



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

RP-Technik GmbH

### ZAW411WL-AZ-COOLIP54

Revision date: 04.04.2023

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

### 1.1. Product identifier

ZAW411WL-AZ-COOLIP54

### Further trade names

Type: Lithium Iron Phosphate Battery/Accumulator

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

#### Use of the substance/mixture

batteries and accumulators

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

|                        |                               |                        |
|------------------------|-------------------------------|------------------------|
| <b>Company name:</b>   | RP-Technik GmbH               |                        |
| <b>Street:</b>         | Hermann-Staudinger-Str. 10-16 |                        |
| <b>Place:</b>          | D-63110 Rodgau                |                        |
| <b>Telephone:</b>      | +49 (6106) 660 28 - 0         | +49 (6106) 660 28 - 40 |
| <b>E-mail:</b>         | info@rp-group.com             |                        |
| <b>Contact person:</b> | Francisco Goerke              |                        |
| <b>E-mail:</b>         | product@rp-group.com          |                        |

### 1.4. Emergency telephone number:

+49 (6106) 660 28 - 0 (24 h.)

### Further Information

This battery pack is an article according to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 453/2010, and is not subject to the REACH regulation. The information contained in this safety data sheet contains valuable and critical information for the safe and proper use of the product. This SDS should be kept and made available to employees and other users of the product.

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Regulation (EC) No 1272/2008

Acute Tox. 4; H302  
Skin Irrit. 2; H315  
Eye Dam. 1; H318  
STOT RE 2; H373  
Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

#### Additional advice on labelling

Labelling according to Regulation (EC) No. 1272/2008 [CLP]: not applicable / not relevant  
The product is: article (batteries and accumulators)

### 2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.  
Risk of explosion by shock, friction, fire or other sources of ignition. (Formation of: Gases/vapours, toxic) Do not open container by force. To avoid risks to man and the environment, comply with the instructions for use.



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## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Chemical characterization

The product is: article (batteries and accumulators)

#### Relevant ingredients

| CAS No     | Chemical name                                                           | Quantity    |
|------------|-------------------------------------------------------------------------|-------------|
| 7440-50-8  | Copper                                                                  | 10 - < 15 % |
| 231-159-6  | 029-024-00-X                                                            | —           |
| —          | Aquatic Chronic 2; H411                                                 | —           |
| 96-49-1    | Ethylene carbonate                                                      | < 20 %      |
| 202-510-0  | —                                                                       | —           |
| —          | Acute Tox. 4, Eye Irrit. 2, STOT RE 2; H302 H319 H373                   | —           |
| 623-53-0   | Ethyl methyl carbonate                                                  | < 20 %      |
| 433-480-9  | —                                                                       | —           |
| —          | Acute Tox. 4, Eye Irrit. 2, STOT RE 2; H302 H319 H373                   | —           |
| 21324-40-3 | Lithium hexafluorophosphate(1-)                                         | < 20 %      |
| 244-334-7  | —                                                                       | —           |
| —          | Acute Tox. 3, Skin Corr. 1A, Eye Dam. 1, STOT RE 1; H301 H314 H318 H372 | —           |

Full text of H and EUH statements: see section 16.

#### Specific Conc. Limits, M-factors and ATE

| CAS No     | EC No                                                                                                                       | Chemical name                   | Quantity  |
|------------|-----------------------------------------------------------------------------------------------------------------------------|---------------------------------|-----------|
| 21324-40-3 | 244-334-7                                                                                                                   | Lithium hexafluorophosphate(1-) | 15 - 22 % |
| —          | <b>Specific Conc. Limits, M-factors and ATE</b>                                                                             | —                               | —         |
| —          | oral: ATE =<br>Ethylene carbonate: 500 mg/kg; Ethyl methyl carbonate: 500 mg/kg; Lithium hexafluorophosphate(1-): 100 mg/kg | —                               | —         |



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## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### **General information**

In all cases of doubt, or when symptoms persist, seek medical attention. The following instructions refer to direct contact with the contents of the battery or accumulator.

