

Safety Data Sheet

according to Regulation (EC) No 1907/2006

BOHLE AG

Revision date: 13.03.2019

Revision No: 1,0

Akku BL-5C

BO5164755L

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

1.1. Product identifier

Akku BL-5C

Further trade names

Part of

BO 5164755 Glass-Buddy Plus

BO 5164755A Glass-Buddy AX

BO 5164755T Glass-Buddy TG

BO 5164760 Glass-Buddy Basic

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

Use of the substance/mixture

Lithium-Ion rechargeable battery

Uses advised against

All other uses are not recommended.

1.3. Details of the supplier of the safety data sheet

Company name:	BOHLE AG	
Street:	Dieselstraße 10	
Place:	D-42781 Haan	
Telephone:	+49 2129 5568-0	Telefax: +49 2129 5568 282
e-mail:	info@bohle.de	
Contact person:	Klaus Nehren	Telephone: +49 2129 5568 276
e-mail:	MSDS@bohle.de	
Internet:	www.bohle.com	
Responsible Department:	Chemie	

1.4. Emergency telephone number: INTERNATIONAL: +49 - (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/a)

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

Additional advice on labelling

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

2.3. Other hazards

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

It may cause heat generation or electrolyte leakage if battery terminals contact with other metals. Electrolyte is flammable.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Lithium-Ion rechargeable battery



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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 product contains organic electrolyte. In case of electrolyte leakage from the battery, actions described below are required.

After inhalation

Remove person to fresh air and keep comfortable for breathing.
Refer to medical treatment.

After contact with skin

Wash off immediately with plenty of water and soap for at least 15 minutes.
Take off contaminated clothing and wash it before reuse.
Call a physician immediately.

After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
Seek medical treatment by eye specialist.

After ingestion

No information available.

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

No information available.

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

Water, Alcohol-resistant foam.

Unsuitable extinguishing media

Not known.

5.2. Special hazards arising from the substance or mixture

Fire may produce:
Smoke contains combustible, irritating/corrosive and toxic gases.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit.
Stand upwind of the fire while extinguishing

Additional information

In case of electrolyte leakage: Move battery from fire immediately.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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.



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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

In case of electrolyte leakage:

Take up with absorbent material (e.g. general-purpose binder).

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

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.

Advice on protection against fire and explosion

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

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Ensure adequate ventilation.

Batteries are sure to be packed in such a way as to prevent short circuits under conditions normally encountered in transport.

Please avoid storing the battery in the places where it is exposed to the static electricity so that no damage will be caused to the protection circuit of the battery pack.

Further information on storage conditions

The batteries will be stored at room temperature, charged to about 30 - 50 % of capacity.

Protect from heat and direct solar radiation.

Protect from moisture.

Protect from frost.

7.3. Specific end use(s)

Lithium-Ion rechargeable battery

Note: This product is an "article".

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Appropriate engineering controls

Ensure adequate ventilation.

Protective and hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

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.



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In case of electrolyte leakage: Protective suit.

Respiratory protection

No special measures necessary if used correctly.

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, prismatic or cylindrical cell
Colour:	No information available.
Odour:	Odourless
pH-Value:	n.a.

Changes in the physical state

Melting point:	n.a.
Initial boiling point and boiling range:	n.a.
Flash point:	n.a.
Sustaining combustion:	

Flammability

Solid:	n.a.
Gas:	n.a.

Explosive properties

n.a.	
Lower explosion limits:	n.a.
Upper explosion limits:	n.a.
Ignition temperature:	n.a.

Auto-ignition temperature

Solid:	n.a.
Gas:	n.a.
Decomposition temperature:	n.a.

Oxidizing properties

n.a.	
Vapour pressure:	n.a.
Density:	n.a.
Water solubility:	n.a.

Solubility in other solvents

n.a.	
Partition coefficient:	n.a.
Viscosity / dynamic:	n.a.
Viscosity / kinematic:	n.a.
Vapour density:	n.a.
Evaporation rate:	n.a.

9.2. Other information

Battery-System: Lithium-Ion (Li-ion), 3.7 V; 4.07 Wh; 1150 mAh



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SECTION 10: Stability and reactivity

10.1. Reactivity

No uncommon reactivity known.

10.2. Chemical stability

As such, battery performance will deteriorate over time even if stored for a long period of time without being used. In addition, if the various usage conditions such as charge, discharge, ambient temperature, etc. are not maintained within the specified ranges the life expectancy of the battery may be shortened or the device in which the battery is used may be damaged by electrolyte leakage.

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

Handle with care - avoid shock, friction and impact.

Avoid high temperatures

Protect against direct sun radiation.

Protect from atmospheric moisture and water.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

Fire may produce:

Smoke contains combustible, irritating/corrosive and toxic gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

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

Practical experience

Other observations

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

Ecological data are not available.

Heavy metal in battery: Mercury (Hg) and Cadmium (Cd) are neither contained nor used in the 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



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No data available

12.6. Other adverse effects

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

Should not be released into the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Waste disposal according to local regulations.

Do not incinerate.

Waste disposal number of waste from 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:

UN 3480

14.2. UN proper shipping name:

LITHIUM ION BATTERIES

14.3. Transport hazard class(es):

9

14.4. Packing group:

-

Hazard label:

9A



Classification code:

M4

Special Provisions:

188 230 310 348 376 377 636

Limited quantity:

0

Excepted quantity:

E0

Transport category:

2

Hazard No:

E

Inland waterways transport (ADN)

14.1. UN number:

UN 3480

14.2. UN proper shipping name:

Lithium-ion battery

14.3. Transport hazard class(es):

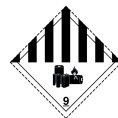
9

14.4. Packing group:

-

Hazard label:

9A



Classification code:

M4

Special Provisions:

188 230 310 348 376 377 636

Limited quantity:

0

Excepted quantity:

E0

Marine transport (IMDG)

14.1. UN number:

UN 3480

14.2. UN proper shipping name:

LITHIUM ION BATTERIES



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14.3. Transport hazard class(es):

9

14.4. Packing group:

-

Hazard label:

9A



Special Provisions:

188, 230, 310, 348, 376, 377, 384

Limited quantity:

0

Excepted quantity:

E0

EmS:

F-A, S-I

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number:

UN 3480

14.2. UN proper shipping name:

LITHIUM ION BATTERIES

14.3. Transport hazard class(es):

9

14.4. Packing group:

-

Hazard label:

9A



Special Provisions:

A88 A99 A154 A164 A183 A201 A206 A331 A8

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

No specific precautions required.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

The transport takes place only in approved and appropriate packaging.

Other applicable information

Lithium-Ion batteries offered for transport are not subject to other additional requirements of the UN Regulations if they meet the following: 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.

The present battery meets these requirements.

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

15.2. Chemical safety assessment

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



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SECTION 16: Other information

Changes

Changes in chapter: -

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

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

LD = Lethal dose

LC = Lethal concentration

EC = Effect concentration

IC = Median immobilisation concentration or median inhibitory concentration

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

