

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: 23/02/2022 Version: 5.13

SECTION 1: Identification

1.1. GHS Product identifier

Product form Article

Product name Li-Ion Batteries >100 Wh

UN-No. (ADR) 3480
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 /

 $3.0\ \text{Li-lon (01), Hilti B 36} \ / \ 3.3\ \text{Li-lon (01), Hilti B 36} \ / \ 3.9\ \text{Li-lon (01), Hilti B 36} \ / \ 5.2\ \text{Li-lon (01), Hilti B 36} \ / \ 6.0\ \text{Li-lon (01), Hilti B 36} \ / \ 9.0\ \text{Li-lon (01), Hilti B 22-110 Li-lon (01), Hilti B 24-110 Li-lon (01), Hilti B 24-110$

B22-170 Li-Ion (01), Hilti B22-255 Li-Ion (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. Supplier's details

Supplier Department issuing data specification sheet

Hilti Emirates L.L.C. Hilti AG

Dubai Investment Park
P.O. Box 11051
FL- 9494 Schaan
AE- Dubai
Liechtenstein
United Arab Emirates
T +423 234 2111

T +971 800 44584 - F +971 4 885 4405 product.compliance-power.tools@hilti.com

ae.contactus@hilti.com - www.hilti.ae

1.5. Emergency phone number

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

GBK GmbH Global Regulatory Compliance

+49 (0)6132-84463

+971 4 8019694

800-Hilti (44584) (Toll free)

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Not classified

2.2. GHS Label elements, including precautionary statements

Labelling according to the United Nations GHS

No labelling applicable

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2.3. Other hazards which do not result in classification

Other hazards not contributing to the 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/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-lon (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-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-lon (01) 170,65 Hilti B 22-255 Li-lon (01) 255,96

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

Cisists.

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.

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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.

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

Treat symptomatically.

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. Specific 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 actions 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.

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.

Other information Dispose of materials or solid residues at an authorized site.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

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.

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.

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 area Store in a well-ventilated place.
Incompatible products Strong bases. Strong acids.
Incompatible materials Sources 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/personal protection

8.1. Control parameters

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.

Do not eat, drink or smoke during use.

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

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection

Other information

Wear protective gloves. 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)





8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state Solid Appearance plastic case Colour red. Black. Odour Odourless. Odour threshold Not available Melting point Not available Freezing point Not available Boiling point Not available Flammability Non flammable. Lower explosion limit Not applicable Upper explosion limit Not applicable Flash point Not applicable Not applicable Auto-ignition temperature Decomposition temperature Not available Not available pH solution Not available Viscosity, kinematic (calculated value) (40 °C) Not applicable Partition coefficient n-octanol/water (Log Kow) Not available Vapour pressure Not available Not available Vapour pressure at 50°C Not available Density Not available Relative density Not applicable Relative vapour density at 20°C Solubility Not available Particle size Not available

9.2. Data relevant with regard to physical hazard classes (supplemental)

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

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Heating may cause a fire or explosion.

10.4. Conditions to avoid

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

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10.5. Incompatible materials

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

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) Not classified Not classified Acute toxicity (dermal) 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

12.1. Toxicity

Hazardous to the aquatic environment, short-term

(acute)

Not classified

Hazardous to the aquatic environment, long-term

(chronic)

Not classified

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

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

The battery cell may corrode and electrolyte may leak.

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SECTION 13: Disposal considerations

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.

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 nam	e		
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(e	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) 0

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

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

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

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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

SECTION 16: Other information

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basis<ReplaceEmptyCellBy_NO_RELEVANT_DATA>

 Issue date
 4/17/2024

 Revision date
 4/17/2024

 Supersedes
 2/23/2022

Section	Changed item	Change	Comments
1.3	Department issuing data specification sheet	Modified	
3	Comments	Modified	
1.4	Emergency number	Modified	

SDS_UN_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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