

Safety Data Sheet

Li-Ion battery from Coast

Issued: 22/08/2024
Version: 1.0.0

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

1.1. Product identifier

Trade name: Li-Ion battery from Coast

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:

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May cause an allergic skin reaction.
Fatal if inhaled.
May cause cancer by inhalation.
May damage fertility.
Causes 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 manganese nickel oxide | 182442-95-1 695-690-9 | 0 - 40.2 % | | 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 | 0 - 32 % | | Repr. 1B;H360F Aquatic Acute 1;H400 Aquatic Chronic 1;H410 |
| granulated copper | 7440-50-8 231-159-6 | 7 - 8.39 % | | Aquatic Chronic 2;H411 |
| propylene carbonate | 108-32-7 203-572-1 | 0 - 7.9 % | | Eye Irrit. 2;H319 |
| nickel | 7440-02-0 231-111-4 | 0 - 1.16 % | | Skin Sens. 1;H317 Carc. 2;H351 STOT RE 1;H372 |

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

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

Fatal if inhaled.

May cause cancer by inhalation.

May damage fertility.

Causes 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 ³ | fiber/cm ³ | Remarks | Comments |
|----------------|-------------|-----|-------------------|-----------------------|---------|----------|
| Carbon black | 8h | | 3.5 | | | |
| Carbon black | 15m | | 7 | | | |

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 166/16321.

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 | |
| Freezing point | No data | |
| Initial boiling point and boiling range | No data | |
| Flammability (solid, gas) | No data | |
| Flammability limits | No data | |

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| | | |
|---------------------------------------|---------|--|
| 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

| 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.

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| | |
|---|---|
| Acute toxicity - dermal: | The product does not have to be classified. Test data are not available. |
| Acute toxicity - inhalation: | Fatal if inhaled. |
| 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: | May cause cancer by inhalation. |
| Reproductive toxicity: | May damage fertility. |
| Single STOT exposure: | The product does not have to be classified. Test data are not available. |
| Repeated STOT exposure: | Causes 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.

12.7. Other adverse effects

None known.

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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)

| | | | |
|--|--|-------------------------------------|--|
| 14.1. UN number or ID number: | 3480 | 14.4. Packing group: | |
| 14.2. UN proper shipping name: | LITHIUM ION BATTERIES | 14.5. Environmental hazards: | The product should not be labelled as an environmental hazard (symbol: fish and tree). |
| 14.3. Transport hazard class(es): | 9 | Tunnel restriction code: | |
| Hazard label(s): | LITH | | |
| Hazard identification number: | | | |
| Other Information: | 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)

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

Sea transport (IMDG)

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

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Air transport (ICAO-TI / IATA-DGR)

| | | |
|---|-------------------------------------|--|
| 14.1. UN number or ID number: 3480 | 14.4. Packing group: | The product should not be labelled as an environmental hazard (symbol: fish and tree). |
| 14.2. UN proper shipping name: LITHIUM ION BATTERIES | 14.5. Environmental hazards: | |
| 14.3. Transport hazard class(es): 9 | Other Information: | The battery meets the required packing instruction 965 Section II, so that it is not to be transported as fully regulated dangerous goods. |
| Hazard label(s): 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 |
|---------|---------------|------------------|---------|
| 1.0.0 | 22/08/2024 | 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

H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H330 Fatal if inhaled.

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| | |
|-------|--|
| H350i | May cause cancer by inhalation. |
| H351 | Suspected of causing cancer. |
| H360F | May damage fertility. |
| H372 | Causes damage to organs through prolonged or repeated exposure. (Lungs.) (Inhalation.) |
| 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. |
| H412 | Harmful to aquatic life with long lasting effects. |

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

SDS is prepared by

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