#### **After inhalation**

Ensure fresh air supply. If respiratory symptoms occur: call a doctor.

#### **After contact with skin**

Wash off with plenty of water. Remove contaminated clothing and wash before re-use. If skin reactions occur, consult a doctor.

#### **After contact with eyes**

Immediately rinse carefully and thoroughly with eye wash or water. Remove contact lenses if possible. Continue rinsing. Do not rub. If eye irritation persists, consult an ophthalmologist.

#### **After ingestion**

If swallowed rinse mouth with water (only if person is conscious). In all cases of doubt, or when symptoms persist, seek medical attention.

### 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

Symptomatic treatment.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### **Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>), water spray. Adapt firefighting measures to the surrounding area.  
Co-ordinate fire-fighting measures to the fire surroundings.

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

Danger of bursting container. (Electrolyte: Highly flammable). In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO<sub>2</sub>), toxic metal oxide smoke, corrosive. Pyrolysis products, toxic, containing fluorine.

### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Full protective suit.

#### **Additional information**

Knock down dust with water spray. Collect contaminated firefighting water separately, must not enter the sewage system.



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## SECTION 6: Accidental release measures

### **6.1. Personal precautions, protective equipment and emergency procedures**

#### **General advice**

Do not breathe gas/fumes/vapour/aerosol. Avoid contact with skin, eyes and clothing. Bring persons to safety. Ensure adequate ventilation. Remove all ignition sources. Use personal protective equipment.

#### **For non-emergency personnel**

Wear personal protective equipment (see Section 8).

#### **For emergency responders**

Wear personal protection equipment (refer to section 8).

### **6.2. Environmental precautions**

Avoid release into the environment.

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

#### **For containment**

Stop leakage if safe to do so. Batteries and accumulators: Explosive risk through impact, friction, fire or other sources of ignition.

#### **For cleaning up**

Collect mechanically. Treat collected material according to the disposal section. Electrolyte: Absorb with liquid-binding material (sand, diatomite, acid binder, universal binder). Treat collected material according to the disposal section.

#### **Other information**

Use non-sparking tools.

### **6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13



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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### **Advice on safe handling**

Handle with care - avoid bumps, friction and impact. Do not force open the container. Do not breathe gas/fumes/vapour/aerosol. Avoid contact with skin, eyes and clothing.

#### **Advice on protection against fire and explosion**



Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge.

#### **Advice on general occupational hygiene**

Remove contaminated clothing and wash before re-use. Wash hands before breaks and at the end of work. Do not eat, drink, smoke or sniff at the workplace.

#### **Further information on handling**

Observe instructions for use to avoid risks for humans and the environment.

### 7.2. Conditions for safe storage, including any incompatibilities

#### **Requirements for storage rooms and vessels**

Store in a cool and dry place. Ensure adequate ventilation and local exhaust at critical points. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### **Hints on joint storage**

Do not store together with: Do not store together with: metals (including alloys), acid, alkalis (lye), halogenated hydrocarbons, strong oxidising agents.

#### **Further information on storage conditions**

Keep away from heat. (Temperature > 70 °C) Protect from direct sunlight. Protect from moisture.

### 7.3. Specific end use(s)

batteries and accumulators



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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

| CAS No    | Substance                                                | ppm | mg/m <sup>3</sup> | fib/cm <sup>3</sup> | Category      | Origin |
|-----------|----------------------------------------------------------|-----|-------------------|---------------------|---------------|--------|
| 7429-90-5 | Aluminium metal (Respirable Fraction)                    | -   | 1                 | —                   | TWA (8 h)     | —      |
| 7440-50-8 | Copper, fume                                             | -   | 0.2               | —                   | TWA (8 h)     | —      |
| -         | Fluorides, inorganic                                     | -   | 2.5               | —                   | TWA (8 h)     | —      |
| 7782-42-5 | Graphite (all forms except fibres) (Respirable Fraction) | -   | 2                 | —                   | TWA (8 h)     | —      |
| -         | Iron salts (as Fe)                                       | -   | 1                 | —                   | TWA (8 h)     | —      |
| -         | —                                                        | -   | 2                 | —                   | STEL (15 min) | —      |
| 7440-02-0 | Nickel                                                   | -   | 0.5               | —                   | TWA (8 h)     | —      |

