

# Safety Data Sheet

## Rechargeable Li-Ion battery ZXAA (1.5V/3.7V 2400mAh/880mAh 3.0Wh)

Replaces date: 15/12/2023

Revision date: 21/01/2024

Version: 2.0.0

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

#### 1.1. Product identifier

**Trade name:** Rechargeable Li-Ion battery ZXAA (1.5V/3.7V 2400mAh/880mAh 3.0Wh)

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

**Recommended uses:** According to UK REACH, the product is an article and is consequently not subject to the requirement for a safety data sheet.

**AC:** Electrical batteries and accumulators (AC3)

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

##### Supplier

**Company:** LAKUDA ApS  
**Address:** Spettrupvej 1-3  
**Zip code:** 8722  
**City:** Hedensted  
**Country:** DENMARK  
**E-mail:** sales@lakuda.dk  
**Phone:** 7640 7010

##### Manufacturer

**Company:** Coast Products, Inc.  
**Address:** 8033 NE Holman Street  
**Zip code:** OR 97218  
**City:** Portland  
**State:** Oregon  
**Country:** UNITED STATES OF AMERICA  
**E-mail:** consumer.help@coastportland.com  
**Phone:** 1-800-426-5858  
**Fax:** 1-503-764-0370  
**Homepage:** www.coastportland.com

#### 1.4. Emergency Telephone Number

Members of the public: 111 (NHS 111 (Scotland: NHS 24)).

### SECTION 2: Hazards identification

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

**CLP-classification:** The product shall not be classified as hazardous according to the classification and labeling rules for substance and mixtures.

**Most serious harmful effects:** According to UK REACH, the product is an article and is consequently not subject to the requirement for a safety data sheet. The intact article does not pose any danger. This safety data sheet describes the danger of the mixture inside the article. Contact is only possible if the article is not intact. The mixture inside the article has the following hazardous characteristics:

May cause an allergic skin reaction.

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Suspected of causing cancer.  
May damage fertility.  
May cause damage to organs through prolonged or repeated exposure.  
Very toxic to aquatic life.  
Very toxic to aquatic life with long lasting effects.

### 2.2. Label elements

The product shall not be classified as hazardous according to the classification and labeling rules for substance and mixtures.

#### Supplemental information

According to UK REACH the product is an article and thus not subject to the requirements regarding labelling.

### 2.3. Other hazards

Assessment to determine PBT and vPvB has not been made.  
Endocrine disrupting properties: None known.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Substance	CAS No./ EC No./ REACH Reg. No.	Concentration	Notes	CLP-classification
Cobalt lithium dioxide	12190-79-3 235-362-0	32 %		Repr. 1B;H360F Aquatic Acute 1;H400 Aquatic Chronic 1;H410
Graphite-	7782-42-5 231-955-3	26 %		
granulated copper	7440-50-8 231-159-6	9 %		Aquatic Chronic 2;H411
aluminium powder (stabilised)	7429-90-5 231-072-3	7 %		Flam. Sol. 1;H228 Water-react. 2;H261
Polyvinyl chloride	9002-86-2 618-338-8	3 %	13	
nickel	7440-02-0 231-111-4	3 %		Skin Sens. 1;H317 Carc. 2;H351 STOT RE 1;H372

Please see section 16 for the full text of H- / EUH-phrases.

13 = The substance has a national exposure limit.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**Inhalation:** Seek fresh air. Seek medical advice in case of persistent discomfort.

**Ingestion:** Wash out mouth thoroughly and drink 1-2 glasses of water in small sips. Do not induce vomiting. Seek medical advice in case of discomfort.

**Skin contact:** Immediately remove contaminated clothing. Wash the skin thoroughly with water and continue washing for a long time. Seek medical advice in case of persistent discomfort.

**Eye contact:** Flush immediately with water (preferably using eye wash equipment) for at least 5 minutes. Open eye wide. Remove any contact lenses. Seek medical advice.

**General:** When obtaining medical advice, show the safety data sheet or label.

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

May cause sensitisation by skin contact. Symptoms include reddening, swelling, blistering and ulceration - often slowly developing.

Suspected of causing cancer.

May impair fertility.

May cause damage to organs through prolonged or repeated exposure.

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

Treat symptoms. No special immediate treatment required. Ensure that medical personnel are aware of the material involved, and take precautions to protect themselves.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media:** Extinguish with powder, foam, carbon dioxide or water mist. Use water or water mist to cool non-ignited stock.

**Unsuitable extinguishing media:** Do not use water stream, as it may spread the fire.

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

Hazardous fumes are formed in fire conditions.

