

Print date: 06.02.2026
Revision date: 30.01.2026
Version: 01

1. Product and Company Identification

1.1. Product identifier

Rechargeable Li-Ion Battery
P/N: 13113200
BP IFR26650-4000 LiFePO4 3,2V 4000mAh

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

Rechargeable Li-Ion Battery

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

Supplier:

Die Batterieprofis GmbH
Adam-Ries-Straße 6 D-09117 Chemnitz

Fon: +49 (0) 371 90963 0
Fax: +49 (0) 371 90963 29
Email: info@batterieprofis.de

Informing department:

ASS Magerl GmbH
Otto-Schmerbach-Str. 17 D-09117 Chemnitz

Fon: 0049 / 371 - 774 10 60
Email: mail@ass-magerl.de

1.4 EMERGENCY TELEPHONE NUMBER:

Swiss Toxicological Information Center- 24 h Service Tel.: 0041 / 44 251 51 51 (international)

2. Hazards identification

2.1. Classification of the substance or mixture:

In accordance with Article 3(3) of Regulation (EC) No 1907/2006 (REACH), this product is an article.

Under normal conditions of use, the battery does not meet the criteria for classification as hazardous according to Regulation (EC) No 1272/2008 (CLP) and is therefore not classified according to the Globally Harmonized System (GHS).

2.2. Label elements

GHS label elements:	Not applicable
Hazard pictograms:	Not applicable
Signal word:	Not applicable
Hazard statements:	Not applicable

Print date: 06.02.2026
 Revision date: 30.01.2026
 Version: 01

2.3. Other hazards

The battery contains chemical substances which are enclosed in a hermetically sealed metal casing, designed to withstand temperatures and pressures encountered during normal use.

Under normal conditions of use, there is no risk of ignition, explosion or release of hazardous substances.

Hazards may occur in case of battery damage, short circuit, misuse, overheating or exposure to fire. In such cases, the battery may vent gases, rupture or release flammable electrolyte and other hazardous decomposition products.

If the battery is exposed to a surrounding fire, irritating or harmful gases may be emitted.

Results of PBT and vPvB assessment:

PBT: Not applicable

vPvB: Not applicable

3. Composition/ Information on Ingredient

3.1 . Substances

Chemical characterization: Mixtures

Dangerous components:		
CAS: 15365-14-7 EINECS: 476-700-9	Ferrous phosphate lithium	29.0 % Weight
CAS: 7439-89-6 EINECS: 231-096-4	Iron	23.2 % Weight
CAS: 7782-42-5 EINECS: 231-955-3	Graphite	15.9 % Weight
CAS: 21324-40-3 EINECS: 244-334-7	Phosphate(1-), hexafluoro-, lithium H302 H315 H319 H335	10.2 % Weight
CAS: 24937-79-9 EINECS: 607-458-6	Polyvinylidene fluoride resin	7.4 % Weight
CAS: 7440-50-8 EINECS: 231-159-6	Copper	6.9 % Weight
CAS: 7429-90-5 EINECS: 231-072-3	Aluminium	3.6 % Weight
CAS: 9000-11-7 EINECS: 618-326-2	Cellulose, carboxymethyl ether	2.6 % Weight
CAS: 1333-86-4 EINECS: 215-609-6	Carbon black	0.7 % Weight
CAS: 9003-55-8 EINECS: 618-370-2	Styrene-butadiene rubber (SBR 1500)	0.5 % Weight

Print date: 06.02.2026
Revision date: 30.01.2026
Version: 01

4. First-aid measures

4.1 Description of first aid measures

General information

This product is a battery. Under normal conditions of use, exposure to the chemical substances contained within the battery is not expected. If the battery is damaged and leakage occurs, avoid direct contact with the leaked substances and apply the following first-aid measures.

After inhalation

Remove the affected person to fresh air immediately. Keep the person at rest and comfortable for breathing. If respiratory irritation, coughing or discomfort persists, seek medical advice.

After skin contact

Remove contaminated clothing and shoes. Wash the affected skin area thoroughly with plenty of water and soap. If skin irritation occurs or persists, seek medical advice.

After eye contact

Rinse cautiously with clean water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing and seek medical advice if irritation persists.

After swallowing

Rinse mouth thoroughly with water. Do not induce vomiting. Seek immediate medical advice.

4.2 Most important symptoms and effects, both acute and delayed

- Skin irritation
- Eye irritation
- Respiratory tract irritation
- Harmful effects if swallowed

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
No specific antidote known.

5. Fire-fighting Measures

5.1 Extinguishing media

Suitable extinguishing media

Use suitable extinguishing media for the surrounding fire, such as:

- Water spray (cooling)
- Carbon dioxide (CO₂)
- Dry chemical powder
- Foam

Print date: 06.02.2026
Revision date: 30.01.2026
Version: 01

Water spray should be used primarily to cool batteries and prevent thermal runaway.

Unsuitable extinguishing media

Do not use water with a full water jet directly on the battery.

5.2 Special hazards arising from the substance or mixture

The product is a lithium-ion battery.

