

Hilti B 3600

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: 22.10.2024 Revision date: 22.10.2024 Supersedes: 21.07.2022 Version: 1.1

SECTION 1: Identification

1.1. Product identifier

Name Hilti B 3600
Product code BU ET&A

1.2. Other means of identification

Other means of identification Hilti B 3600 (01); Battery Power Supply

1.3. Recommended use of the chemical and restrictions on use

Recommended use Electrical batteries and accumulators
Restrictions on use For professional use only

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 broken 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

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3.2. Mixtures

| | |
|----------|--|
| Comments | Lithium Ion rechargeable battery pack: Name/Type Energy content (Wh). B 3600 (01) 24x86,4. 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

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|----------------------------|--|
| First-aid measures general | If the electrolyte is leaking out of the battery pack, the following measures have to be taken. |
| Inhalation | Allow affected person to breathe fresh air. Allow the victim to rest. |
| 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. |
| Eye contact | Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. |
| 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. |
|------------------|--|

4.3. Indication of immediate medical attention and special treatment needed

| | |
|-----------------------------------|------------------------|
| Other medical advice or treatment | 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. |
|------------------------------|---|

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. |
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6.1.1. For non-emergency personnel

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|----------------------|--|
| Protective equipment | Wear protective gloves, protective clothing. Safety goggles. Gas mask. |
| Emergency procedures | Evacuate unnecessary personnel. |

6.1.2. For emergency responders

| | |
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| Protective equipment | Equip cleanup crew with proper protection. |
| Emergency procedures | Ventilate area. |

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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. |
| Hygiene measures | 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. |
| Storage area | 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. 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

| | |
|----------------------------------|---|
| Appropriate engineering controls | If the electrolyte is leaking out of the battery pack, the following measures have to be taken. |
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8.4. Personal protection

| | |
|-----------------|-------------------------|
| Hand protection | Wear protective gloves. |
|-----------------|-------------------------|

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| Type | 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 |
| Odour threshold | No data available |
| pH | No data available |
| 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. |
| Vapour pressure | No data available |
| Relative vapour density at 20°C | No data available |
| Relative density | No data available |
| Solubility | No data available |
| 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 |
| Explosive properties | Risk of explosion by shock, friction, fire or other sources of ignition. |
| Oxidising properties | No data available |
| 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.

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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. 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 | 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 |
| 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

| Hilti B 3600 | |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |

12.3. Bioaccumulative potential

| Hilti B 3600 | |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |

12.4. Mobility in soil

| Hilti B 3600 | |
|------------------|-------------------------------------|
| Mobility in soil | No additional information available |

12.5. Other adverse effects

| | |
|-----------------------|-------------------------------------|
| Ozone | Not classified |
| Other adverse effects | No additional information available |

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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 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 | 9A | 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 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) | 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) | 188, 230, 310, 348, 376, 377, 384, 387 |
| Limited quantities (IMDG) | 0 |
| Packing instructions (IMDG) | P903, P908, P909, P910, P911, LP903, LP904, LP905, LP906 |
| EmS-No. (Fire) | F-A |
| EmS-No. (Spillage) | S-I |
| Stowage category (IMDG) | A |
| Stowage and handling (IMDG) | SW19 |
| MFAG-No | 147 |

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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 |

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. Safety, health and environmental regulations specific for the product in question

| Regulation | Component / Mixture |
|--|---------------------|
| Arms and Explosives Act | Not applicable |
| Chemical Weapons Prohibition Act | |
| Environmental Protection and Management (Air Impurities) Regulations | |
| Environmental Protection and Management Act (Hazardous Substances) | |
| Environmental Public Health (Quality of Piped Drinking Water) Regulations | |
| Fire Safety Act/Fire Safety (Petroleum and Flammable Materials) Regulations | |
| Maritime and Port Authority of Singapore (Dangerous, Petroleum and Explosives) Regulations | |
| Misuse of Drugs Act | |
| Poisons Act | |
| Poisons Rules | |
| Hazardous waste (Control of export, import and transit) Act | |
| Strategic goods (Control) Act | |

15.2. International regulations

No additional information available

15.3 Chemical inventory status

No additional information available

SECTION 16: Other information

| | |
|---------------|------------|
| Issue date | 22/10/2024 |
| Revision date | 22/10/2024 |

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| Indication of changes | | | |
|-----------------------|---|----------|----------|
| Section | Changed item | Change | Comments |
| 1 | Department issuing data specification sheet | Modified | |
| 1 | Emergency number | Modified | |
| 1 | Other means of identification | Modified | |

SDS_SG_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.