### 5.3. Advice for firefighters

Wear Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Move containers from danger area if it can be done without risk. Avoid inhalation of vapour and flue gases - seek fresh air.

## SECTION 6: Accidental release measures

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

**For non-emergency personnel:** Wear gloves. Wear safety goggles if there is a risk of eye splash. Provide good ventilation.

**For emergency responders:** In addition to the above: Protective suit equivalent to EN 368, type 3, is recommended.

### 6.2. Environmental precautions

Prevent spillage from entering drains and/or surface water.

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

Wipe up minor spills with a cloth. Rinse with water.

### 6.4. Reference to other sections

See section 8 for type of protective equipment.

See section 13 for instructions on disposal.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid contact with skin and eyes. Running water and eye wash equipment should be available. Wash hands before breaks, before using restroom facilities, and at the end of work.

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

Do not expose to heat (e.g. sunlight). Storage temperature: 15 - 25 °C. Store in a dry area.

### 7.3. Specific end use(s)

None.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limit

Substance name	Time period	ppm	mg/m <sup>3</sup>	fiber/cm <sup>3</sup>	Remarks	Comments
Polyvinyl chloride	8h		10		Total inhalable dust	
Polyvinyl chloride	8h		4		respirable dust	
Polyvinyl chloride	15m				Total inhalable dust	
Polyvinyl chloride	15m				respirable dust	

**Measuring methods:** Compliance with the stated occupational exposure limits may be checked by occupational hygiene measurements.

**Legal basis:** EH40/2005 Workplace exposure limits. Last amended January 2020.

### 8.2. Exposure controls

**Appropriate engineering controls:** Wear the personal protective equipment specified below.

**Personal protective equipment, eye/face protection:** Wear safety goggles if there is a risk of eye splash. Eye protection must conform to EN 166.

**Personal protective equipment, hand protection:** Wear gloves. Type of material: Neoprene rubber/ Nitrile rubber/ Latex. Gloves must conform to EN 374. Breakthrough time has not been determined for the product. Change gloves often.

**Personal protective equipment, respiratory protection:** Not required.

**Environmental exposure controls:** Ensure compliance with local regulations for emissions.

## SECTION 9: Physical and chemical properties

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

Parameter	Value/unit	
State	Liquid	
Colour	N/A	
Odour	N/A	
Solubility	N/A	
Parameter	Value/unit	Remarks
Odour threshold	No data	
Melting point	No data	

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Freezing point	No data	
Initial boiling point and boiling range	No data	
Flammability (solid, gas)	No data	
Flammability limits	No data	
Explosion limits	No data	
Flash Point	No data	
Auto-ignition temperature	No data	
Decomposition temperature	No data	
pH (solution for use)	No data	
pH (concentrate)	No data	
Kinematic viscosity	No data	
Viscosity	No data	
Partition coefficient n-octanol/water	No data	
Vapour pressure	No data	
Density	No data	
Relative density	No data	
Vapour density	No data	
Relative density (sat. air)	No data	
Particle characteristics	No data	

### 9.2. Other information

Other Information: None.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No known data.

### 10.2. Chemical stability

The product is stable when used in accordance with the supplier's directions.

### 10.3. Possibility of hazardous reactions

None known.

### 10.4. Conditions to avoid

Do not expose to heat (e.g. sunlight). Avoid contact with moisture and water.

### 10.5. Incompatible materials

Strong acids/ Strong oxidisers.

### 10.6. Hazardous decomposition products

None, if stored at the recommended storage conditions. Product decomposes in fire conditions or when heated to high temperatures, and inflammable and toxic gases may be released.

## SECTION 11: Toxicological information

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

Acute toxicity - oral

nickel, cas-no 7440-02-0

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Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		> 9000 mg/kg			

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

**Acute toxicity - dermal:** The product does not have to be classified. Test data are not available.

**Acute toxicity - inhalation:** The product does not have to be classified. Test data are not available.

**Skin corrosion/irritation:** The product does not have to be classified. Test data are not available.

**Serious eye damage/eye irritation:** The product does not have to be classified. Test data are not available.

**Respiratory sensitisation or skin sensitisation:** May cause sensitisation by skin contact. Symptoms include reddening, swelling, blistering and ulceration - often slowly developing.

**Germ cell mutagenicity:** The product does not have to be classified. Test data are not available.

**Carcinogenic properties:** Suspected of causing cancer.

**Reproductive toxicity:** May impair fertility.

**Single STOT exposure:** The product does not have to be classified. Test data are not available.

**Repeated STOT exposure:** May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard:** The product does not have to be classified. Test data are not available.

