

## **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: 19/07/2024 Revision date: 19/07/2024 Supersedes: 17/10/2022 Version: 2.18

## **SECTION 1: Identification**

#### 1.1. GHS Product identifier

Product form Article

Product name Li-Ion Batteries BU Measuring

UN-No. (ADR) 3480
Product code BU ET&A

#### 1.2. Other means of identification

Other means of identification Li-Ion Batteries POA 41, POA 80, POA 94, POA 93, POA 99, PPA 102, PRA 84,

PRA 84 02, PRA 84 03, PRA 84 G, PSA 81, PSA 82, PSA 83, AI E20, AI E21, PD-C

#### 1.3. Recommended use of the chemical and restrictions on use

Recommended uses and restrictions

For professional use only

Recommended use

Rechargeable Lithium Ion battery

#### 1.4. Supplier's details

Supplier Department issuing data specification sheet

Hilti Qatar W.L.L. Hilti AG

Souq Al Rawda Feldkircherstraße 100
Salwa Road FL 9494 Schaan
P.O. Box 24097 Liechtenstein
QA Doha Ad Dawhah T +423 234 2111

Qatar product.compliance-power.tools@hilti.com

T +974 4406 3600, F +974 4406 3669

QA.info@hilti.com

#### 1.5. Emergency phone number

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

GBK GmbH Global Regulatory Compliance

+49 (0)6132-84463

+974 4406 3600

# **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

Lithium Ion rechercheable battery pack:			
Name/Type	Energy content (Wh)		
POA 41	68		
POA 80	19,8		
POA 84	55		
POA 90	45		
POA 93	49		
POA 99	70,2		
PPA 102	43,09		
PRA 84	33,0		
PRA 84 02	37,0		
PRA 84 03	36,0		
PRA 84 G	44,0		
PSA 81	37		
PSA 82	36		
PSA 83	97,2		
AI E20	8		
AI E21	16		
PD-C	11		

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 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.

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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. Most important symptoms/effects, acute and delayed

Symptoms/effects
Potential adverse human health effects and

Potential adverse numan nealth effects an

symptoms

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

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

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 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.

#### 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.

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  $-20 - 40 \, ^{\circ}\text{C}$ 

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

#### 8.1. Control parameters

Other information

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 Wear protective gloves. Wear protective gloves.

Eye protection Chemical goggles or safety glasses

#### Personal protective equipment symbol(s)





### 8.4. Exposure limit values for the other components

No additional information available

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## SECTION 9: Physical and chemical properties

#### 9.1. Basic physical and chemical properties

Solid Physical state **Appearance** plastic case Colour red. Black. Odour Not available Odour threshold Not available Melting point Not available Freezing point Not available Not available Boiling point Not available Flammability Not applicable Lower explosion limit Not applicable Upper explosion limit Not applicable Flash point Auto-ignition temperature Not applicable 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 Vapour pressure at 50°C Not available Density Not available Relative density Not available Not applicable Relative vapour density at 20°C Not available Solubility 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

 $\label{lem:continuous} \mbox{ Direct sunlight. Extremely high or low temperatures. Water, humidity.}$ 

#### 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. Information on toxicological effects

Acute toxicity (oral)

Acute toxicity (dermal)

Not classified

Not classified

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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 Not classified Reproductive toxicity STOT-single exposure Not classified STOT-repeated exposure Not classified Not classified Aspiration hazard

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

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Persistence and degradability No additional information available

### 12.3. Bioaccumulative potential

#### Li-Ion Batteries BU Measuring

Bioaccumulative potential No additional information available

#### 12.4. Mobility in soil

## Li-Ion Batteries BU Measuring

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.

## **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.

Ecological information Avoid release to the environment.

### **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / RID /

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ADR	IMDG	IATA	RID			
14.1. UN number or ID number	r					
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			
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) 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

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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

## **SECTION 16: Other information**

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basis<ReplaceEmptyCellBy\_NO\_RELEVANT\_DATA>

 Issue date
 7/19/2024

 Revision date
 7/19/2024

 Supersedes
 10/17/2022

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