

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: 14.07.2022 Version: 7.18

SECTION 1: Identification

1.1. Product identifier

Name Li-Ion Batteries <100 Wh

Product code BU ET&A

1.2. Other means of identification

Other means of identification

Hilti B 7/1.5 Li-lon (01), Hilti B 7/2.0 Li-lon (01), Hilti B 7/2.5 Li-lon (01), Hilti B 12/2.6 Li-lon (01), Hilti B 12/4.0 Li-lon (01), Hilti B 12-30 Li-lon (01), Hilti B 12-55 Li-lon (01), Hilti B 14/1.6 Li-lon (01), Hilti B 14/2.6 Li-lon (01), Hilti B 14/3.3 Li-lon (01), Hilti B 14/5.2 Li-lon (01), Hilti B 18/1.6 Li-lon (01), Hilti B 18/2.6 Li-lon (01), Hilti B 18/2.6 Li-lon (02), Hilti B 18/3.3 Li-lon (01), Hilti B 22/1.6 Li-lon (01), Hilti B 22/2.6 Li-lon (01), Hilti B 22/3.0 Li-lon (01), Hilti B 22/3.3 Li-lon (01), Hilti B 22/4.0 Li-lon (01), Hilti B 36/2.4 Li-lon (01), Hilti B 36/2.6 Li-lon (02), Hilti B 144/2.6 Li-lon (01), Hilti B 22-55 Li-lon (01), Hilti B 22-85 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. Supplier's details

Supplier

Hilti Far East Private Ltd.

80 Pasir Panjang Road, #16-83/84 Mapletree Business City Singapore

Singapur 117372

T +65 6777 7887 - F +65 6777 3057 sg-customerservice@hilti.com

Department issuing data specification sheet

Hilti AG

Feldkircherstraße 100 Schaan Liechtenstein 9494

T +423 234 2111

product.compliance-power.tools@hilti.com

1.5. Emergency phone number

Emergency number

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

No additional information available

2.2. GHS label elements including precautionary statements

No additional information available

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.

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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments

Lithium Ion rechercheable battery pack:

Littilatii ioii icciiciciic	abic battery pack.
Name/Type	Energy content (Wh).
B 7 / 1.5 Li-lon (01)	10,80
B 7 / 2.0 Li-lon (01)	14,40
B 7 / 2.5 Li-lon (01)	18,00
B 12 / 2.6 Li-lon (01)	28,10
B 12 / 4.0 Li-lon (01)	42,66
B 12-30 Li-lon (01)	27.00 / 28,10
B 12-55 Li-lon (01)	54,00
B 14 / 1.6 Li-lon (01)	23,00
B 14 / 2.6 Li-Ion (01)	36,00
B 14 / 3.3 Li-lon (01)	48,00
B 14 / 5.2 Li-lon (01)	73,40
B 18 / 1.6 Li-lon (01)	34,60
B 18 / 2.6 Li-lon (01)	56,20
B 18 / 2.6 Li-Ion (02)	56,20
B 18 / 3.3 Li-lon (01)	71,30
B 22 / 1.6 Li-lon (01)	34,60
B 22 / 2.6 Li-Ion (01)	56,20
B 22 / 2.6 Li-Ion (02)	56,20
B 22 / 3.0 Li-lon (01)	64,80
B 22 / 3.3 Li-lon (01)	71,30
B 22 / 4.0 Li-lon (01)	86,40
B 36 / 2.6 Li-lon (01)	93,60
B 36 / 2.6 Li-Ion (02)	93,60
B 144 / 2.6 Li-lon (01)	37,44
B 22-55 Li-lon (01)	54,00
B 22-85 Li-lon (01)	85,32.
This product contains	a positiva alastrada (Li

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

Inhalation Skin contact

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

Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Ingestion

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

Other medical advice or treatment Treat symptomatically.

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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.

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 material 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.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

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.

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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%).

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.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters/Occupational exposure limits

No additional information available

8.2. Monitoring

No additional information available

8.3. Appropriate engineering control measures

8.4. Personal protection

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

Personal protective equipment symbol(s)





SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Solid Appearance plastic case. Colour red,Black Odour Odourless No data available Odour threshold No data available рΗ Relative evaporation rate (butylacetate=1) No data available Melting point No data available Freezing point No data available Boiling point No data available Flash point No data available Auto-ignition temperature No data available Decomposition temperature No data available Flammability Non flammable.

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Vapour pressure No data available Relative vapour density at 20°C No data available No data available Relative density No data available Solubility Partition coefficient n-octanol/water (Log Pow) No data available Partition coefficient n-octanol/water (Log Kow) No data available Viscosity, dynamic No data available

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

No data available Oxidising properties Explosive limits No data available

9.2. Other information

No additional information available

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.

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. Acute toxicity

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

Other information

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.

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.

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SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term

(acute)

Hazardous to the aquatic environment, long-term

(chronic)

Not classified

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-lon 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.

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	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		

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ADR	IMDG	IATA	RID	
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) 188, 230, 310, 348, 376, 377, 387, 636

Limited quantities (ADR)

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) 188, 230, 310, 348, 376, 377, 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, A201, A213, A331, A334, A802

Rail transport

Special provisions (RID) 188, 230, 310, 348, _376, 377, 387, 636

Limited quantities (RID)

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 regulations

No additional information available

15.3 Chemical inventory status

No additional information available

SECTION 16: Other information

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 Issue date
 17/04/2024

 Revision date
 17/04/2024

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

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