

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 14 Jul 2025

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Version: 2



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Lithium-ion battery

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

* 1.1. Product identifier

Trade name/designation:

Lithium-ion battery

Other means of identification:

SBP2.0 Lithium-ion battery 2,0 Ah / 40 Wh,

SBP4.0 Lithium-ion battery 4,0 Ah / 80 Wh

Additional information:

Follow the instructions for use of the associated device.

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

Use of the substance/mixture:

Article (Art. 3 (3) REACH)

Relevant identified uses:

Article categories [AC]

AC 3: Electrical batteries and accumulators

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Scheppach GmbH

Günzburger Str. 69

89335 Ichenhausen

Germany

Telephone: +49 (0) 8223/4002-0

Telefax: +49 (0) 8223/4002-20

E-mail: info(at)scheppach.com

Website: www.scheppach.com

1.4. Emergency telephone number

24h: Germany:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

The mixture is classified as not hazardous according to regulation (EC) No. 1272/2008 [CLP].

Additional information:

The regulations for classification and labeling (CLP) do not apply to articles of this type

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard components for labelling:

Cobalt Lithium Mangan Nickel Oxide; lithium hexafluorophosphate(1-)

Special rules for supplemental label elements for certain mixtures:

The regulations for classification and labeling (CLP) do not apply to articles of this type

2.3. Other hazards

Adverse physicochemical effects:

Follow the instructions for use of the associated device.

Adverse human health effects and symptoms:

No information available.

Adverse environmental effects:

No information available.

Other adverse effects:

No information available.

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Description:

The regulations for classification and labeling (CLP) do not apply to articles of this type

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

Risk of exposure occurs only if the cell is mechanically, thermally or electrically abused to the point of compromising the enclosure. If this occurs, exposure to the electrolyte solution contained within can occur by Inhalation, Ingestion, Eye contact and Skin contact.

Following inhalation:

not applicable

In case of product release: : Provide fresh air.

In case of skin contact:

not applicable

In case of product release: : After contact with skin, wash immediately with plenty of water and soap.

In case of skin irritation, consult a physician.

After eye contact:

not applicable

In case of product release: : After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Following ingestion:

not applicable

In case of product release: : Rinse mouth immediately and drink plenty of water.

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

not applicable

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Excess water

Unsuitable extinguishing media:

ABC-powder, Foam, Carbon dioxide (CO₂)

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products:

In case of fire: Gases/vapours, toxic

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Move undamaged containers from immediate hazard area if it can be done safely.

Due to the fact that batteries can refire even after a long time, they are extinguishing in water basins or other suitable containers, such as emergency containers safe to store.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

In case of product release: Remove persons to safety.

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Protective equipment:

In case of product release: Wear protective gloves/protective clothing/eye protection/face protection.

6.1.2. For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8

6.2. Environmental precautions

In case of product release: Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment:

In case of product release: Collect spillage.

For cleaning up:

Water (with cleaning agent)

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

6.5. Additional information

In case of product release: Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Follow the instructions for use of the associated device.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Follow the instructions for use of the associated device.

In each case, carefully observe the warnings on batteries and the operating instructions. Use only the recommended battery types.

Lithium batteries must be stored at regular temperatures and in a dry location (max. 50°C); large temperature fluctuations are to be avoided. (For example, do not store close to heating elements, do not expose to sunshine for long periods).

When storing large quantities of lithium batteries, consult local authorities and insurers.

Storage class (TRGS 510, Germany): 11 – Combustible solids that cannot be assigned to any of the above storage classes

Further information on storage conditions:

Recommended storage temperature: 5°C - 50°C

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No data available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No data available

8.2.2. Personal protection equipment

Eye/face protection:

In case of product release:

Eye glasses with side protection EN 166

Skin protection:

In case of product release:

Tested protective gloves must be worn

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Respiratory protection:

In case of product release:
Ventilate affected area.

8.2.3. Environmental exposure controls

No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: solid

Colour: not determined

Odour: not determined

flammability: No

Safety relevant basis data

Parameter	Value	① Method ② Remark
pH	<i>not applicable</i>	
Melting point	<i>not applicable</i>	
Freezing point	<i>No data available</i>	
Initial boiling point and boiling range	<i>not applicable</i>	
Flash point	<i>not applicable</i>	
Evaporation rate	<i>No data available</i>	
Auto-ignition temperature	<i>not applicable</i>	
Upper/lower flammability or explosive limits	<i>not applicable</i>	
Vapour pressure	<i>No data available</i>	
Density	<i>not applicable</i>	
Bulk density	<i>No data available</i>	
Water solubility	<i>not applicable</i>	
Dynamic viscosity	<i>not applicable</i>	
Kinematic viscosity	<i>not applicable</i>	

particle characteristics:

No data available

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

This material is considered to be non-reactive under normal use conditions.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Humidity, Water

If an upper temperature limit of (e.g. 130°C) is exceeded, the batteries are in danger of bursting.

