

Trade name: Lithium-ion battery in Equipment

Version: 1 / GB

Date revised: 01.07.2024

Substance number: UN3481\_IN\_EQUIPMENT

Replaces Version: - / GB

Print date: 01.07.2024

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

### **1.1. Product identifier**

Lithium-ion battery in Equipment

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

#### **Use of the substance/preparation**

Battery / Accumulator

### **1.3. Details of the supplier of the safety data sheet**

#### **Address/Manufacturer**

Albert Kerbl GmbH

Felizenzell 9

84428 Buchbach

Telephone no. +49 8086 933-100

Fax no. +49 8086 933-500

Information provided by / telephone Albert Kerbl GmbH Tel.: 0049-(0)8086-933-302

E-mail address of person responsible for this SDS sdb-team@kerbl.com

### **1.4. Emergency telephone number**

Joint poison information center for the states of Mecklenburg-Western Pomerania, Saxony, Saxony-Anhalt and Thuringia c/o HELIOS Klinikum Erfurt Nordhäuser Strasse 74

Tel.: (03 61) 73 07 30 - Fax: (03 61) 7 30 73 17

E-Mail: ggiz@ggiz-erfurt.de - Internet: www.ggiz-erfurt.de

For England (NHS 111) call: 111

For Scotland (NHS24) call: 111

For Wales (NHS Direct) call: 111

When it's less urgent than: 999

For Northern Ireland call: GP Out-of-Hours (www.gpoutofhours.hscni.net)

## **SECTION 2: Hazards identification**

### **2.1. Classification of the substance or mixture**

Supplemental information

This is a article.

### **2.2. Label elements**

#### **Labelling according to regulation (EC) No 1272/2008**

The product is an article within the meaning of Article 3 No. 3 of the REACH Regulation and thus not to be labelled according to the CLP regulation. The compilation of the Safety Data sheet is not required according to Article 31 REACH Regulation for articles and is done on a voluntary basis.

### **2.3. Other hazards**

Lithium-ion cells are sealed units that are not hazardous when used properly. There is only a risk of exposure if the battery is handled incorrectly mechanically or electrically. Eye and skin contact with the electrolyte solution should be avoided. A short-circuited lithium battery can cause thermal and chemical

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burns on contact with the skin.

## **SECTION 3: Composition/information on ingredients**

### **Other information**

The product is an article within the meaning of Article 3 No. 3 of the REACH Regulation and thus not to be labelled according to the CLP regulation. The compilation of the Safety Data sheet is not required according to Article 31 REACH Regulation for articles and is done on a voluntary basis.

## **SECTION 4: First aid measures**

### **4.1. Description of first aid measures**

#### **General information**

In the event of leaks and leaking electrolyte, the measures listed below must be carried out.

#### **After inhalation**

Ensure supply of fresh air. In the event of symptoms take medical treatment.

#### **After skin contact**

After contact with skin, wash immediately with plenty of water. Take off contaminated clothing immediately. Consult a doctor if skin irritation persists.

#### **After eye contact**

Remove contact lenses. Separate eyelids, wash the eyes thoroughly with water (15 min.). In case of irritation consult an oculist.

#### **After ingestion**

Rinse out mouth and give plenty of water to drink. Summon a doctor immediately.

#### **Adhere to personal protective measures when giving first aid**

First aider: Pay attention to self-protection!

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

On contact with the electrolyte liquid: May cause respiratory irritation. Causes eye irritation. Causes skin irritation. Irritation of the mouth and throat. May produce an allergic reaction.

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

#### **Hints for the physician / treatment**

Treat symptomatically

#### **Hints for the physician / hazards**

No further relevant information available.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Water spray jet, Dry chemical extinguisher, Metal fire extinguisher, Used from safe distance.

#### **Non suitable extinguishing media**

Full water jet

### **5.2. Special hazards arising from the substance or mixture**

In case of combustion evolution of dangerous gases possible. In the event of fire the following can be released: dense black smoke; Exposure to decomposition products may be hazardous to health. Do not breathe fumes.

### **5.3. Advice for firefighters**

#### **Special protective equipment for fire-fighting**

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In case of combustion use a suitable breathing apparatus.

**Other information**

Cool endangered containers with water spray jet. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Keep away sources of ignition. Avoid contact with skin, eyes and clothing.

**6.2. Environmental precautions**

Do not discharge into the drains/surface waters/groundwater.

**6.3. Methods and material for containment and cleaning up**

Pick up mechanically. Clean contaminated floors and objects thoroughly, observing environmental regulations.

**6.4. Reference to other sections**

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Keep away from heat, naked flames and hot surfaces. - Do not smoke! Protect from heat and direct sunlight. Effectively prevent short-circuiting of the battery terminals. Do not use unauthorised chargers or charging methods. Do not open, dismantle or drop from a great height. Do not puncture or crush. Incorrect handling can lead to an explosion or start a fire.

**Advice on protection against fire and explosion**

No special measures required.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep in original packaging, tightly closed.

**Hints on storage assembly**

Do not store together with foodstuffs.

**Storage classes**

Storage class according to TRGS 510      11      Combustible solids

**Further information on storage conditions**

Protect from heat and direct sunlight. Store in a dry place. Keep in a cool place. Do not store the product in passageways and stairways.