In case of fire, overheating or thermal runaway, the battery may:

- Vent gases
- Rupture or explode
- Release hazardous substances

Hazardous decomposition products may include:

- Toxic and irritating gases
- Flammable vapours
- Corrosive gases (e.g. fluorine-containing compounds)

Heating may cause internal pressure build-up, leading to violent rupture of the battery casing.

5.3 Advice for fire-fighters

Fire-fighters should wear:

- Self-contained breathing apparatus (SCBA)
- Full protective clothing

Fight fire from a safe distance or protected location where possible.

Cool batteries exposed to fire with water spray to reduce the risk of rupture and thermal runaway. Prevent contaminated fire-fighting water from entering drains, surface water or soil.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with leaking substances from damaged batteries.

Wear appropriate personal protective equipment, including:

- Protective gloves
- Protective clothing
- Eye protection
- Respiratory protection if ventilation is insufficient

Keep unprotected persons away from the affected area. Ensure adequate ventilation.

6.2 Environmental precautions

Do not allow leaked substances to enter drains, surface water or soil. Prevent environmental contamination.

Print date: 06.02.2026
Revision date: 30.01.2026
Version: 01

6.3 Methods and material for containment and cleaning up

If electrolyte leakage occurs:

- Absorb leaked liquid with non-combustible, absorbent material (e.g. sand, earth, vermiculite).
- Collect mechanically and place in suitable, sealed containers for disposal according to regulations.

Handle damaged batteries with care and store them in a safe, non-flammable area.

6.4 Reference to other sections

For information on safe handling, see Section 7.
For information on personal protective equipment, see Section 8.
For information on disposal considerations, see Section 13.

7. Handling and Storage

7.1. Precautions for safe handling

Handle the battery in accordance with good industrial hygiene and safety practices.

Avoid:

- Mechanical damage (crushing, puncturing, dropping)
- Short-circuiting the battery terminals
- Overcharging or deep discharging
- Exposure to heat, open flames or direct sunlight
- Contact with water or moisture

Do not disassemble, modify or deform the battery. Use only chargers and equipment approved for this battery type. Under normal conditions of use, no special handling measures are required.

7.2 Conditions for safe storage, including any incompatibilities

Store batteries in a cool, dry and well-ventilated place.

Recommended storage conditions:

- Temperature: -20 °C to 35 °C
- Keep away from heat sources, open flames and direct sunlight
- Protect from moisture and water

Do not store together with:

- Strong oxidizing agents
- Strong acids
- Conductive materials

Prevent short circuits during storage by protecting battery terminals.

7.3 Specific end uses

Print date: 06.02.2026
Revision date: 30.01.2026
Version: 01

No specific end uses other than those specified by the manufacturer.

8. Exposure Controls and Personal Protection

8.1. Control parameters

Components with occupational exposure limits

No occupational exposure limit values are established for this product under normal conditions of use.

Additional information

The battery is a sealed product. Exposure to the chemical substances contained within the battery is not expected during normal handling and use.

8.2. Exposure controls

Appropriate engineering controls

No special engineering controls are required under normal conditions of use.

Ensure adequate ventilation if the battery is damaged and substances are released.

Personal protective equipment General protective and hygienic measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands after handling damaged batteries. Avoid contact with leaked substances.

Respiratory protection

Not required under normal conditions of use. In case of battery damage, leakage or insufficient ventilation, use appropriate respiratory protection.

Hand protection

Not required under normal conditions of use. When handling damaged or leaking batteries, wear protective gloves resistant to chemicals.

Eye protection

Not required under normal conditions of use. In case of battery damage or risk of splashing, wear safety glasses with side shields.

Body protection

Not required under normal conditions of use. Wear protective clothing when handling damaged batteries.

Print date: 06.02.2026
Revision date: 30.01.2026
Version: 01

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

General information

Product form:	Battery (solid article)
Appearance:	Cylindrical lithium-ion battery
Colour:	Metallic / as specified by manufacturer
Odour:	Odourless
Odour threshold:	Not applicable

Important health, safety and environmental information

pH value:	Not applicable
Melting point / freezing point:	Not applicable
Initial boiling point and boiling range:	Not applicable
Flash point:	Not applicable
Evaporation rate:	Not applicable
Flammability (solid, gas):	Not applicable
Lower explosion limit:	Not applicable
Upper explosion limit:	Not applicable
Vapour pressure:	Not applicable
Vapour density:	Not applicable
Relative density:	Not applicable
Solubility in water:	Not soluble
Partition coefficient (n-octanol/water):	Not applicable
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
Viscosity:	Not applicable

9.2 Other information

No further relevant information available.

10. Stability and Reactivity

10.1. Reactivity

No hazardous reactions are expected under normal conditions of use.

10.2. Chemical stability

The product is stable under normal conditions of storage and use.

10.3. Possibility of hazardous reactions

No hazardous reactions are known under normal conditions of use.
Hazardous reactions may occur if the battery is damaged, improperly handled, overheated or exposed to fire.

