

# **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 basisIssue date: 11/11/2024Revision date: 11/11/2024Supersedes: 17/04/2024Version: 7.22

SECTION 1: Product identifier		
1.1. GHS Product identifier		
Product form	Article	
Product 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-Ion (01), Hilti B 7/2.0 Li-Ion (01), Hilti B 7/2.5 Li-Ion (01), Hilti B 12/2.6 Li-Ion (01), Hilti B 12/4.0 Li-Ion (01), Hilti B 12-30 Li-Ion (01), Hilti B 12-55 Li-Ion (01), Hilti B 14/1.6 Li-Ion (01), Hilti B 14/2.6 Li-Ion (01), Hilti B 14/3.3 Li-Ion (01), Hilti B 18/1.6 Li-Ion (01), Hilti B 18/2.6 Li-Ion (01), Hilti B 18/2.6 Li-Ion (02), Hilti B 18/3.3 Li-Ion (01), Hilti B 22/1.6 Li-Ion (01), Hilti B 22/2.6 Li-Ion (01), Hilti B 22/2.6 Li-Ion (02), Hilti B 22/3.0 Li-Ion (01), Hilti B 22/3.3 Li-Ion (01), Hilti B 22/3.0 Li-Ion (01), Hilti B 22/3.3 Li-Ion (01), Hilti B 36/2.6 Li-Ion (02), Hilti B 36/2.6 Li-Ion (01), Hilti B 22/55 Li-Ion (01), Hilti B 36/2.4 Li-Ion (01), Hilti B 36/2.6 Li-Ion (02), Hilti B 22-55 Li-Ion (01), Hilti B 22-85 Li-Ion (01), Hilti B 22-100 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. Details of manufacturer or importer		
Supplier Hilti (Aust.) Pty. Ltd. Level 5, 1G Homebush Bay Drive P.O. Box 3217 Rhodes NSW 2138 Australia T +61 131 292 - F +61 1300 135 042 serviceaustralia@hilti.com	Department issuing data specification sheet: Hilti AG Feldkircherstraße 100 Schaan 9494 Liechtenstein T +423 234 2111 product.compliance-power.tools@hilti.com	
1.5. Emergency phone number		
Emergency number	Emergency CONTACT (24-Hour-Number):	

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

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



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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

ation on ingreal	ents
Lithium Ion recherche	able 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-Ion (01)	42,66
B 12-30 Li-Ion (01)	27.00 / 28,10
B 12-55 Li-Ion (01)	54,00
B 14 / 1.6 Li-Ion (01)	23,00
B 14 / 2.6 Li-Ion (01)	36,00
B 14 / 3.3 Li-Ion (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-Ion (01)	56,20
B 18 / 2.6 Li-lon (02)	56,20
B 18 / 3.3 Li-Ion (01)	71,30
B 22 / 1.6 Li-lon (01)	34,60
B 22 / 2.6 Li-lon (01)	56,20
B 22 / 2.6 Li-lon (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-lon (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
B 22-100 Li-lon (01)	97,2.
This product contains	a positiva algotrada (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



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4.1. Description of necessary first-aid me	easures
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 persists.
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 treatm	ent
Other medical advice or treatment	Treat symptomatically.

#### 

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 chemi	ical
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 preca	utions 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 measures6.1. Personal precautions, protective equipment and emergency proceduresGeneral measuresNo flames, no sparks. Eliminate all sources of ignition. Isolate from fire, if possible, without unnecessary risk.6.1.1. For non-emergency personnelProtective equipmentWear protective gloves. protective clothing. Safety goggles. Gas mask.Emergency respondersProtective equipmentEquip cleanup crew with proper protection.Protective equipmentEquip cleanup crew with proper protection.Equip cleanup crew with proper protection.Protective equipmentEquip cleanup crew with proper protection.Protective equipmentEquip cleanup crew with proper protection.

#### 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.



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<b>SECTION 7: Handling and stora</b>	age
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, inclu	ding 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.

# **SECTION 8: Exposure controls and personal protection**

#### 8.1. Control parameters - exposure standards

No additional information available

#### 8.2. Biological Monitoring

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 equipmed Hand protection					
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)



Do not eat, drink or smoke during use.



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SECTION 9: Physical and chemica	l properties
Physical state	Solid
Appearance	plastic case.
Colour	red Black
Odour	odourless
Odour threshold	No data available
рН	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
Density	No data available
Solubility	No data available
Partition coefficient n-octanol/water (Log Pow)	No data available
Explosive properties	Risk of explosion by shock, friction, fire or other sources of ignition.
Explosive limits	No data available
Minimum ignition energy	No data available
Fat solubility	No data available

# SECTION 10: Stability and reactivity

Reactivity Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials Hazardous decomposition products No additional information available Stable under normal conditions. Heating may cause a fire or explosion. Direct sunlight. Extremely high or low temperatures. Water, humidity. Conductive materials, water, seawater, strong oxidizers and strong acids. 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



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#### **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 : Not classified (chronic) 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 No additional information available 12.5. Other adverse effects Ozone : Not classified Other adverse effects No additional information available ÷ Li-Ion Batteries <100 Wh False Fluorinated greenhouse gases

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**

n accordance with ADR / IMDG / IATA / RID /				
ADR	IMDG	ΙΑΤΑ	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	



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ADR	IMDG	ΙΑΤΑ	RID	
14.4. Packing group	I			
Not applicable	Not applicable	Not applicable	Not applicable	
14.5. Environmental hazards	I			
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 u	ser			
Overland transport Classification code (ADR) Special provisions (ADR) Limited quantities (ADR) Packing instructions (ADR) Transport category (ADR) Tunnel restriction code (ADR)	0	188, 230, 310, 348, 376, 377, 387, 636 0 P903, P908, P909, P910, P911, LP903, LP904, LP905, LP906 2		
Transport by sea Special provisions (IMDG) Limited quantities (IMDG) Packing instructions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG) Stowage and handling (IMDG) MFAG-No	188, 230, 310, 348, 376, 377, 384, 387 0 P903, P908, P909 , P910, P911, LP903, LP904, LP905, LP906 F-A S-I A SW19 147			
<b>Air transport</b> PCA packing instructions (IATA) PCA max net quantity (IATA) CAO packing instructions (IATA) Special provisions (IATA)	Forbidden Forbidden See 965 A88, A99, A154, A	Forbidden		
Rail transport Special provisions (RID) Limited quantities (RID) Packing instructions (RID)	188, 230, 310, 348, _376, 377, 387, 636 0 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

No additional information available

# 15.2. International agreements

No additional information available



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## **SECTION 16: Other information**

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

Revision date

11/11/2024

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.