#### Biological limit values

| CAS No    | Substance | Parameter | Value  | Test material | Sampling time                            |
|-----------|-----------|-----------|--------|---------------|------------------------------------------|
| 7440-02-0 | Nickel    | Ni        | 3 µg/L | Urine         | After several consecutive working shifts |

### 8.2. Exposure controls

#### Appropriate engineering controls

Ensure adequate ventilation and local exhaust at critical points.

#### Individual protection measures, such as personal protective equipment

##### Eye/face protection

In case of exposure (electrolyte): Wear safety glasses/face shield.

##### Hand protection



In case of exposure (electrolyte): Wear suitable protective gloves (EN ISO 374). Only chemical protective gloves with CE marking including four-digit test number may be used when handling chemical substances. Chemical protective gloves must be selected specifically for the workplace depending on hazardous substance concentration and quantity. It is recommended to clarify the chemical resistance of the above-mentioned protective gloves for specific applications with the glove manufacturer.

##### Skin protection

Wear appropriate protective clothing at work.

##### Respiratory protection

In case of exposure (electrolyte): If ventilation is insufficient, wear respiratory protection.

##### Thermal hazards

Flame-retardant clothing. Wear antistatic footwear and work clothing.

##### Environmental exposure controls

Avoid release into the environment.



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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                                                           |                               |
|-----------------------------------------------------------|-------------------------------|
| Physical state:                                           | solid                         |
| Colour:                                                   | No information available.     |
| Odour:                                                    | Odourless                     |
| Odour threshold:                                          | not applicable                |
| Melting point/freezing point:                             | Not determined                |
| Boiling point or initial boiling point and boiling range: | Not determined                |
| Flammability:                                             | Electrolyte: Highly flammable |
| Lower explosion limits:                                   | not determined                |
| Upper explosion limits:                                   | not determined                |
| Flash point:                                              | Not applicable                |
| Auto-ignition temperature:                                | Not determined                |
| Decomposition temperature:                                | Not determined                |
| pH-Value:                                                 | Not applicable                |
| Viscosity / kinematic:                                    | Not applicable                |
| Water solubility:                                         | Practically insoluble         |
| Solubility in other solvents                              | not determined                |
| Partition coefficient n-octanol/water:                    | not determined                |
| Vapour pressure:                                          | Not determined                |
| Density:                                                  | Not determined                |
| Relative vapour density:                                  | not determined                |
| Particle characteristics:                                 | not determined                |

### 9.2. Other information

No information available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No hazardous reactions when handled and stored according to provisions.

### 10.2. Chemical stability

The product is stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Heat / In case of fire: Danger of bursting container. Handle with care - avoid bumps, friction and impact.

### 10.4. Conditions to avoid

Heat (Temperature > 70 °C). Direct sunlight. Moisture. Impact, friction, shock.

### 10.5. Incompatible materials

Metals (including alloys), acid, alkalis (lye), halogenated hydrocarbons, strong oxidising agents.

### 10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO<sub>2</sub>), toxic metal oxide smoke, corrosive. Pyrolysis products, toxic, containing fluorine.



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## SECTION 11: Toxicological information

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

#### Acute toxicity

Harmful if swallowed. (Electrolyte components: Ethylene carbonate, Ethyl methyl carbonate ATE oral = 500 mg/kg; Lithium hexafluorophosphate(1-) ATE oral = 100 mg/kg).

