

Product Safety Information Sheet

A safety data sheet is not required for this product. This Product Safety Information Sheet has been created on a voluntary basis Issue date: 11/11/2024 Revision date: 11/11/2024 Supersedes: 17/04/2024 Version: 5.17

SECTION 1: Identification

1.1 Product identifier

Product name Li-Ion Batteries >100 Wh

Product form Article
Product code BU ET&A

1.2 Other means of identification

Other means of identification Hilti B 18 / 5.2 Li-lon (01), Hilti B 22 / 5.2 Li-lon (01), Hilti B 22 / 8.0 Li-lon (01), Hilti B 36 /

3.0 Li-lon (01), Hilti B 36 / 3.3 Li-lon (01), Hilti B 36 / 3.9 Li-lon (01), Hilti B 36 / 5.2 Li-lon (01), Hilti B 36 / 6.0 Li-lon (01), Hilti B 36 / 9.0 Li-lon (01), Hilti B 22-110 Li-lon (01), Hilti B22-170 Li-lon (01), Hilti B22-195 Li-lon (01), Hilti B22-255 Li-lon (01), Hilti B22-290 Li-lon

(01)

1.3 Recommended use of the chemical and restrictions on use

Recommended use Rechargeable Lithium Ion battery for power tools

Restrictions on use For professional use only

1.4 Details of manufacturer or importer

Supplier Department issuing data specification sheet

Hilti (New Zealand) Ltd. Hilti AG

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 New Zealand
 Liechtenstein

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 T +423 234 2111

800 444 584 toll free - F +64 9526 7780 <u>product.compliance-power.tools@hilti.com</u>

servicenz@hilti.com

1.5. Emergency phone number

Emergency number GBK GmbH Global Regulatory Compliance

+49 (0)6132-84463

Country	Organisation/Company	Address	Emergency number
New Zealand	National Poisons Centre		0800 764 766

SECTION 2: Hazard identification

2.1. Classification of the hazardous chemical

Classification according to the Environmental Protection Authority notices (EPA Hazardous Substances and New Organisms Act 1996)

Not classified

2.2. GHS Label elements, including precautionary statements

GHS NZ labelling

No labelling applicable

14/11/2024 NZ - en 1/8



Product Safety Information Sheet

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2.3. Other hazards which do not result in classification

Other hazards which do not result in classification

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 breaked at the extreme, hazardous materials may be released.

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

SECTION 3: Composition and information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments

Lithium Ion rechercheable battery pack:

Name/Type Energy content (Wh).

Hilti B 18 / 5.2 Li-lon (01) 112,00

Hilti B 22 / 5.2 Li-Ion (01) 112,00

Hilti B 22 / 8.0 Li-Ion (01) 171,08 Hilti B 36 / 3.0 Li-Ion (01) 108,00

Hilti B 36 / 3.3 Li-lon (01) 118,80

Hilti B 36 / 3.9 Li-lon (01) 140,40

Hilti B 36 / 5.2 Li-Ion (01) 187,20

Hilti B 36 / 6.0 Li-Ion (01) 216,00

Hilti B 36 / 9.0 Li-Ion (01) 316,80

Hilti B 22-110 Li-lon (01) 110,16

Hilti B 22-170 Li-Ion (01) 170,65

Hilti B 22-195 Li-Ion (01) 194,4

Hilti B 22-255 Li-lon (01) 255,96

Hilti B 22-290 Li-Ion (01) 291,6.

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.

This mixture does not contain any substances to be mentioned according to the applicable regulations

SECTION 4: First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures general First-aid measures after inhalation

First-aid measures after skin contact

First-aid measures after skin contact

First-aid measures after eye contact

If the electrolyte is leaking out of the battery pack, the following measures have to be taken. Allow affected person to breathe fresh air. Allow the victim to rest.

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. Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persists.

14/11/2024 NZ - en 2/8



Product Safety Information Sheet

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First-aid measures after ingestion Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Symptoms caused by exposure

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

4.3. Medical attention and special treatment

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media Cool batteries and accumulators with water jet. In case of fire in the surroundings: Use

extinguishing agent suitable for surrounding fire.

Unsuitable extinguishing media No additional information available.