When storing the battery above a temperature (e.g. 60°C), the battery may age faster and may lose its function early.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

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Further information

Follow the instructions for use of the associated device.

SECTION 11: Toxicological information

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

Acute oral toxicity:

not applicable

Acute dermal toxicity:

not applicable

Acute inhalation toxicity:

not applicable

Skin corrosion/irritation:

not applicable

Serious eye damage/irritation:

not applicable

Respiratory or skin sensitisation:

not applicable

Germ cell mutagenicity:

not applicable

Carcinogenicity:

not applicable

Reproductive toxicity:

not applicable

STOT-single exposure:

not applicable

STOT-repeated exposure:

not applicable

Aspiration hazard:

not applicable

Additional information:

not applicable

11.2. Information on other hazards

No data available

SECTION 12: Ecological information

12.1. Toxicity

Assessment/classification:

not applicable

12.2. Persistence and degradability

Biodegradation:

not applicable

12.3. Bioaccumulative potential

Accumulation / Evaluation:

not applicable

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

not applicable

12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects

not applicable

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.
Delivery to an approved waste disposal company.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

20 01 33 *	batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these batteries
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*: Evidence for disposal must be provided.

Waste treatment options

Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

13.2. Additional information

Lithium batteries are marked with the symbol of the crossed-out wheeled bin.

The symbol reminds the end user that batteries in the EU are not permitted to be disposed of with household waste, but must be collected separately. Spent batteries have to be returned free of charge to collection schemes or distributors.

To prevent short circuits and associated heating, lithium batteries must not be stored or transported in bulk form and unprotected. Suitable measures against short circuits include:

- Placing the batteries in original packaging or a plastic bag
- Masking the contacts
- Embedding in dry sand

SECTION 14: Transport information

Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number		
UN 3480	UN 3480	UN 3480
14.2. UN proper shipping name		
LITHIUM ION BATTERIES	LITHIUM ION BATTERIES	LITHIUM ION BATTERIES
14.3. Transport hazard class(es)		
 9A	 9	 9
14.4. Packing group		
	-	
14.5. Environmental hazards		
No	No	No
14.6. Special precautions for user		
Special Provisions: 188 230 310 348 376 377 387 636 677 Limited quantity (LQ): 0 Excepted Quantities (EQ): E0 Classification code: M4 Tunnel restriction code: (E)	Special Provisions: 188 230 310 348 376 377 384 387 Limited quantity (LQ): 0 Excepted Quantities (EQ): E0 EmS-No.: F-A, S-I	Special Provisions: A88 A99 A154 A183 A201 A213 Excepted Quantities (EQ): E0

14.7. Maritime transport in bulk according to IMO instruments

not applicable

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Additional information:

The samples tested meet the requirements of
UN Manual of Test and Criteria, PART III, Sub-Section 38.3. Rev. 7
SP2.0 Report#: 1123080582
SP4.0 Report#: 1123080583

Please note the current transport regulations for lithium-ion batteries! Ask your dangerous goods supervisor or the transport company about packaging, labeling, shipping and transport documents.

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Other regulations (EU):

In EU countries, the national laws for implementing directive 2006/66/EC (battery guideline) apply.

15.1.2. National regulations

[DE] National regulations

Water hazard class

WGK:

keine Angabe

15.2. Chemical Safety Assessment

not applicable

SECTION 16: Other information

16.1. Indication of changes

1.1.	Product identifier
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16.2. Abbreviations and acronyms

AC	Article Category
ACGIH	American Conference of Governmental Industrial Hygienists
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DIN	German Institute for Standardization / German Industrial Standard
DNEL	derived no-effect level
EN	European Standard
ES	Exposure scenario
EWC	European Waste Catalogue
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Standards Organisation
LC ₅₀	Lethal (fatal) Concentration 50%
LD ₅₀	Lethal (fatal) Dose 50%
MAK	Maximum concentration in the workplace air (CH)
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health
NOEC	No Observed Effect Concentration
OSHA	Occupational Safety & Health Administration
PBT	persistent and bioaccumulative and toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations

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16.3. Key literature references and sources for data

No data available

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No. 1272/2008 [CLP]

The mixture is classified as not hazardous according to regulation (EC) No. 1272/2008 [CLP].

16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

No data available

16.6. Training advice

No data available

16.7. Additional information

Follow the instructions for use of the associated device.

* Data changed compared with the previous version.