

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

SECTION 1: Identification

1.1. Identification

Product form Article

Product name Li-Ion Batteries BU Measuring

Product code BU ET&A

Other means of identification Li-lon Batteries POA 41, POA 80, POA 84, POA 90, 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

1.2. Recommended use and restrictions on use

Recommended use Rechargeable Lithium Ion battery
Restrictions on use For professional use only

1.3. Supplier

Supplier Department issuing data specification sheet

Hilti, Inc. Hilti AG

Legacy Tower, Suite 1000
7250 Dallas Parkway
FL 9494 Schaan
US TX 75024 Plano
USA
Liechtenstein
T +423 234 2111

T +1 9724035800 product.compliance-power.tools@hilti.com

1-800-879-8000 toll free, F +1 918 254 0522 us-sales@hilti.com

1.4. Emergency telephone number

Emergency number Emergency CONTACT (24-Hour-Number)

GBK/Infotrac ID 101022

(USA domestic) 1 800 535 5053 or international (001) 352 323 3500

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Not classified

2.2. GHS Label elements, including precautionary statements

GHS US labelling

No labelling applicable

07/22/2024 US-OSHA - en Page 1



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

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.

2.4. Unknown acute toxicity (GHS US)

Not applicable

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)		
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 criteria of section 3.2 of HazCom 2012

07/22/2024 US-OSHA - en 2/9



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

SECTION 4: First-aid measures

4.1. Description of first aid measures

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. Most important symptoms and effects (acute and delayed)

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.

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

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

Symptoms/effects

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) 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 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.

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 material for containment and cleaning up

Methods for cleaning up Take up liquid spill into absorbent material.

07/22/2024 US-OSHA - en 3/9



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

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

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.

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.

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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Hygiene measures

Li-Ion Batteries BU Measuring

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/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear protective gloves.

Eye protection:

Chemical goggles or safety glasses

07/22/2024 US-OSHA - en 4/9



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

Personal protective equipment symbol(s):





Other information:

Do not eat, drink or smoke during use.

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 No data available 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 Relative evaporation rate (butylacetate=1) No data available Flammability (solid, gas) No data available Vapour pressure No data available Relative vapour density at 20°C No data available Relative density No data available No data available Solubility Partition coefficient n-octanol/water (Log Pow) No data available Auto-ignition temperature No data available Decomposition temperature No data available Viscosity, kinematic No data available Viscosity, dynamic No data available

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

No data available

Oxidising properties No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Explosive limits

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.

07/22/2024 US-OSHA - en 5/9



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

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. Information on toxicological effects

Acute toxicity (oral) Not classified Acute toxicity (dermal) Not classified Not classified Acute toxicity (inhalation) 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 Viscosity, kinematic No data available

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.

Symptoms/effects

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

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

No additional information available

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information

Do not allow battery packs to penetrate the soil.

The battery cell may corrode and electrolyte may leak.

07/22/2024 US-OSHA - en 6/9



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

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 /

ADR	DR 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)			
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, 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

07/22/2024 US-OSHA - en 7/9



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

EmS-No. (Fire) F-A S-I EmS-No. (Spillage) Stowage category (IMDG) Stowage and handling (IMDG) SW19 MFAG-No 147

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) 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. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:

Li-Ion Batteries BU Measuring CAS-No. 100%

15.2. International regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

A safety data sheet is not required for this product. This Product Safety Information Sheet has been created on a voluntary basis

Revision date 07/19/2024

All components of this product are present and listed as Active on the United States Other information

Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory. All components of this product are listed, or excluded from listing, on the Canadian Domestic

Substances List (DSL) / Non-Domestic Substances List (NDSL).

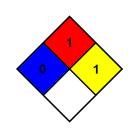
NFPA health hazard 0 - Materials that, under emergency conditions, would offer no hazard

beyond that of ordinary combustible materials.

NFPA fire hazard 1 - Materials that must be preheated before ignition can occur. NFPA reactivity

1 - Materials that in themselves are normally stable but can become

unstable at elevated temperatures and pressures.



07/22/2024

US-OSHA - en



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

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

SDS_US_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.

07/22/2024 US-OSHA - en 9/9