**7.3. Specific end use(s)**

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**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Other information**

Contains no substances with occupational exposure limit values.

**8.2. Exposure controls**

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**General protective and hygiene measures**

Observe the usual precautions for handling chemicals. Remove and wash contaminated clothing before reuse. Wash hands before breaks and after work. Keep away from foodstuffs and beverages.

**Respiratory protection**

Normally not required.

**Hand protection**

Normally not required.

The selection of a suitable glove depends not only on the material but also on other quality features and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of glove materials cannot be calculated in advance and must therefore be checked before use. Hand protection must comply with EN 374.

**Eye protection**

Normally not required.

**Body protection**

Normally not required.

**Environmental exposure controls**

No data available.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties****Physical state**

solid

**Melting point**

Remarks not determined

**Freezing point**

Remarks not determined

**Boiling point or initial boiling point and boiling range**

Remarks not determined

**Flammability**

not determined

**Upper and lower explosive limits**

Remarks not determined

**Flash point**

Value > 60 °C

Remarks not determined

**Auto-ignition temperature**

Remarks not determined

**Decomposition temperature**

Remarks not determined

**pH value**

Remarks not determined

**Viscosity**

Remarks not determined

**Solubility(ies)**

Remarks not determined

**Partition coefficient n-octanol/water (log value)**

Remarks not determined

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**Vapour pressure**

Remarks not determined

**Density and/or relative density**

Remarks not determined

**Relative vapour density**

Remarks not determined

**9.2. Other information****Odour threshold**

Remarks not determined

**Evaporation rate (ether = 1) :**

Remarks not determined

**Solubility in water**

Remarks not determined

**Explosive properties**

evaluation not determined

**Oxidising properties**

Remarks not determined

**Other information**

None known

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No hazardous reactions when stored and handled according to prescribed instructions.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

No hazardous reactions known.

**10.4. Conditions to avoid**Protect from heat and direct sunlight. Protect against wetness. Water. acid. Oxidising agents. Metals.  
Conductive materials**10.6. Hazardous decomposition products**

No data available.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**

Remarks Based on available data, the classification criteria are not met.

**Acute dermal toxicity**

Remarks Based on available data, the classification criteria are not met.

**Acute inhalational toxicity**

Remarks Based on available data, the classification criteria are not met.

**Skin corrosion/irritation**

Remarks Based on available data, the classification criteria are not met.

**Serious eye damage/irritation**

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Remarks Based on available data, the classification criteria are not met.

**Sensitization**

Remarks Based on available data, the classification criteria are not met.

**Subacute, subchronic, chronic toxicity**

Remarks Based on available data, the classification criteria are not met.

**Mutagenicity**

Remarks Based on available data, the classification criteria are not met.

**Reproductive toxicity**

Remarks Based on available data, the classification criteria are not met.

**Carcinogenicity**

Remarks Based on available data, the classification criteria are not met.

**Specific Target Organ Toxicity (STOT)**

Remarks Based on available data, the classification criteria are not met.

**11.2. Information on other hazards****Endocrine disrupting properties with respect to humans**

No data available.

**Other information**

There is no data available on the product apart from the information given in this subsection.

**SECTION 12: Ecological information****12.1. Toxicity****General information**

not determined

**12.2. Persistence and degradability****General information**

not determined

**12.3. Bioaccumulative potential****General information**

not determined

**Partition coefficient n-octanol/water (log value)**

Remarks not determined

**12.4. Mobility in soil****General information**

not determined

**12.5. Results of PBT and vPvB assessment****General information**

not determined

**12.6 Endocrine disrupting properties****Endocrine disrupting properties with respect to the environment**

No data available.

**12.7. Other adverse effects****General information**

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not determined

**General information / ecology**

Do not discharge product unmonitored into the environment.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations for the product**

Allocation of a waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

EWC waste code 16 06 05

other batteries and accumulators

EWC waste code 16 06 06\*

separately collected electrolyte from batteries and accumulators




EWC waste code 20 01 34

batteries and accumulators other than those mentioned in 20 01 33

**Disposal recommendations for packaging**

Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

**SECTION 14: Transport information**

|                                  | Land transport ADR/RID  | Marine transport IMDG/GGVSee   | Air transport ICAO/IATA   |
|----------------------------------|---|--|---|
| 14.1. UN number or ID number     | 3481  | 3481   | 3481  |
| 14.2. UN proper shipping name    | LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT  | LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT   | LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT  |
| 14.3. Transport hazard class(es) | 9   | 9  | 9   |
| Label                            |  |  |  |
| Limited Quantity                 | 0   |  |   |
| Transport category               | 2   |  |   |
| Tunnel restriction code          | E   |  |   |

**Information for all modes of transport****14.6. Special precautions for user**

none

**Other information****14.7. Maritime transport in bulk according to IMO instruments**

Not relevant

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## **SECTION 15: Regulatory information**

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

#### **Other regulations, restrictions and prohibition regulations**

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EU regulations:

Regulation (EU) 2023/1542 on batteries and waste batteries

### **15.2. Chemical safety assessment**

For this preparation a chemical safety assessment has not been carried out.

## **SECTION 16: Other information**

### **Supplemental information**

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\*

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.