#### ATEmix calculated

ATE (oral) Ethylene carbonate: 500 mg/kg; Ethyl methyl carbonate: 500 mg/kg; Lithium hexafluorophosphate(1-): 100 mg/kg;  
ATE (dermal) not determined; ATE (inhalation vapour) not determined; ATE (inhalation dust/mist) not determined

| CAS No     | Chemical name                   |               |         |        |        |
|------------|---------------------------------|---------------|---------|--------|--------|
| —          | Exposure route                  | Dose          | Species | Source | Method |
| 21324-40-3 | Lithium hexafluorophosphate(1-) |               |         |        |        |
| —          | oral                            | ATE 100 mg/kg | —       | —      | —      |

#### Irritation and corrosivity

Causes skin irritation. Causes serious eye damage. (Electrolyte: Lithium hexafluorophosphate causes severe skin burns and serious eye damage).

#### Sensitising effects

No information available.

#### Carcinogenic/mutagenic/toxic effects for reproduction

No information available.

#### STOT-single exposure

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

#### STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure. (Ethylene carbonate, Ethyl methyl carbonate: STOT RE 2; H373). Causes damage to organs through prolonged or repeated exposure. (Lithium hexafluorophosphate(1-): STOT RE 1; H372).

#### Aspiration hazard

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

#### Information on likely routes of exposure

Electrolyte: oral, skin contact, eye contact, inhalation.

### 11.2. Information on other hazards

#### Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.



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## SECTION 12: Ecological information

### **12.1. Toxicity**

Copper: Aquatic Chronic 2; H411. Aquatic Chronic 3; H412 (product classification). Electrolyte components may be harmful to aquatic organisms with long lasting effects.

### **12.2. Persistence and degradability**

The product has not been tested.

### **12.3. Bioaccumulative potential**

The product has not been tested.

### **12.4. Mobility in soil**

The product has not been tested.

### **12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, Annex XIII.

### **12.6. Endocrine disrupting properties**

No information available.

### **12.7. Other adverse effects**

No information available.

### **Further information**

Avoid release into the environment. Do not allow to enter surface water or drains.

## SECTION 13: Disposal considerations

### **13.1. Waste treatment methods**

#### **Disposal recommendations**

Dispose of waste according to applicable legislation. Do not allow to enter surface water or drains. Do not allow to enter soil/subsoil. Do not pierce or burn, even after use. Batteries and accumulators must be disposed of separately from household waste in accordance with applicable regulations.

#### **Contaminated packaging**

Dispose of waste according to applicable legislation.



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### SECTION 14: Transport information

#### Land transport (ADR/RID)

**14.1. UN number or ID number:** UN 3481

**14.2. UN proper shipping name:** LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT

**14.3. Transport hazard class(es):** 9

**14.4. Packing group:** -



Hazard label: 9A

Classification code: M4

Special Provisions: 188 230 310 348 360 376 377 387 390 670

Limited quantity: 0

Excepted quantity: E0

Transport category: 2

Tunnel restriction code: E

#### Inland waterways transport (ADN)

**14.1. UN number or ID number:** UN 3481

**14.2. UN proper shipping name:** LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT

**14.3. Transport hazard class(es):** 9

**14.4. Packing group:** -



Hazard label: 9A

Classification code: M4

Special Provisions: 188 230 310 348 360 376 377 387 390 670

Limited quantity: 0

Excepted quantity: E0

#### Marine transport (IMDG)

**14.1. UN number or ID number:** UN 3481

**14.2. UN proper shipping name:** LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT

**14.3. Transport hazard class(es):** 9

**14.4. Packing group:** -



Hazard label: 9A

Special Provisions: 188 230 310 348 360 376 377 384 387 390

Limited quantity: 0

Excepted quantity: E0

EmS: F-A, S-I

#### Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number or ID number:** UN 3481

**14.2. UN proper shipping name:** LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT

**14.3. Transport hazard class(es):** 9

**14.4. Packing group:** -



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Hazard label: 9A

Special Provisions: A48 A88 A99 A154 A164 A181 A185 A213 A22

Limited quantity Passenger: Forbidden

Passenger LQ: Forbidden

Excepted quantity: E0

IATA-packing instructions - Passenger: 965

IATA-max. quantity - Passenger: 35 kg

IATA-packing instructions - Cargo: 965

IATA-max. quantity - Cargo: 35 kg

#### **14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

#### **14.6. Special precautions for user**

Protect against: Heat, condensation, humidity. Handle with care - avoid bumps, friction and impact.

