

**Lithium-Ionen-Batterie BP18, BP 18 Li 8,0 HP-ASI, TBX 8**

Revision: 20.03.2026

Product code: 11912-0035

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Lithium-Ionen-Batterie BP18, BP 18 Li 8,0 HP-ASI, TBX 8

**Further trade names**

Lithium-Ionen-Batterie BP18, BP 18 Li 8,0 HP-ASI (10262545, 10796090) , TBX 8

Note: This product is an "article" and is not an object that is required to issue Safety Data Sheets (SDS) by regulations concerning chemical substances. This SDS voluntarily offers helpful information for your safe handling and environmental care.

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Lithium-Ion battery &gt; 100 Wh.

**Uses advised against**

For use as a battery-based power supply only. Do not rupture or expose solution inside of the power cells.

**1.3. Details of the supplier of the safety data sheet**

|                         |   |                              |
|-------------------------|---|------------------------------|
| Company name:           | Festool GmbH  |                              |
| Street:                 | Wertstraße 20   |                              |
| Place:                  | D-73240 Wendlingen  |                              |
| Telephone:              | +49(0)7024 804 0  | Telefax: +49 (0)7024 804 600 |
| Internet:               | www.festool.com   |                              |
| Responsible Department: | Responsible for the safety data sheet: sds@gbk-ingelheim.de |                              |

**1.4. Emergency telephone number:**

Public Poisons Information Line: +353 (0) 1 809 2166 (8am-10pm 7 days a week)  
Emergency telephone :+49 (0) 6132 / 84463 (GBK GmbH, Ingelheim)

**Further Information**

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**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

This mixture is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.

The following information is required only in case of exposure to interior battery components after damage of the external battery casing.

Undamaged, closed batteries do not represent a danger to the health.

Note: This product is an "article" and is not an object that is required to issue Safety Data Sheets (SDS) by regulations concerning chemical substances. This SDS voluntarily offers helpful information for your safe handling and environmental care.

**2.2. Label elements****Regulation (EC) No 1272/2008****Special labelling**

EUH210 Safety data sheet available on request.

**Additional advice on labelling**

There is no hazard when the measures for handling and storage are followed.

**2.3. Other hazards**

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No hazards in case of an intact battery and observation of the instructions for use.

Heat development under short-circuit conditions.

In case of electrolyte leakage:

Causes severe irritation of eyes, skin and mucous membranes.

May cause respiratory irritation.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Chemical characterization

metallic oxides 40-45 %, Carbon 20-25%, Aluminium 10-12%, Copper 6-9%, Electrolyte solution (Organic solvent) 11-14%

#### Hazardous components

none (according to Regulation (EC) No 1907/2006 (REACH))

#### Further Information

Because of the battery structure the dangerous ingredients will not be available if used properly.

Undamaged, closed batteries do not represent a danger to the health.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

The following first aid measures are required only in case of exposure to interior battery components after damage of the external battery casing.

Undamaged, closed batteries do not represent a danger to the health.

#### After inhalation

Ensure of fresh air.

Wash mouth and nasal passages with water.

Call a physician immediately.

Do not make mouth-to-mouth resuscitation.

If patient is not breathing, apply artificial respiration.

#### After contact with skin

Take off contaminated clothing and wash it before reuse.

Seek medical treatment immediately.

#### After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 30 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

Seek medical treatment by eye specialist.

#### After ingestion

Rinse mouth.

Drink plenty of water or milk.

Never give anything by mouth to an unconscious person.

Do not induce vomiting.

Quickly transport victim to an emergency care facility

### 4.2. Most important symptoms and effects, both acute and delayed

In case of electrolyte leakage:

Causes severe irritation of eyes, skin and mucous membranes.

May cause respiratory irritation.

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Coughing  
Shortness of breath

#### **4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptoms.

### **SECTION 5: Firefighting measures**

#### **5.1. Extinguishing media**

##### **Suitable extinguishing media**

Use in case of small fire: Water, Carbon dioxide (CO<sub>2</sub>), Dry powder, Sand.  
Use in case of large fire: water spray jet, Alcohol-resistant foam.

