



Safety Data Sheet

according to Regulation (EC) No 1907/2006

RP-Technik GmbH

LFP3215.KMILK

Revision date: 22.09.2026

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

LFP3215.KMILK

Product type

Rechargeable lithium iron phosphate battery (LiFePO₄); 3.2 V; 1500 mAh; 4.8 Wh

1.2. Relevant identified uses and uses advised against

Battery for emergency and safety lighting. Use only with compatible equipment and the specified charging system. Do not open or misuse the battery.

1.3. Details of the supplier of the safety data sheet

RP-Technik GmbH

Hermann-Staudinger-Str. 10-16, D-63110 Rodgau, Germany

Telephone: +49 (6106) 660 28 - 0; Fax: +49 (6106) 660 28 - 40

E-mail: info@rp-group.com

Contact: Francisco Goerke; product@rp-group.com

1.4. Emergency telephone number

For urgent medical assistance, contact the local emergency services or poison information centre. RP product information: +49 (6106) 660 28 - 0; 24-hour emergency availability is not confirmed.

SECTION 2: Hazards identification

2.1. Classification and hazard information

The intact sealed battery is an article. The following chemical hazards concern exposed internal contents rather than normal contact with the sealed battery.

No exposure to internal materials is expected during normal use of an intact sealed battery. If the casing ruptures, electrolyte may cause skin and eye irritation or burns, respiratory irritation and injury if swallowed. Misuse, fire, mechanical damage and short circuit may cause leakage, ignition or rupture.

2.2. Label elements

No chemical hazard label is assigned here to the intact battery. Observe battery product markings and the transport requirements in Section 14.

2.3. Other hazards

Stored electrical energy can cause short-circuit heating and burns. Do not open or damage cells. PBT/vPvB and endocrine-disrupting property assessments: no data available.



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SECTION 3: Composition/information on ingredients

3.1 / 3.2. Chemical characterisation

Sealed article containing the following materials. Internal contents are not accessible during normal use.

CAS No.	Component	Content, %
15365-14-7	Lithium iron phosphate	30
9000-11-7	Sodium carboxymethyl cellulose	0.25
9003-55-8	Styrene-butadiene rubber	0.45
Not established	Carbon / graphitic material	15.5
9003-07-0	Polypropylene	6
21324-40-3	Lithium hexafluorophosphate	1.7
616-38-6	Dimethyl carbonate	3.4
623-53-0	Ethyl methyl carbonate	6.5
96-49-1	Ethylene carbonate	2.7
7440-50-8	Copper	10.0
7429-90-5	Aluminium	4.4
7439-89-6	Iron	19.1

Percentages are by mass. The exact CAS identity of the carbon / graphitic fraction is not established.

Specific concentration limits, M-factors and product ATE values: no data available.

SECTION 4: First aid measures

4.1. Description of first aid measures

The following measures apply to exposure to released battery contents. Seek medical advice if symptoms occur or exposure is suspected.

After inhalation

Move to fresh air. Obtain medical attention. Oxygen or assisted breathing must be provided by appropriately trained personnel when required.

After skin contact

Remove contaminated clothing. Wash with soap and plenty of water for at least 15 minutes. Obtain medical attention.

After eye contact

Immediately rinse with plenty of water. Remove contact lenses if present and easy to do; continue rinsing. Do not rub the eyes. Obtain medical attention.

After ingestion

Seek medical attention immediately. Do not induce vomiting. Never give anything by mouth to an unconscious person.

4.2. Most important symptoms and effects

Irritation or burns to eyes and skin; respiratory irritation following exposure to released contents. Ingestion can be harmful.

4.3. Immediate medical attention and special treatment

Medical assessment is required after significant exposure or swallowing. No specific antidote information is available.



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SECTION 5: Firefighting measures

5.1. Extinguishing media

Carbon dioxide, dry chemical or foam. Select extinguishing measures suitable for the surrounding fire.

5.2. Special hazards

Overheated batteries can release combustible electrolyte vapours. Irritating gases may be emitted in a fire.

5.3. Advice for firefighters

Use self-contained breathing apparatus and suitable protective clothing. Fight from a safe distance and protected position. Move batteries away only if safe. Prevent contaminated firefighting water from entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions and emergency procedures

Avoid contact with leaked material and inhalation of vapours or dust. Keep unprotected persons away. Refer to Section 8 for protective equipment.

6.2. Environmental precautions

Prevent release into soil, drains, sewers and waterways.

6.3. Containment and cleaning up

Ventilate the area, keep unprotected persons away and stay upwind. Avoid contact with leaked material. Prevent further leakage if safe. Collect spilled material in suitable labelled containers. Prevent entry into soil, drains and waterways.

6.4. Reference to other sections

See Sections 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Read the product instructions. Do not crush, puncture, short circuit, heat directly, solder directly to cells or dispose of in fire. Do not mix different battery types or new and used batteries. Use non-conductive trays.

7.2. Conditions for safe storage

Store in a cool, ventilated area away from heat, open flames, corrosive chemicals, food and drink. Keep in original packaging until use, with terminals protected against short circuit. Keep out of reach of children.

7.3. Specific end use

Emergency and safety lighting battery. Follow the product operating instructions. Numerical operating and storage temperature limits are not established in this document.



