

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: 17/04/2024 Revision date: 17/04/2024 Supersedes: 08/04/2022 Version: 5.13

SECTION 1: Product identifier

1.1. GHS Product identifier

Product form Article

Product name Li-lon Batteries >100 Wh

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 B22-255 Li-lon (01)

1.3. Recommended use of the chemical and restrictions on use

Recommended use For professional use only

Rechargeable Lithium Ion battery for power tools

1.4. Details of manufacturer or importer

Supplier Department issuing data specification sheet:

Hilti (Aust.) Pty. Ltd. Hilti AG

Level 5, 1G Homebush Bay DriveFeldkircherstraße 100P.O. Box 3217Schaan 9494Rhodes NSW 2138Liechtenstein

Australia T +423 234 2111

serviceaustralia@hilti.com

1.5. Emergency phone number

T+61 131 292 - F+61 1300 135 042

Emergency number Emergency CONTACT (24-Hour-Number):

GBK GmbH Global Regulatory Compliance +49 (0)6132-84463

product.compliance-power.tools@hilti.com

Country	Organisation/Company	Address	Emergency number	Comment
Australia	NSW Poisons Information Centre The Children's Hospital at Westmead	Locked Bag 4001 NSW 2145	13 11 26	

SECTION 2: Hazard identification

2.1. Classification of the hazardous chemical

Classification according to the model Work Health and Safety Regulations (WHS Regulations)

Not classified

2.2. GHS Label elements, including precautionary statements

No labelling applicable

19/04/2024 AU - en 1/7



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

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-lon (01) 112,00 Hilti B 22 / 8.0 Li-lon (01) 171,08 Hilti B 36 / 3.0 Li-lon (01) 108,00

Hilti B 36 / 3.3 Li-Ion (01) 118,80 Hilti B 36 / 3.9 Li-Ion (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-lon (01) 170,65

Hilti B 22-255 Li-Ion (01)

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)).

255,96.

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 If the electrolyte is leaking out of the battery pack, the following measures have to be taken. First-aid measures after inhalation Allow affected person to breathe fresh air. 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

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

19/04/2024 AU - en 2/7



Product Safety Information Sheet

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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

Firefighting instructions

Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

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.

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.

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 °C ~ 40 °C, humidity: 45 - 85%).

19/04/2024 AU - en 3/7



Product Safety Information Sheet

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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.

Store in a well-ventilated place.

SECTION 8: Exposure controls and personal protection

8.1. Control parameters - exposure standards

No additional information available

8.2. Biological Monitoring

Storage area

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.

SECTION 9: Physical and chemical properties

Physical state Solid Appearance plastic case. Colour red Black Odour Odourless Odour threshold No data available No data available pH solution No data available Relative evaporation rate (butylacetate=1) No data available Melting point / Freezing point No data available Boiling point No data available Flash point No data available Auto-ignition temperature No data available Flammability No data available Vapour pressure No data available Relative density No data available No data available Density Solubility No data available Partition coefficient n-octanol/water (Log Pow) No data available

19/04/2024 AU - en 4/7



Product Safety Information Sheet

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

Explosive limits

Mo data available
Minimum ignition energy

No data available
Fat solubility

No data available

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.

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

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

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

According to the National Code of Practice for the Preparation of Material Safety Data Sheets, Environmental classification information is not mandatory. Information relevant for GHS classification is available on request

12.1. Ecotoxicity

Hazardous to the aquatic environment, short-term : Not classified

(acute)

Hazardous to the aquatic environment, long-term

(chronic)

: 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-lon Batteries >100 Wh		
Persistence and degradability	Not established.	

12.3. Bioaccumulative potential

Li-lon Batteries >100 Wh	
Bioaccumulative potential	Not established.

19/04/2024 AU - en 5/7



Product Safety Information Sheet

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12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Ozone : Not classified

Other adverse effects : No additional information available

Li-Ion Batteries >100 Wh

Fluorinated greenhouse gases False

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.

Ecology - waste materials 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)			
9A	9A	9A	9A
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 availa	able		

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, P908, P909, P910, P911, LP903, LP904, LP905, LP906

Transport category (ADR) 2
Tunnel restriction code (ADR) E

19/04/2024 AU - en 6/7



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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

15.2. International agreements

No additional information available

SECTION 16: Other information

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Indication of changes			
Section	Changed item	Change	Comments
1.4	Department issuing data specification sheet	Modified	
3	Comments	Modified	
	Emergency number	Modified	

Revision date 17/04/2024

Classification	
Not classified	

SDS_AU_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.

19/04/2024 AU - en 7/7