

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: 24/10/2025 Revision date: 24/10/2025 Supersedes: 11/11/2024 Version: 5.19

SECTION 1: Identification of the hazardous chemical and of the supplier

1.1. Product identifier

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 B 22-260

Pouch (01), Hilti B22-290 Li-Ion (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. Supplier details

Supplier Department issuing data specification sheet

Hilti (Malaysia) Sdn. Bhd. Hilti AG
F-5-A, Sime Darby Brunsfield Tower, No. 2, Jalan PJU 1A/7A Feldkircher Strasse 100

Oasis Square, Oasis Damansara 9494 Schaan 47301 Petaling Jaya, Selangor Liechtenstein Malaysia T +423 234 2111

T +60 3 5628 7222 product.compliance-power.tools@hilti.com

1800 880 985 toll free - F +60 3 7848 7399

myhilti@hilti.com

1.5. Emergency phone number

Emergency number GBK GmbH Global Regulatory Compliance

+49 (0)6132-84463

Country	Organisation/Company	Address	Emergency number	Comment
Malaysia	Malaysia National Poison Centre (NPC) Universiti Sains Malaysia	11800 Penang	+60 (0)4 6536 999 (Mon-Fri 8am-10pm; Sat, Sun & Public Holiday 8am-5pm)	

SECTION 2: Hazards identification

2.1. Classification of the hazardous chemical

Classification according to Industry Code of Practice on chemicals classification and hazard communication (2019)

Not classified

2.2. Label elements

Labelling according to Industry Code of Practice on chemicals classification and hazard communication (2019)

No labelling applicable

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2.3. Other hazards that 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

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 of the ingredients of the hazardous chemical

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

112 00

Hilti B 22 / 5.2 Li-lon (01) 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-lon (01) 118,80 Hilti B 36 / 3.9 Li-lon (01) 140,40

Hilti B 36 / 5.2 Li-lon (01) 187,20 Hilti B 36 / 6.0 Li-lon (01) 216.00

Hilti B 36 / 9.0 Li-lon (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-Ion (01) 255.96

Hilti B 22-260 Pouch (01) 251 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 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.

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

4.2. Most important symptoms/effects, acute and delayed

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

4.3. Indication of immediate medical attention and special treatment needed, if necessary

SECTION 5: Fire-fighting measures

5.1. Suitable 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. Physicochemical hazards arising from the chemical

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.

EAC code 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.

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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).

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%).

Storage areaStore in a well-ventilated place.Incompatible productsStrong bases. Strong acids.Incompatible materialsSources of ignition. Direct sunlight.

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 temperature -20 – 40 °C

SECTION 8: Exposure controls and personal protection

8.1. Control parameters

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.

8.1.1 Biological monitoring

No additional information available

8.2. Appropriate engineering controls

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

8.3. Individual protection measures, such as PPE

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

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Personal protective equipment symbol(s):





SECTION 9: Physical and chemical properties

Physical state Appearance plastic case. Colour red,Black Odour odourless Odour threshold No data available No data available Melting point No data available Freezing point No data available Boiling point No data available No data available Flash point Evaporation rate No data available Flammability (solid, gas) Non flammable No data available **Explosive limits** No data available Vapour pressure Relative vapour density at 20°C No data available Relative density No data available Solubility No data available No data available Partition coefficient n-octanol/water (Log Pow) Partition coefficient n-octanol/water (Log Kow) No data available Auto-ignition temperature No data available Decomposition temperature No data available Viscosity, kinematic No data available

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

No data available

SECTION 10: Stability and reactivity

Viscosity, dynamic

Reactivity No data 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

11.1. Information on toxicological effects

Acute toxicity (oral) Not classified Acute toxicity (dermal) Not classified Acute toxicity (inhalation) Not classified Skin corrosion or irritation Not classified Serious eye damage or eye irritation Not classified Respiratory sensitization Not classified Skin sensitization Not classified Germ cell mutagenicity Not classified Carcinogenicity Not classified

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Reproductive toxicity
Specific target organ toxicity (STOT) – single

exposure

Not classified Not classified

Specific target organ toxicity (STOT) - repeated

exposure

Not classified

Aspiration hazard
Potential adverse human health effects and

symptoms

Not classified

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

12.1. Ecotoxicity

Hazardous to the aquatic environment, short-term

(acute)

Not classified

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 B	atteries	>100	Wh
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Persistence and degradability Not established.

12.3. Bioaccumulative potential

LI-ION	Batteries	>100	vvr

Bioaccumulative potential Not established.

12.4. Mobility in soil

Li-lon	Batteries	>100	Wh
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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 information

13.1. Disposal 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.

Ecological waste information Avoid release to the environment.

SECTION 14: Transportation 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			

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ADR	IMDG	IATA	RID	
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	
14.4. 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)

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)

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

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14.7. Maritime transport in bulk according to IMO instruments

Not applicable

14.8. Hazchem or Emergency Action Code

EAC code : 4W.

SECTION 15: Regulatory information

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

Regulation		Component/ Mixture
EHS Notification and Registration Scheme	Not applicable	
EHS Notification and Registration Scheme	Not applicable	
Environmental Quality (Chlorofluorocarbons Prohibition) Order 1993		
Environmental Quality (Industrial Efflluent) Regulations 2009		
Environmental Quality (Scheduled Wastes) Regulations 2007		
Control of Industrial Major Accident Hazards Regulations 1996		
Prohibition of Use of Substance Order 1999		
Use and Standards of Exposure of Chemical Hazardous to Health Regulations 2000		
Chemical Weapons Convention Act		
Corrosive and Explosive Substances and Offensive Weapons Act		
Dangerous Drugs Act		
Pesticides Act		
Petroleum (Safety Measures) Act]	
Poisons Act 1952		
Poisons (Psychotropic Substances) Regulations 1989		

15.2. International agreements

No additional information available

SECTION 16: Other information

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 5.19

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 24/10/2025

 Supersedes
 11/11/2024

Indication of changes				
Section	Changed item	Change	Comments	
1.2	Product name - Trade name	Added		

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Indication of changes				
Section	Changed item	Change	Comments	
3.2	Comments	Added		

SDS_MY_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.

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