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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No battery-specific occupational exposure limit is established. Exposure to internal components is not expected with intact batteries. If contents are released, assess applicable workplace limits for the substances listed in Section 3.

8.2. Exposure controls

No special personal protective equipment is normally required for intact batteries. For leaking or ruptured batteries, use safety goggles, suitable chemical-resistant gloves, protective clothing and an apron. For hazardous airborne exposure, use self-contained breathing apparatus operated by trained personnel.

Engineering and hygiene measures

Use appropriate ventilation for handling damaged batteries. Avoid eating, drinking or smoking during cleanup; wash hands after handling released material. Remove and clean contaminated clothing before reuse.

Environmental exposure controls

Prevent release of battery contents and contaminated cleanup water to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Solid, sealed battery. Colour not specified consistently. Odourless during normal use.

Water solubility

Immiscible in water.

Other physical and chemical parameters

Melting/freezing point, boiling point, flash point, flammability limits, auto-ignition and decomposition temperatures, pH, viscosity, vapour pressure, density, partition coefficient and particle characteristics: no product-specific data available.

9.2. Other information

Electrical rating: 3.2 V; 1500 mAh; 4.8 Wh

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction expected during normal handling of an intact battery. Detailed reactivity data are not available.

10.2. Chemical stability

Stable under normal recommended conditions of storage and use.

10.3. Possibility of hazardous reactions

Heat, abuse or damage may cause rupture, leakage or ignition.

10.4. Conditions to avoid

Prolonged exposure of internal components to air or moisture; heat, fire, mechanical damage and short circuit.

10.5. Incompatible materials

Acids, bases and oxidising agents.

10.6. Hazardous decomposition products

Overheated batteries can release combustible electrolyte vapours. Irritating gases may be emitted in a fire.



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SECTION 11: Toxicological information

11.1. Information on hazard classes

Contact with released materials may irritate or burn skin, eyes and the respiratory tract. Ingestion may damage the throat. Product-specific acute and chronic toxicity, sensitisation, mutagenicity, carcinogenicity and reproductive toxicity data are not available.

Additional toxicological endpoints

Product-specific numerical LD50/LC50 values, ATE values, reproductive toxicity and aspiration-hazard data are not available. Lack of data is not evidence of absence of a hazard.

11.2. Information on other hazards

Endocrine-disrupting properties and other product-specific toxicological effects: no data available.

SECTION 12: Ecological information

12.1. Toxicity

No product-specific quantitative ecotoxicity data available. Avoid release of internal materials to the environment.

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

No assessment data available.

12.6. Endocrine-disrupting properties

No data available.

12.7. Other adverse effects

Intact sealed batteries do not release their contents during normal use. Damaged batteries and residues require controlled collection and disposal.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Insulate battery terminals before collection. Use authorised battery collection / recycling routes and follow applicable local regulations. Do not incinerate batteries. Dispose of contaminated packaging in accordance with applicable regulations.

Contaminated materials

Collect contaminated absorbent and packaging separately for appropriate treatment. Do not discharge electrolyte into drains or the environment.



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SECTION 14: Transport information

14.1 / 14.2. UN number and proper shipping name

Battery shipped separately: UN 3480 - LITHIUM ION BATTERIES.

Installed in a luminaire: UN 3481 - LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT.

Packed with equipment: UN 3481 - LITHIUM ION BATTERIES PACKED WITH EQUIPMENT.

14.3. Transport hazard class

Class 9. Applicable marking and labelling depend on the transport mode and permitted exceptions.

14.4. Packing group

Not assigned.

14.5. Environmental hazards

Marine pollutant: not identified as such in the available transport information.

14.6. Special precautions for the user

Prevent short circuit and damage; secure batteries against movement. Apply the current ADR/RID, IMDG and ICAO/IATA provisions for the actual shipment. Air packing instructions: PI 965 (separate batteries), PI 966 (packed with equipment), PI 967 (contained in equipment). State-of-charge limits and passenger/cargo restrictions depend on the applicable instruction. Small-battery exceptions are conditional, not automatic. Damaged or defective batteries require separate assessment. The applicable UN 38.3 test summary must be available; this SDS is not a transport test certificate.

14.7. Maritime transport in bulk according to IMO instruments

Not intended for transport in bulk.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations

This document provides safety information for a battery article in a 16-section SDS format. REACH (EC) No 1907/2006 and CLP (EC) No 1272/2008 apply according to their scope. Battery-specific product, collection and waste obligations and applicable dangerous-goods rules must be observed. This document does not establish a blanket exemption from REACH or certify regulatory compliance.

15.2. Chemical safety assessment

No product-specific chemical safety assessment is available.

SECTION 16: Other information

Document revision

Revision 1.0; 22 September 2026. RP-Technik product identification, battery-specific safety information and transport configurations compiled in the RP-Technik format.

Abbreviations

CAS: Chemical Abstracts Service; CLP: Classification, Labelling and Packaging; REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals; ATE: acute toxicity estimate; PBT/vPvB: persistent, bioaccumulative and toxic / very persistent and very bioaccumulative; ADR/RID: road/rail dangerous-goods rules; IMDG: maritime dangerous-goods code; ICAO/IATA: air transport organisations; Wh: watt-hour.

Further information

The information describes safe handling of the identified battery and does not guarantee specific product properties. The user must assess the actual operating, storage and transport conditions. Values that are unavailable have not been replaced with assumed values.