

SAFETY DATA SHEET

Rechargeable Li-Ion Batteries
ZXAAA (1.5V/3.6V · 750mAh/260mAh · 0.94Wh)
ZXAA (1.5V/3.7V · 2400mAh/880mAh · 3.0Wh)

Revision date: 21/01/2024

Replaces date: 15/12/2023

Version: 2.0.0

Prepared by: Joblife a/s (KDCL)

Note: This is a consolidated Safety Data Sheet covering two product variants. Sections where the two products differ are presented in a split format. Sections that are identical for both products are presented once and apply to both variants.

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

1.1. Product identifier

	ZXAAA	ZXAA
Trade name	Rechargeable Li-Ion battery ZXAAA (1.5V/3.6V 750mAh/260mAh 0.94Wh)	Rechargeable Li-Ion battery ZXAA (1.5V/3.7V 2400mAh/880mAh 3.0Wh)

1.2. Relevant identified uses

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

Supplier (LAKUDA ApS)	Manufacturer (Coast Products, Inc.)
LAKUDA ApS Spettrupvej 1-3 8722 Hedensted DENMARK E-mail: sales@lakuda.dk Phone: 7640 7010	Coast Products, Inc. 8033 NE Holman Street OR 97218 Portland, Oregon UNITED STATES OF AMERICA E-mail: consumer.help@coastportland.com Phone: 1-800-426-5858 Fax: 1-503-764-0370 Web: www.coastportland.com

1.4. Emergency Telephone Number

Members of the public	111 (NHS 111 — Scotland: NHS 24)
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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 substances and mixtures.	
Most serious harmful effects	ZXAAA	ZXAA
	<ul style="list-style-type: none">Fatal if inhaled.May cause cancer by inhalation.Causes damage to organs through prolonged or repeated exposure.Harmful to aquatic life with long lasting effects.Contains nickel. May produce an allergic reaction.	<ul style="list-style-type: none">May cause an allergic skin reaction.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.

According to UK REACH, the product is an article. The intact article does not pose any danger. This SDS describes the danger of the mixture inside the article. Contact is only possible if the article is not intact.

2.2. Label elements

Label classification	The product shall not be classified as hazardous according to the classification and labeling rules for substances and mixtures.
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Supplemental information	According to UK REACH the product is an article and thus not subject to the requirements regarding labelling.
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2.3. Other hazards

PBT / vPvB assessment	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.	ZXAAA conc.	ZXAA conc.	CLP-classification
Cobalt lithium manganese nickel oxide	182442-95-1 / 695-690-9	≤ 39 %	—	Acute Tox. 2;H330 · Carc. 1B;H350i · STOT RE 1;H372 (Lungs/Inhalation) · Aquatic Chronic 3;H412
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 %	26 %	—
Granulated copper	7440-50-8 / 231-159-6	≤ 10 %	9 %	Aquatic Chronic 2;H411
Aluminium powder (stabilised)	7429-90-5 / 231-072-3	≤ 8 %	7 %	Flam. Sol. 1;H228 · Water-react. 2;H261
Polyvinyl chloride ¹³	9002-86-2 / 618-338-8	≤ 1.3 %	3 %	—
Nickel	7440-02-0 / 231-111-4	0.5 %	3 %	Skin Sens. 1;H317 · Carc. 2;H351 · STOT RE 1;H372

¹³ The substance has a national exposure limit. Please see Section 16 for full text of H-phrases.

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.

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

	ZXAAA	ZXAA
	Fatal if inhaled. May cause cancer by inhalation. Causes damage to organs through prolonged or repeated exposure.	May cause sensitisation by skin contact (reddening, swelling, blistering, ulceration). 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. Suitable extinguishing media	Extinguish with powder, foam, carbon dioxide or water mist. Use water or water mist to cool non-ignited stock.
5.1. Unsuitable extinguishing media	Do not use water stream, as it may spread the fire.
5.2. Special hazards	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. Non-emergency personnel	Wear gloves. Wear safety goggles if there is a risk of eye splash. Provide good ventilation.
6.1. 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. Containment and clean-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. 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.
7.2. Storage conditions	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 limits

Substance	Time period	mg/m ³	Remarks
Polyvinyl chloride	8h	10	Total inhalable dust
Polyvinyl chloride	8h	4	Respirable dust
Polyvinyl chloride	15m	—	Total inhalable dust
Polyvinyl chloride	15m	—	Respirable dust

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

8.2. Exposure controls

Engineering controls	Wear the personal protective equipment specified below.
Eye/face protection	Wear safety goggles if there is a risk of eye splash. Eye protection must conform to EN 166.
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.
Respiratory protection	Not required.
Environmental exposure controls	Ensure compliance with local regulations for emissions.