##### **Unsuitable extinguishing media**

Not known.

#### **5.2. Special hazards arising from the substance or mixture**

During contact of electrolyte with water hydrofluoric acid can be formed.  
Heat development under short-circuit conditions.  
Fire may produce:  
Smoke contains combustible, irritating/corrosive and toxic gases.

#### **5.3. Advice for firefighters**

Wear positive pressure self-contained breathing apparatus and protection suit.

##### **Additional information**

If possible, remove batteries from fire fighting area. If heated above 125°C, batteries can explode/vent.  
Batteries is not flammable but internal organic material will burn if the batteries is incinerated.  
Stand upwind of the fire while extinguishing  
Collect contaminated water / firefighting water separately.

### **SECTION 6: Accidental release measures**

#### **6.1. Personal precautions, protective equipment and emergency procedures**

##### **General advice**

The following information is required only in case of exposure to interior battery components after damage of the external battery casing.  
Undamaged, closed batteries do not represent a danger to the health.

Use personal protective clothing.  
Avoid contact with skin, eyes and clothing.  
Avoid breathing fume and gas.  
Keep away noninvolved persons.  
Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

#### **6.2. Environmental precautions**

Do not discharge into the drains/surface waters/groundwater.

#### **6.3. Methods and material for containment and cleaning up**

##### **Other information**

Take up mechanically and send for disposal.  
Waste disposal according to local regulations.

#### **6.4. Reference to other sections**

Informations for safe handling look up chapter 7.  
Information for personal protective equipment look up section 8.  
Informations for disposal look up chapter 13.

### **SECTION 7: Handling and storage**

#### **7.1. Precautions for safe handling**

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#### Advice on safe handling

- Follow the directions.
- Avoid short circuiting the battery. Avoid mechanical damage of the battery. Do not open or disassemble.
- Do not throw into fire.
- Handle in accordance with good industrial hygiene and safety practice.
- At work do not eat, drink and smoke.
- Wash hands and skin before breaks and after work.

#### Advice on protection against fire and explosion

- Keep away from open flames, hot surfaces and sources of ignition.

#### Advice on general occupational hygiene

- Handle in accordance with good industrial hygiene and safety practice.
- When using do not eat, drink or smoke.
- Wash hands and skin before breaks and after work.

#### 7.2. Conditions for safe storage, including any incompatibilities

##### Requirements for storage rooms and vessels

- Store only in original container at cool and aired place.
- Protect from moisture.
- Recommended storage temperature: - 5 °C - 25°C

##### Further information on storage conditions

- Protect from heat and direct solar radiation.

#### 7.3. Specific end use(s)

- Lithium-Ion battery > 100 Wh
- Note: This product is an "article".

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Occupational exposure limits

| CAS No    | Substance  | ppm | mg/m <sup>3</sup> | fib/cm <sup>3</sup> | Category  | Origin |
|-----------|--|-----|-------------------|---------------------|-----------|--------|
| 7782-42-5 | Graphite (all forms except fibres) (Respirable Fraction) | -   | 2                 |                     | TWA (8 h) |        |

##### Additional advice on limit values

- During normal charging and discharging there is no release of product.
- No hazards in case of an intact battery and observation of the instructions for use.

#### 8.2. Exposure controls

##### Appropriate engineering controls

- Ensure adequate ventilation.
- Provide eye bath.
- Provide emergency shower.

##### Individual protection measures, such as personal protective equipment

##### Eye/face protection

- No special measures necessary if used correctly.
- In case of electrolyte leakage: Safety goggles with side protection, Face shield

##### Hand protection

- No special measures necessary if used correctly.
- In case of electrolyte leakage: Wear suitable gloves

##### Skin protection

- No special measures necessary if used correctly.
- In case of electrolyte leakage: Protective suit. Chemical resistant apron (EN 467). Boots

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#### Respiratory protection

No special measures necessary if used correctly.

If the occupational exposure limit is exceeded, suitable respiratory protection must be worn.

In case of electrolyte leakage: Wear respiratory protection.

