

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

Revision date: 15.01.2024

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

Further trade names

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

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 > 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 UK Ltd
	Gottlieb Stoll House
Street:	1 Anglo Saxon Way
Place:	GB Rougham, Bury St Edmunds, IP30 9XH
Telephone:	+44 (0) 1284 760791
E-mail:	info-uk@festool.com
Responsible Department:	Responsible for the safety data sheet: sds@gbk-ingelheim.de
	In England and Wales: NHS 111 In Scotland: NHS 24 - dial 111

1.4. Emergency telephone number:

Further Information

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.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

This mixture is not classified as hazardous in accordance with GB CLP Regulation.

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

GB CLP Regulation

Special labelling of certain mixtures

EUH210 Safety data sheet available on request.

Additional advice on labelling

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

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2.3. Other hazards

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 UK REACH Regulation)

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

Wash off immediately with plenty of water and soap for at least 30 minutes.

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:

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Causes severe irritation of eyes, skin and mucous membranes.

May cause respiratory irritation.

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 (CO₂), 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.

The batteries are not flammable but internal organic material will burn if the batteries are 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/ground water.

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

Information for safe handling look up section 7.

Information for personal protective equipment look up section 8.

Information for disposal see section 13.

SECTION 7: Handling and storage

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7.1. Precautions for safe handling

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 expose cell to temperature outside the range of 40°C to 80°C.

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

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.

Respiratory protection

No special measures necessary if used correctly.

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

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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 %
Solvent content:	0 %
Evaporation rate:	n.a.

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0,06 kAh / 8 kWh
0,04 kAh / 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.
Disassembling or installation with incorrect polarity

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 (CO₂).

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

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

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

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.

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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 UK REACH.

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; batteries and accumulators; other batteries and accumulators

SECTION 14: Transport information**Land transport (ADR/RID)****14.1. UN number or ID number:**

UN 3480

14.2. UN proper shipping name:

LITHIUM ION BATTERIES

14.3. Transport hazard class(es):

9

14.4. Packing group:

-

Classification code:

M4

Special Provisions:

188 230 310 348 376 377 387 636

Limited quantity:

0

Excepted quantity:

E0

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Transport category: 2
Tunnel restriction code: E

Other applicable information (land transport)

Each cell or battery is of the type proven to meet the requirements of each test in the UN Manual of Tests and Criteria Part III subsection 38.3. And they are out of scope for Special Provision A154 and comply with Special Provision A164.

Inland waterways transport (ADN)

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

Other applicable information (inland waterways transport)

Each cell or battery is of the type proven to meet the requirements of each test in the UN Manual of Tests and Criteria Part III subsection 38.3. And they are out of scope for Special Provision A154 and comply with Special Provision A164.

Marine transport (IMDG)

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

Other applicable information (marine transport)

Each cell or battery is of the type proven to meet the requirements of each test in the UN Manual of Tests and Criteria Part III subsection 38.3. And they are out of scope for Special Provision A154 and comply with Special Provision A164.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 3480
14.2. UN proper shipping name: LITHIUM ION BATTERIES
14.3. Transport hazard class(es): 9
14.4. Packing group: -
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.

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SECTION 15: Regulatory information

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

EU regulatory information

Additional information

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 section: 3

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

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determined)

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