SECTION 9: Physical and chemical properties

Parameter	ZXAAA	ZXAA
State	Liquid	Liquid
Colour	N/A	N/A
Odour	N/A	N/A
Solubility	N/A	N/A
Odour threshold	No data	No data
Melting / Freezing point	No data	No data
Initial boiling point	No data	No data
Flammability (solid, gas)	No data	No data
Flash Point	No data	No data
Auto-ignition temperature	No data	No data
pH (solution / concentrate)	No data	No data
Vapour pressure / density	No data	No data
Density / Relative density	No data	No data

Partition coeff. n-oct/water	No data	No data
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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. 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 (Regulation (EC) No 1272/2008)

Hazard class	ZXAAA	ZXAA
Acute toxicity – oral (nickel, Rat LD50)	Not classified. LD50 > 9000 mg/kg.	Not classified. LD50 > 9000 mg/kg.
Acute toxicity – dermal	Not classified. No test data.	Not classified. No test data.
Acute toxicity – inhalation	Fatal if inhaled.	Not classified. No test data.
Skin corrosion/irritation	Not classified. No test data.	Not classified. No test data.
Serious eye damage/irritation	Not classified. No test data.	Not classified. No test data.
Respiratory/skin sensitisation	Not classified. No test data.	May cause sensitisation by skin contact.
Germ cell mutagenicity	Not classified. No test data.	Not classified. No test data.
Carcinogenic properties	May cause cancer by inhalation.	Suspected of causing cancer.
Reproductive toxicity	Not classified. No test data.	May impair fertility.
Single STOT exposure	Not classified. No test data.	Not classified. No test data.
Repeated STOT exposure	Causes damage to organs through prolonged or repeated exposure.	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	Not classified. No test data.	Not classified. No test data.

11.2. Information on other hazards

Endocrine disrupting properties	None known.
Other toxicological effects	None known.

SECTION 12: Ecological information

Parameter	ZXAAA	ZXAA
12.1. Toxicity	Harmful to aquatic life with long lasting effects.	Very toxic to aquatic life with long lasting effects.
12.2. Persistence and degradability	Test data are not available.	Test data are not available.
12.3. Bioaccumulative potential	Test data are not available.	Test data are not available.
12.4. Mobility in soil	Test data are not available.	Test data are not available.
12.5. PBT and vPvB assessment	No assessment has been made.	No assessment has been made.
12.6. Endocrine disrupting properties	None known.	None known.
12.7. Other adverse effects	None known.	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.
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)

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

Inland waterways transport (ADN)

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

Sea transport (IMDG)

14.1. UN number	3480
14.2. UN proper shipping name	LITHIUM ION BATTERIES
14.3. Transport hazard class	9
Hazard label(s)	LITH
14.4. Packing group	—
14.5. Environmental hazards	The product should not be labelled as an environmental hazard (symbol: fish and tree). Not a Marine Pollutant (MP).
EmS	F-A, S-I
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)

14.1. UN number	3480
14.2. UN proper shipping name	LITHIUM ION BATTERIES
14.3. Transport hazard class	9
Hazard label(s)	9A + LITH
14.4. Packing group	—
14.5. Environmental hazards	The product should not be labelled as an environmental hazard (symbol: fish and tree).
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. Special Provisions	None.
15.2. Chemical Safety Assessment	Chemical safety assessment has not been performed.

SECTION 16: Other information

Version history

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

Hazard statements (full text)

H228	Flammable solid.
H261	In contact with water releases flammable gases.
H317	May cause an allergic skin reaction.
H330	Fatal if inhaled. [ZXAAA only]
H350i	May cause cancer by inhalation. [ZXAAA only]
H351	Suspected of causing cancer. [ZXAA only]
H360F	May damage fertility. [ZXAA only]
H372	Causes damage to organs through prolonged or repeated exposure. (Lungs / Inhalation.)
H400	Very toxic to aquatic life. [ZXAA only]
H410	Very toxic to aquatic life with long lasting effects. [ZXAA only]
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects. [ZXAAA only]

General information

Other information	This consolidated safety data sheet covers both product variants listed above. It is based on current knowledge and information provided by the supplier at the time of preparation. The SDS complies with applicable law on preparation of safety data sheets in accordance with Regulation 1907/2006/EC (REACH) as amended by UK REACH etc. (EU Exit).
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.

SDS prepared by

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