#### Environmental exposure controls

No special measures necessary if used correctly.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                 |                |
|-----------------|----------------|
| Physical state: | Solid, Battery |
| Colour:         | Black, White   |
| Odour:          | Odourless      |

#### Changes in the physical state

|   |      |
|---|------|
| Melting point/freezing point:                             | n.a. |
| Boiling point or initial boiling point and boiling range: | n.a. |
| Sublimation point:  | n.a. |
| Softening point:  | n.a. |
| Flash point:  | n.a. |

#### Flammability

|                            |      |
|----------------------------|------|
| Solid/liquid:              | n.a. |
| Lower explosion limits:    | n.a. |
| Upper explosion limits:    | n.a. |
| Auto-ignition temperature: | n.a. |

#### Self-ignition temperature

|                        |           |
|------------------------|-----------|
| Solid:                 | n.a.      |
| Gas:                   | n.a.      |
| pH-Value:              | n.a.      |
| Viscosity / dynamic:   | n.a.      |
| Viscosity / kinematic: | n.a.      |
| Flow time:             | n.a.      |
| Water solubility:      | Insoluble |

#### Solubility in other solvents

|  |      |
|--|------|
| n.a.                                   |      |
| Partition coefficient n-octanol/water: | n.a. |
| Vapour pressure:                       | n.a. |
| Density:                               | n.a. |
| Bulk density:                          | n.a. |
| Relative vapour density:               | n.a. |

### 9.2. Other information

#### Information with regard to physical hazard classes

Oxidizing properties  
Not oxidising.

#### Other safety characteristics

|                          |     |
|--------------------------|-----|
| Solvent separation test: | 0 % |
|--------------------------|-----|

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Solvent content: 0 %

Evaporation rate: n.a.

#### Further Information

0,06 kWh / 8 kWh

0,04 kWh / 0,6 kWh

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No uncommon reactivity known

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

### 10.4. Conditions to avoid

Short circuit

Overcharge

Incompatible materials

heat, sparks, open flames, hot surfaces

Avoid shock and impact.

Avoid high temperatures (80°C)

Protect against direct sun radiation.

Protect from atmospheric moisture and water.

### 10.5. Incompatible materials

Marine water, Water, strong oxidizing agents, Strong acid.

### 10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

Heat development under short-circuit conditions.

Fire may produce: Toxic gases/vapours, Metallic oxides, Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>).

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Toxicokinetics, metabolism and distribution

No hazards in case of an intact battery and observation of the instructions for use.

Undamaged, closed batteries do not represent a danger to the health.

#### Acute toxicity

Based on available data, the classification criteria are not met.

There is no hazard when the measures for handling and storage are followed.

#### ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

#### Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

#### Sensitising effects

Based on available data, the classification criteria are not met.

#### Carcinogenic/mutagenic/toxic effects for reproduction

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Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

#### STOT-single exposure

Based on available data, the classification criteria are not met.

#### STOT-repeated exposure

Based on available data, the classification criteria are not met.

#### Aspiration hazard

Based on available data, the classification criteria are not met.

### 11.2. Information on other hazards

#### Endocrine disrupting properties

No information available.

#### Other information

If appropriately handled and if in accordance with the general hygienic rules, no damages to health have become known.

## SECTION 12: Ecological information

### 12.1. Toxicity

There is no hazard when the measures for handling and storage are followed.

### 12.2. Persistence and degradability

No data available

### 12.3. Bioaccumulative potential

No data available

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

No data available

### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

### 12.7. Other adverse effects

The following information is required only in case of exposure to interior battery components after damage of the external battery casing.

Harmful to the environment

Should not be released into the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal recommendations

Waste disposal according to local regulations.

Do not incinerate.