5.2. Specific hazards arising from the chemical

General measures No flames, no sparks. Eliminate all sources of ignition. Isolate from fire, if possible, without

unnecessary risk.

Hazardous decomposition products in case of fire Formation of toxic gases is possible during heating or in case of fire.

5.3. Special protective equipment and precautions for fire-fighters

chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting Do not enter fire area without proper protective equipment, including respiratory protection.

EAC code 4W - 4W

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures No flames, no sparks. Eliminate all sources of ignition. Isolate from fire, if possible, without

unnecessary risk.

6.1.1. For non-emergency personnel

Protective equipment Wear protective gloves. protective clothing. Safety goggles. Gas mask.

Emergency procedures Evacuate unnecessary personnel. No flames, no sparks. Eliminate all sources of ignition.

Isolate from fire, if possible, without unnecessary risk.

6.1.2. For emergency responders

Protective equipment Equip cleanup crew with proper protection.

Emergency procedures Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and materials for containment and cleaning up

Methods for cleaning up

Take up liquid spill into absorbent material.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed Normal use of this product shall imply use in accordance with the instructions on the

packaging and in line with the expectations of a professional user.

14/11/2024 NZ - en 3/8



Product Safety Information Sheet

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Precautions for safe handling Do not soak in water or seawater.

Do not expose to strong oxidizers.

Do not give a strong mechanical shock or fling.

Never disassemble, modify or deform.

Do not connect the positive terminal to the negative terminal with electrically conductive

material.

Use only the chargers / electric tools specified by Hilti to charge or discharge the battery.

Do not throw into fire or expose to high temperatures (>85 °C).

Do not connect the positive terminal to the negative terminal with electrically conductive

material.

Hygiene measures Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions Avoid direct sunlight, high temperature, high humidity.

Store in a cool place (temperature: -20 $^{\circ}$ C ~ 40 $^{\circ}$ C, humidity: 45 - 85%).

Incompatible products Strong bases. Strong acids.
Incompatible materials Sources of ignition. Direct sunlight.

Storage temperature -20 – 40 °C

Information on mixed storage Store away from water.

Do not store together with electrically conductive materials.

The accu-pack should be stored at 30 to 50% of the charging capacity.

Avoid storing in places where it is exposed to static electricity.

Storage area Store in a well-ventilated place.

SECTION 8: Exposure controls and personal protection

8.1. Control parameters - exposure standards

No additional information available

Exposure limit values for the other components

Additional information No technical measures are necessary during normal use. In case of leakage of substances

contained within the cell, the information below may be useful.

8.2. Monitoring methods

No additional information available

8.3. Engineering controls

Appropriate engineering controls

If the electrolyte is leaking out of the battery pack, the following measures have to be taken.

8.4. Individual protection measures, such as personal protective equipment (PPE)

Personal protective equipment Avoid all unnecessary exposure.

Hand protection Wear protective gloves.

Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0,12		EN ISO 374

Eye protection Chemical goggles or safety glasses

Respiratory protection Wear appropriate mask

Personal protective equipment symbol(s)





Other information Do not eat, drink or smoke during use.

14/11/2024 NZ - en 4/8



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SECTION 9: Physical and chemical properties

Physical state Solid Appearance plastic case. Colour red Black Odour odourless

Odour threshold No additional information available No additional information available pΗ Evaporation rate No additional information available

Relative evaporation rate (butylacetate=1) No data available

Melting point / Freezing point No additional information available

Boiling point No data available Flash point No data available Auto-ignition temperature No data available Non flammable Flammability

Vapour pressure No additional information available Relative density No additional information available Density No additional information available Solubility No additional information available

Partition coefficient n-octanol/water (Log Pow) No data available Viscosity, dynamic No data available

Explosive properties Risk of explosion by shock, friction, fire or other sources of ignition.

Explosive limits No additional information available

No data available Minimum ignition energy

SECTION 10: Stability and reactivity

Reactivity No additional information available Chemical stability Stable under normal conditions. Possibility of hazardous reactions Heating may cause a fire or explosion.

