

Under normal use and storage conditions there is no risk or need for skin protection. If batteries are damaged, then gloves should be worn.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>Appearance</b>	Cylindrical Battery Cells in Plastic Housing
<b>Odour threshold</b>	Not applicable.
<b>pH</b>	Not applicable.
<b>Melting point</b>	Not applicable.
<b>Boiling point</b>	Not applicable.
<b>Flash point</b>	Not applicable.
<b>Evaporation rate</b>	Not applicable.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Lower and upper explosive (flammable) limits</b>	Not applicable.
<b>Vapor pressure</b>	Not applicable.
<b>Vapor density</b>	Not applicable.
<b>Relative density</b>	Not applicable.
<b>Solubility in water</b>	Insoluble. May React.
<b>Partition coefficient: n-octanol/water</b>	Not applicable.
<b>Auto-ignition temperature</b>	Not applicable.
<b>Decomposition temperature</b>	Not applicable.
<b>Viscosity</b>	Not applicable.

## 10. STABILITY AND REACTIVITY

### Stability

Stable under normal use and storage conditions.

### Conditions / Environments to be avoided

High temperature above 70°C or incineration. Wet environment, mechanical shock, vibration, crush, reverse polarity should be avoided.

### Incompatible materials

Battery contents are incompatible with water, oxidizing agents (e.g. hypochlorites), acids, alkalis, heat and ignition sources.

### Hazardous decomposition products

When the battery is heated or catches fire, it will release pungent thick smoke, hydrogen and lithium oxides.

## 11. TOXICOLOGICAL INFORMATION

Under normal use and storage conditions contact with the battery is non-toxic as the cells are hermetically sealed. If they are damaged content may be hazardous.

## 12. ECOLOGICAL INFORMATION

This product may be hazardous to the environment. It is not biodegradable. There is low mobility in soil. Properly dispose of battery to prevent ecological hazard.

## 13. DISPOSAL CONSIDERATIONS

Dispose of battery through a battery recycling facility / company. Do not discard into waste / rubbish bins. Please refer to and abide by national protocols, laws and regulations. Recycle at one of the available sites listed on:

<https://batteryrecycling.org.au/recycle-batteries/why/find-a-recycler/>


## 14. TRANSPORT INFORMATION

CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE



This battery sample is Rechargeable Portable Lithium-ion Battery Pack, 240.2 Wh, 1.3Kg

This battery and its cells are tested to meet the Requirements tests in the UN Manual of Tests and Criteria, Part III, subsection 38.3. UN 38.3 Report available on request.

	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG/IMO)	AIR TRANSPORT (IATA/ICAO)
UN Number	3480	3480	3480
Proper Shipping Name	LITHIUM-ION BATTERIES	LITHIUM-ION BATTERIES	LITHIUM-ION BATTERIES
Transport Hazard Class	9	9	9
Packing Group	II	II	II
Packing Instructions		Packing Instruction 903 (IMDG)	Packing Instruction 965-IA (IATA),
Remarks	Declaration of Dangerous Goods (DGD) is required.	Declaration of Dangerous Goods (DGD) is required.	<p>Original packaging is strong rigid outer packaging appropriate to its capacity and intended use.</p> <p>The packaging is UN specification.</p> <p>As a lithium-ion battery pack, the unit is subject to 30% State of Charge Restrictions (SOC) of rated capacity.</p> <p>Statement on the Air waybill : "Dangerous Goods as per Attached DGD" and Cargo Aircraft Only</p>  <p>The battery pack must not be packed in the same outer packaging, or placed in an overpack with, dangerous goods classified in Class 1 (except 1.4S), Division 2.1 (flammable gases), Class 3 (flammable liquids), Division 4.1 (flammable solids) and Division 5.1 (oxidizers).</p>

HAZCHEM CODE: 4W

## 15. REGULATORY INFORMATION

### 15.1 Safety, Health and Environmental regulations/legislation specific for the substance or mixture.

**Poison Schedule** *A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)*

**Classifications Safe work** *Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals.*

*The classifications and phrases listed below are based on the approved criteria for Classifying Hazardous Substances [NOHSC: 1008(2004)]*

**Hazard codes** *None allocated*

**Risk Phrases** *None allocated*

**Safety phrases** *None allocated*

**Inventory listings(s)** *AUSTRALIA: AICS (Australian Inventory of Chemical Substances). All components are listed on AICS, or are exempt*