

Li-Ion Battery 3Plus

Safety information for Lithium-Ion batteries

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Version: 2.6

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

Trade name Li-Ion Battery 3Plus

Relevant identified uses of the substance or mixture and uses advised against

Rechargeable Lithium Ion battery

Manufacturer/Supplier

Supplier

Hilti (Aust.) Pty. Ltd.
Level 5, 1G Homebush Bay Drive
P.O. Box 3217
2138 Rhodes NSW - Australia
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Department issuing data specification sheet

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SECTION 2: Hazards identification

For the battery chemical materials are stored in a hermetically sealed metal case, 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 chemical danger of hazardous materials leakage.

It may cause heat generation or electrolyte leakage if battery terminals contact with other metals. Electrolyte is flammable. In case of electrolyte leakage move the battery from fire immediately.

However if exposed to a fire, added mechanical shocks, decomposed, added electric stress by miss-use, the gas release vent will be operated. The battery case will be broken at the extreme, hazardous materials may be released.

Moreover, if heated strongly by a surrounding fire, acrid gas may be emitted.

SECTION 3: Composition/information on ingredients

Lithium Ion rechargeable battery pack:

Name/Type	Energy content (Wh)
3Plus	3,8

This product contains a positive electrode (Lithium cobalt oxide (CAS-No. 12190-79-3)), a negative electrode (graphite (CAS-No. 7782-42-5)) and electrolyte (ethylene carbonate(CAS-No. 96-49-1), diethyl carbonate (CAS-No. 105-58-8) and lithium hexafluorophosphate (CAS-No. 21324-40-3)). The physical form of the product, however, precludes exposure to workers under normal conditions of use.

SECTION 4: First aid measures

Description of first aid measures

First-aid measures general	If the electrolyte is leaking out of the battery pack, the following measures have to be taken.
First-aid measures after inhalation	Assure fresh air breathing. Allow the victim to rest.
First-aid measures after skin contact	Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms/effects Not expected to present a significant hazard under anticipated conditions of normal use.

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Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Water, humidity.

Incompatible materials

Conductive materials, water, seawater, strong oxidizers and strong acids.

Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

Information on toxicological effects

Potential adverse human health effects and symptoms

This product contains an organic electrolyte. If the electrolyte is leaking out of the battery pack, the following effects are known when getting into contact: Irritation: severely irritant to eyes. Irritation: may cause irritation to the respiratory system.

Other information

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

SECTION 12: Ecological information

Additional information

Do not allow battery packs to penetrate the soil.
The battery cell may corrode and electrolyte may leak.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations

Dispose in a safe manner in accordance with local/national regulations. Refer to manufacturer/supplier for information on recovery/recycling.

Ecology - waste materials

Avoid release to the environment.

European List of Waste (LoW) code

16 06 05 - other batteries and accumulators
20 01 34 - batteries and accumulators other than those mentioned in 20 01 33

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	RID
UN number			
3480	3480	3480	3480
UN proper shipping name			
LITHIUM ION BATTERIES	LITHIUM ION BATTERIES	Lithium ion batteries	LITHIUM ION BATTERIES
Transport document description			
UN 3480 LITHIUM ION BATTERIES, 9A, (E)	UN 3480 LITHIUM ION BATTERIES, 9		
Transport hazard class(es)			
9A	9A	9A	9A

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ADR	IMDG	IATA	RID
Packing group			
Not applicable	Not applicable	Not applicable	Not applicable
Environmental hazards			
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available			

Special precautions for user

- Overland transport

Classification code (ADR)	M4
Special provisions (ADR)	188, 230, 636b, 376, 377
Limited quantities (ADR)	0
Packing instructions (ADR)	P903, P908, P909
Transport category (ADR)	2
Tunnel restriction code (ADR)	E

- Transport by sea

Special provisions (IMDG)	188, 230b, 376, 377
Limited quantities (IMDG)	0
Packing instructions (IMDG)	P903, P908, P909
EmS-No. (Fire)	F-A
EmS-No. (Spillage)	S-I
Stowage category (IMDG)	A
MFAG-No	147

- Air transport

PCA packing instructions (IATA)	965
PCA max net quantity (IATA)	5kg
CAO packing instructions (IATA)	965
Special provisions (IATA)	A88, A99, A154, A164, A183

- Rail transport

Special provisions (RID)	188, 230, 636b, 376, 377
Limited quantities (RID)	0
Packing instructions (RID)	P903, P908, P909
Carriage prohibited (RID)	No

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No additional information available

SECTION 15: Regulatory information

No additional information available

SECTION 16: Other information

Indication of changes:

14.3	Danger labels (ADR)	Modified	
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14.3	Danger labels (IMDG)	Modified	
14.3	Hazard labels (IATA)	Modified	
14.3	Danger labels (RID)	Modified	

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product