10.4. Conditions to avoid:

Avoid:

Print date: 06.02.2026
Revision date: 30.01.2026
Version: 01

- Mechanical damage
- Short circuit
- Overheating
- Exposure to open flames or fire
- Contact with water or moisture

10.5. Incompatible materials:

Strong oxidizing agents, Strong acids, Conductive materials, Water and moisture

10.6. Hazardous decomposition products:

In case of fire or overheating, hazardous decomposition products may be released, including toxic and irritating gases.

11. Toxicological Information

11.1. Information on toxicological effects

Information on likely routes of exposure

Exposure is not expected under normal conditions of use, as the battery is a sealed article. Exposure may occur in case of battery damage, leakage, overheating or fire.

Acute toxicity

- Harmful if swallowed (see Section 2).

Skin corrosion / irritation

Contact with leaked substances may cause skin irritation.

Serious eye damage / eye irritation

Contact with leaked substances may cause serious eye irritation.

Respiratory or skin sensitisation

No sensitising effects are known based on available information.

Specific target organ toxicity (single exposure)

May cause respiratory tract irritation if vapours or gases released from a damaged battery are inhaled.

Specific target organ toxicity (repeated exposure)

No data available.

Carcinogenicity

No data available.

Germ cell mutagenicity

No data available.

Reproductive toxicity

No data available.

Aspiration hazard

Not applicable.

Print date: 06.02.2026
Revision date: 30.01.2026
Version: 01

Additional information

When handled and used according to instructions, the product does not pose a toxicological hazard based on current knowledge.

12. Ecological Information

12.1 Toxicity

No data available.

Under normal conditions of use, the battery does not pose an environmental hazard, as the chemical substances are contained within the sealed battery.

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

- PBT: Not applicable
- vPvB: Not applicable

12.6 Other adverse effects

No further relevant information available.

Avoid release of damaged batteries into the environment.

Do not allow battery contents to enter soil, surface water or drains.

13. Disposal Considerations

13.1 Waste treatment methods

Waste batteries must be disposed of in accordance with applicable local, regional and national regulations. Do not dispose of batteries with household waste. Damaged or defective batteries should be handled as hazardous waste and collected separately.

Product / battery

Dispose of used or damaged batteries through approved battery recycling programs or return them to the supplier.

Packaging

Dispose of packaging materials in accordance with local waste disposal regulations.

Additional information

Do not incinerate batteries.

Do not dispose of batteries into water, soil or drains.

Print date: 06.02.2026
Revision date: 30.01.2026
Version: 01

14. Transport Information

ADR

UN-Number: 3480
description: Lithium ion batteries
class: 9
packaging order: P903
special provision: 188; 230; 310; 348; 636
tunnel forbidden code: E

UN-Number: 3481
description: Lithium ion batteries contained in equipment / packed with equipment
class: 9
packaging order: P903
special provision: 188; 230; 310; 348; 390; 670
tunnel forbidden code: E

IATA

UN-Number: 3480
description: Lithium ion batteries
class: 9
packaging order: 965
section: IB, IA
special provision: A88; A154; A164; A201; A206; A331; A334

UN-Number: 3481
description: Lithium ion batteries contained in equipment / packed with equipment
class: 9
packaging order: 967
section: II, I
special provision: A48; A88; A154; A164; A181; A185; A206; A220

IMDG-Code

UN-Number: 3480
description: Lithium ion batteries
class: 9
packaging order: P903
special provision: 188; 230; 310; 348

UN-Number: 3481
description: Lithium ion batteries contained in equipment / packed with equipment
class: 9
packaging order: P903
special provision: 188; 230; 310; 348; 390

15. Regulatory Information

Print date: 06.02.2026
Revision date: 30.01.2026
Version: 01

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

This product is a lithium-ion battery (article).

The following regulations are applicable:

- Regulation (EC) No 1907/2006 (REACH)
- Regulation (EC) No 1272/2008 (CLP)
- Directive 2006/66/EC on batteries and accumulators and waste batteries and accumulators
- ADR, RID, IMDG Code, IATA/ICAO regulations for the transport of dangerous goods

Substances of Very High Concern (SVHC) according to REACH, Article 57

No SVHC substances are present above the legal reporting thresholds, based on available information.

Chemical safety assessment

A chemical safety assessment is not required for this product.

Other regulatory information

This product has been tested according to UN Manual of Tests and Criteria, Part III, subsection 38.3 and meets the requirements for the transport of lithium-ion batteries.

16. Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms

ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road

RID – Regulations concerning the International Carriage of Dangerous Goods by Rail

IMDG – International Maritime Dangerous Goods Code

IATA – International Air Transport Association

ICAO – International Civil Aviation Organization

GHS – Globally Harmonized System

CAS – Chemical Abstracts Service

EC – European Community

PBT – Persistent, Bioaccumulative and Toxic

vPvB – very Persistent and very Bioaccumulative

16.2 Relevant R-, H- and EUH-phrases (number and full text)

H302 Harmful if swallowed

H315 Causes skin irritation

H319 Causes serious eye irritation

H335 May cause respiratory irritation