#### **14.7. Maritime transport in bulk according to IMO instruments**

not applicable

### **SECTION 15: Regulatory information**

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

##### **EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 27, Entry 40, Entry 75

Information according to Directive 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

Marketing and use of explosives precursors (Regulation (EU) 2019/1148):

This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

##### **Additional information**

There is no requirement for the product to be specially labelled according to EC directives or the corresponding national laws.

##### **National regulatory information**

Water hazard class (D): 2 - obviously hazardous to water

##### **Additional information**

Observe in addition any national regulations!

#### **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

### Abbreviations and acronyms

Water-react: Substance and mixture which, in contact with water, emits flammable gas  
Flam. Sol: Flammable solid  
Acute Tox: Acute toxicity  
Skin Corr: Skin corrosion  
Eye Dam: Eye damage  
Skin Sens: Skin sensitisation  
Carc: Carcinogenicity  
STOT RE: Specific target organ toxicity - repeated exposure  
Aquatic Acute: Acute aquatic hazard  
Aquatic Chronic: Chronic aquatic hazard  
CLP: Classification, labelling and Packaging  
REACH: Registration, Evaluation and Authorization of Chemicals  
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals  
UN: United Nations  
CAS: Chemical Abstracts Service  
M-Factor: Multiplication Factor  
DNEL: Derived No Effect Level  
DMEL: Derived Minimal Effect Level  
PNEC: Predicted No Effect Concentration  
ATE: Acute toxicity estimate  
LC50: Lethal concentration, 50%  
LD50: Lethal dose, 50%  
LL50: Lethal loading, 50%  
EL50: Effect loading, 50%  
EC50: Effective Concentration 50%  
ErC50: Effective Concentration 50%, growth rate  
NOEC: No Observed Effect Concentration  
BCF: Bio-concentration factor  
PBT: persistent, bioaccumulative, toxic  
vPvB: very persistent, very bioaccumulative  
ADR: Accord européen sur le transport des marchandises dangereuses par Route  
RID: Regulations concerning the international carriage of dangerous goods by rail  
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
IMDG: International Maritime Code for Dangerous Goods  
EmS: Emergency Schedules  
MFAG: Medical First Aid Guide  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organization  
TI: Technical Instructions  
DGR: Dangerous Goods Regulations  
MARPOL: International Convention for the Prevention of Marine Pollution from Ships  
IBC: Intermediate Bulk Container  
VOC: Volatile Organic Compounds  
EG or EC: European Community  
IE: Industrial Emissions  
SVHC: Substance of Very High Concern

### Key literature references and sources for data

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations). (v.1.2, 2013)

### Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

| Classification     | Classification procedure |
|--------------------|--------------------------|
| Acute Tox. 4; H302 | Calculation method       |



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|                         |                    |
|-------------------------|--------------------|
| Skin Irrit. 2; H315     | Calculation method |
| Eye Dam. 1; H318        | Calculation method |
| STOT RE 2; H373         | Calculation method |
| Aquatic Chronic 3; H412 | Calculation method |

#### Relevant H and EUH statements (number and full text)

|      |                                                                    |
|------|--------------------------------------------------------------------|
| H301 | Toxic if swallowed.                                                |
| H302 | Harmful if swallowed.                                              |
| H314 | Causes severe skin burns and eye damage.                           |
| H317 | May cause an allergic skin reaction.                               |
| H318 | Causes serious eye damage.                                         |
| H351 | Suspected of causing cancer.                                       |
| H372 | Causes damage to organs through prolonged or repeated exposure.    |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life.                                        |
| H412 | Harmful to aquatic life with long lasting effects.                 |

#### Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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