### 11.2. Information on other hazards

**Endocrine disrupting properties:** None known.

**Other toxicological effects:** None known.

## SECTION 12: Ecological information

### 12.1. Toxicity

Very toxic to aquatic life with long lasting effects.

### 12.2. Persistence and degradability

Test data are not available.

### 12.3. Bioaccumulative potential

Test data are not available.

### 12.4. Mobility in soil

Test data are not available.

### 12.5. Results of PBT and vPvB assessment

No assessment has been made.

### 12.6. Endocrine disrupting properties

None known.

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### 12.7. Other adverse effects

None known.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

If this product as supplied becomes a waste, it does not meet the criteria of a hazardous waste (Dir. 2008/98/EU). Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

**Category of waste:** EWC code: Depends on line of business and use, for instance 16 06 05 other batteries and accumulators

## SECTION 14: Transport information

### Land transport (ADR/RID)

<b>14.1. UN number or ID number:</b>	3480	<b>14.4. Packing group:</b>	
<b>14.2. UN proper shipping name:</b>	LITHIUM ION BATTERIES	<b>14.5. Environmental hazards:</b>	The product should not be labelled as an environmental hazard (symbol: fish and tree).
<b>14.3. Transport hazard class(es):</b>	9		
<b>Hazard label(s):</b>	LITH		
<b>Hazard identification number:</b>		<b>Tunnel restriction code:</b>	
<b>Other Information:</b>	The battery meets the required special provisions 188, so that it is not to be transported as fully regulated dangerous goods.		

### Inland water ways transport (ADN)

<b>14.1. UN number or ID number:</b>	3480	<b>14.4. Packing group:</b>	
<b>14.2. UN proper shipping name:</b>	LITHIUM ION BATTERIES	<b>14.5. Environmental hazards:</b>	The product should not be labelled as an environmental hazard (symbol: fish and tree).
<b>14.3. Transport hazard class(es):</b>	9		
<b>Hazard label(s):</b>	LITH		
<b>Transport in tank vessels:</b>			

### Sea transport (IMDG)

<b>14.1. UN number or ID number:</b>	3480	<b>14.4. Packing group:</b>	
<b>14.2. UN proper shipping name:</b>	LITHIUM ION BATTERIES	<b>14.5. Environmental hazards:</b>	The product is not a Marine Pollutant (MP).
<b>14.3. Transport hazard class(es):</b>	9	<b>Environmental Hazardous Substance Name(s):</b>	
<b>Hazard label(s):</b>	LITH		
<b>EmS:</b>	F-A, S-I	<b>IMDG Code segregation group:</b>	- None -

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**Other Information:** The battery meets the required special provisions 188, so that it is not to be transported as fully regulated dangerous goods.

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

<b>14.1. UN number or ID number:</b>	3480	<b>14.4. Packing group:</b>	
<b>14.2. UN proper shipping name:</b>	LITHIUM ION BATTERIES	<b>14.5. Environmental hazards:</b>	The product should not be labelled as an environmental hazard (symbol: fish and tree).
<b>14.3. Transport hazard class(es):</b>	9		
<b>Hazard label(s):</b>	9A+LITH		

### 14.6. Special precautions for user

None.

### 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

**Special Provisions:** None.

### 15.2. Chemical Safety Assessment

**Other Information:** Chemical safety assessment has not been performed.

## SECTION 16: Other information

### Version history and indication of changes

Version	Revision date	Responsible	Changes
2.0.0	21/01/2024	KDCL/Joblife a/s	SP188 added
1.0.0	15/12/2023	KDCL/Joblife a/s	New SDS

**Abbreviations:** PBT: Persistent, Bioaccumulative and Toxic  
STOT: Specific Target Organ Toxicity  
vPvB: Very Persistent and Very Bioaccumulative

**Other Information:** This safety data sheet has been prepared for and applies to this product only. It is based on our current knowledge and the information that the supplier was able to provide about the product at the time of preparation. The safety data sheet complies with applicable law on preparation of safety data sheets in accordance with Regulation 1907/2006/EC "The Registration, Evaluation and Authorization of Chemicals" as amended by the stationary UK REACH etc. (EU Exit) as subsequently changed.

**Training advice:** A thorough knowledge of this safety data sheet should be a prerequisite condition.

**Classification method:** Calculation based on the hazards of the known components.

### Hazard statements

H228	Flammable solid.
H261	In contact with water releases flammable gases.
H317	May cause an allergic skin reaction.

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H351	Suspected of causing cancer.
H360F	May damage fertility.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

**Quality assurance of SDS:** Joblife a/s (KDCL)

### SDS is prepared by

Company: Joblife a/s  
Address: Jupitervej 1  
Zip code: 6000  
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