Direct sunlight. Extremely high or low temperatures. Water, humidity. Conditions to avoid Conductive materials, water, seawater, strong oxidizers and strong acids. Incompatible materials

Hazardous decomposition products fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Toxicity

Not classified Acute toxicity (oral) Acute toxicity (dermal) Not classified Acute toxicity (inhalation) Not classified Not classified Skin corrosion/irritation Serious eye damage/irritation Not classified Respiratory or skin sensitisation Not classified Not classified Germ cell mutagenicity Carcinogenicity Not classified Reproductive toxicity Not classified Not classified STOT-single exposure STOT-repeated exposure Not classified Aspiration hazard Not classified

Potential adverse human health effects and This product contains an organic electrolyte. If the electrolyte is leaking out of the battery symptoms

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.

14/11/2024 NZ - en 5/8



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SECTION 12: Ecological information

12.1. Ecotoxicity

Hazardous to the aquatic environment, short-term

(acute)

Not classified

Hazardous to the aquatic environment, long-term

(chronic)

Not classified

Soil toxicity Not classified
Terrestrial vertebrate toxicity Not classified
Terrestrial invertebrate toxicity Not classified

Other information Do not allow battery packs to penetrate the soil.

The battery cell may corrode and electrolyte may leak.

12.2. Persistence and degradability

Li-Ion Batteries >100 Wh	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

Li-Ion Batteries >100 Wh

Bioaccumulative potential Not established.

12.4. Mobility in soil

Li-Ion Batteries >100 Wh

Mobility in soil No additional information available

12.5. Other adverse effects

Ozone Not classified

Other adverse effects No additional information available

SECTION 13: Disposal considerations

Product/Packaging disposal recommendations Dispose in a safe manner in accordance with local/national regulations. Refer to

 $manufacturer/supplier\ for\ information\ on\ recovery/recycling.$

Ecological information Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / RID /

ADR	IMDG	IATA	RID
14.1. UN number or ID number			
UN 3480	UN 3480	UN 3480	UN 3480
14.2. UN proper shipping name			
LITHIUM ION BATTERIES	LITHIUM ION BATTERIES	Lithium ion batteries	LITHIUM ION BATTERIES
Transport document description			
UN 3480 LITHIUM ION BATTERIES, 9, (E)	UN 3480 LITHIUM ION BATTERIES, 9	UN 3480 Lithium ion batteries, 9	UN 3480 LITHIUM ION BATTERIES, 9
14.3. Transport hazard class(es)			
9	9	9	9

14/11/2024 NZ - en 6/8



Product Safety Information Sheet

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ADR	IMDG	IATA	RID	
14.4. Packing group	14.4. Packing group			
Not applicable	Not applicable	Not applicable	Not applicable	
14.5. 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				

14.6. Special precautions for user

Overland transport

Classification code (ADR) M4

Special provisions (ADR) 230, 377, 376, 636, 310, 348, 387

Limited quantities (ADR)

Packing instructions (ADR) P903, P909, P910, P911, LP903, LP904, LP905, LP906

Transport category (ADR) 2
Tunnel restriction code (ADR) E
EAC code 4W

Transport by sea

Special provisions (IMDG) 230, 376, 377, 310, 348, 384, 387

Limited quantities (IMDG)

Packing instructions (IMDG) P903, P908, P909, P910, P911, LP903, LP904, LP905, LP906

EmS-No. (Fire)F-AEmS-No. (Spillage)S-IStowage category (IMDG)AStowage and handling (IMDG)SW19MFAG-No147

Air transport

PCA packing instructions (IATA) Forbidden
PCA max net quantity (IATA) Forbidden
CAO packing instructions (IATA) See 965

Special provisions (IATA) A88, A99, A154, A164, A183, A213, A331, A802

Rail transport

Special provisions (RID) 230, 310, 348, 376, 377, 387, 636

Limited quantities (RID) 0

Packing instructions (RID) P903, 908, 909, P910, P911, LP903, LP904, LP905, LP906

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific for the product in question

No additional information available

14/11/2024 NZ - en 7/8



Product Safety Information Sheet

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15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

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 Issue date
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 Revision date
 11/11/2024

 Supersedes
 17/04/2024

Indication of changes				
Section	Changed item	Change	Comments	
1	Product name	Added		
3	Comments	Added		

SDS_NZ_Hilti

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.

14/11/2024 NZ - en 8/8