#### List of Wastes Code - residues/unused products

160605 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; wastes from the manufacture, supply and use of batteries; other batteries and accumulators

## SECTION 14: Transport information

### Land transport (ADR/RID)

#### 14.1. UN number or ID number:

UN 3480

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|   |                                 |
|---|---------------------------------|
| <b><u>14.2. UN proper shipping name:</u></b>    | LITHIUM ION BATTERIES           |
| <b><u>14.3. Transport hazard class(es):</u></b> | 9                               |
| <b><u>14.4. Packing group:</u></b>              | -                               |
| Classification code:                            | M4                              |
| Special Provisions:                             | 188 230 310 348 376 377 387 636 |
| Limited quantity:                               | 0                               |
| Excepted quantity:                              | E0                              |
| Transport category:                             | 2                               |
| Tunnel restriction code:                        | E                               |

#### Inland waterways transport (ADN)

|   |                                 |
|---|---------------------------------|
| <b><u>14.1. UN number or ID number:</u></b>     | UN 3480                         |
| <b><u>14.2. UN proper shipping name:</u></b>    | LITHIUM ION BATTERIES           |
| <b><u>14.3. Transport hazard class(es):</u></b> | 9                               |
| <b><u>14.4. Packing group:</u></b>              | -                               |
| Classification code:                            | M4                              |
| Special Provisions:                             | 188 230 310 348 376 377 387 636 |
| Limited quantity:                               | 0                               |
| Excepted quantity:                              | E0                              |

#### Marine transport (IMDG)

|   |  |
|---|--|
| <b><u>14.1. UN number or ID number:</u></b>     | UN 3480                                |
| <b><u>14.2. UN proper shipping name:</u></b>    | LITHIUM ION BATTERIES                  |
| <b><u>14.3. Transport hazard class(es):</u></b> | 9                                      |
| <b><u>14.4. Packing group:</u></b>              | -                                      |
| Special Provisions:                             | 188, 230, 310, 348, 376, 377, 384, 387 |
| Limited quantity:                               | 0                                      |
| Excepted quantity:                              | E0                                     |
| EmS:  | F-A, S-I                               |

#### Air transport (ICAO-TI/IATA-DGR)

|   |  |
|---|--|
| <b><u>14.1. UN number or ID number:</u></b>     | UN 3480                                  |
| <b><u>14.2. UN proper shipping name:</u></b>    | LITHIUM ION BATTERIES                    |
| <b><u>14.3. Transport hazard class(es):</u></b> | 9  |
| <b><u>14.4. Packing group:</u></b>              | -  |
| Special Provisions:                             | A88 A99 A154 A164 A183 A201 A206 A213 A3 |
| Limited quantity Passenger:                     | Forbidden                                |
| Passenger LQ:                                   | Forbidden                                |
| Excepted quantity:                              | E0                                       |
| IATA-packing instructions - Passenger:          | Forbidden                                |
| IATA-max. quantity - Passenger:                 | Forbidden                                |
| IATA-packing instructions - Cargo:              | See 965                                  |
| IATA-max. quantity - Cargo:                     | See 965                                  |

#### **14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

#### **14.6. Special precautions for user**

To avoid risks to human health and the environment, comply with the instructions for use.

#### **14.7. Maritime transport in bulk according to IMO instruments**

The transport takes place only in approved and appropriate packaging.

### SECTION 15: Regulatory information

#### **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

EU regulatory information

Additional information

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No information available.

#### National regulatory information

#### Additional information

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#### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

### SECTION 16: Other information

#### Changes

Changes in chapter: 1.1

#### Abbreviations and acronyms

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route  
 RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses  
 ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure  
 IMDG = International Maritime Code for Dangerous Goods  
 IATA/ICAO = International Air Transport Association / International Civil Aviation Organization  
 MARPOL = International Convention for the Prevention of Pollution from Ships  
 IBC-Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk

GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 REACH = Registration, Evaluation, Authorization and Restriction of Chemicals  
 CAS = Chemical Abstract Service  
 EN = European norm  
 ISO = International Organization for Standardization  
 DIN = Deutsche Industrie Norm  
 PBT = Persistent Bioaccumulative and Toxic  
 vPvB = Very Persistent and very Bio-accumulative

LD = Lethal dose  
 LC = Lethal concentration  
 EC = Effect concentration  
 IC = Median immobilisation concentration or median inhibitory concentration

#### Relevant H and EUH statements (number and full text)

EUH210 Safety data sheet available on request.

#### Further Information

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities. The information describes exclusively the safety requirements for the product (s) and is based on the present level of our knowledge. This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations. "(n.a. = not applicable; n.d. = not determined)"

*(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*