SAFETY DATA SHEET

Li-ion battery pack (Model: BAX1500), 56V, 28Ah, (MAX) 1568Wh

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

1.1 Product identifier

Product name: Li-ion battery pack (Model: BAX1500), 56V, 28Ah, (MAX) 1568Wh
Product code: Not available.
Product description: This product is non-hazardous for workers under normal conditions of use. This SDS is written based on a possible contact of the user with the inner electrolyte solution contained in the battery, in the course of a misuse or an accident.
Product type: Solid.
Other means of identification: Not available.

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

Identified uses: Not available.

1.3 Details of the supplier of the safety data sheet

Supplier's details: EGO Europe GmbH
Wahlwiesenstrasse 1, 71711 Steinheim an der Murr, Germany
Tel: 0044 1494 957 514
Fax: 0049 7144 8875497

E-mail address of person responsible for this SDS: Joerg.bauerle@egopowerplus.eu

1.4 Emergency telephone number

Emergency telephone number (with hours of operation): 0044 1235 239 670
24/7

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition: Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]
Not classified.

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Signal word: No signal word.
Hazard statements: No known significant effects or critical hazards.
Precautionary statements
SECTION 2: Hazards identification

Prevention : Not applicable.
Response : Not applicable.
Storage : Not applicable.
Disposal : Not applicable.

Supplemental label elements : Contains Cobalt lithium dioxide. May produce an allergic reaction. Safety data sheet available on request.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

Special packaging requirements
Containers to be fitted with child-resistant fastenings : Not applicable.
Tactile warning of danger : Not applicable.

2.3 Other hazards
Other hazards which do not result in classification : None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Identifiers</th>
<th>%</th>
<th>Regulation (EC) No. 1272/2008 [CLP]</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cobalt lithium dioxide</td>
<td>EC: 235-362-0</td>
<td>≥50 - ≤75</td>
<td>Skin Sens. 1, H317, Carc. 1B, H350</td>
<td>[1]</td>
</tr>
<tr>
<td></td>
<td>CAS: 12190-79-3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Natural graphite</td>
<td>EC: 231-955-3</td>
<td>≥25 - ≤50</td>
<td>Not classified.</td>
<td>[2]</td>
</tr>
<tr>
<td></td>
<td>CAS: 7782-42-5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CAS: 96-49-1</td>
<td></td>
<td>STOT RE 2, H373, Eye Irrit. 2, H319</td>
<td>[1]</td>
</tr>
<tr>
<td>Propylene carbonate</td>
<td>EC: 203-572-1</td>
<td>≥10 - ≤25</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CAS: 108-32-7</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Index: 607-194-00-1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Copper</td>
<td>EC: 231-159-6</td>
<td>≥10 - ≤25</td>
<td>Not classified.</td>
<td>[2]</td>
</tr>
<tr>
<td></td>
<td>CAS: 7440-50-8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CAS: 7429-90-5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Index: 013-002-00-1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lithium hexafluorophosphate</td>
<td>EC: 244-334-7</td>
<td>≥5 - ≤10</td>
<td>Acute Tox. 3, H301, Skin Corr. 1A, H314, Eye Dam. 1, H318, STOT RE 1, H372</td>
<td>[1]</td>
</tr>
<tr>
<td></td>
<td>CAS: 21324-40-3</td>
<td></td>
<td>See Section 16 for the full text of the H statements declared above.</td>
<td></td>
</tr>
</tbody>
</table>

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

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

[1] Substance classified with a health or environmental hazard  
[2] Substance with a workplace exposure limit  
[5] Substance of equivalent concern  
[6] Additional disclosure due to company policy  

Occupational exposure limits, if available, are listed in Section 8.

**SECTION 4: First aid measures**

4.1 Description of first aid measures

**Eye contact**
- Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

**Inhalation**
- Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

**Skin contact**
- Flush contaminated skin with plenty of water. Get medical attention if symptoms occur.

**Ingestion**
- Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

**Protection of first-aiders**
- No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

**Over-exposure signs/symptoms**

- **Eye contact**: No known significant effects or critical hazards.
- **Inhalation**: No known significant effects or critical hazards.
- **Skin contact**: No known significant effects or critical hazards.
- **Ingestion**: No known significant effects or critical hazards.

4.3 Indication of any immediate medical attention and special treatment needed

**Notes to physician**
- Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments**
- No specific treatment.

**SECTION 5: Firefighting measures**

5.1 Extinguishing media

- **Suitable extinguishing media**: Use dry chemical, CO₂ or foam.
- **Unsuitable extinguishing media**: None known.

5.2 Special hazards arising from the substance or mixture

- **Hazard from the substance or mixture**: No specific fire or explosion hazard.

Li-ion battery pack (Model: BAX1500), 56V, 28Ah, (MAX) 1568Wh

SECTION 5: Firefighting measures

Hazardous combustion products: Decomposition products may include the following materials:
- carbon dioxide
- carbon monoxide
- phosphorus oxides
- halogenated compounds
- metal oxide/oxides

5.3 Advice for firefighters

Special protective actions for fire-fighters: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

Small spill: Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.

Large spill: Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other sections: See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.
SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures

Advice on general occupational hygiene: Put on appropriate personal protective equipment (see Section 8).

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations

Industrial sector specific solutions: Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Exposure limit values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural graphite</td>
<td>TRGS 900 OEL (Germany, 11/2016).</td>
</tr>
<tr>
<td></td>
<td>TWA: 1.25 mg/m³ 8 hours. Form: Alveolar fraction</td>
</tr>
<tr>
<td></td>
<td>PEAK: 2.5 mg/m³ 15 minutes. Form: Alveolar fraction</td>
</tr>
<tr>
<td></td>
<td>PEAK: 20 mg/m³ 15 minutes. Form: Inhalable fraction</td>
</tr>
<tr>
<td></td>
<td>TWA: 10 mg/m³ 8 hours. Form: Inhalable fraction</td>
</tr>
<tr>
<td></td>
<td>DFG MAC-values list (Germany, 7/2015).</td>
</tr>
<tr>
<td></td>
<td>TWA: 4 mg/m³ 8 hours. Form: Inhalable fraction</td>
</tr>
<tr>
<td></td>
<td>TWA: 1.5 mg/m³ 8 hours. Form: Respirable fraction</td>
</tr>
<tr>
<td>Copper</td>
<td>DFG MAC-values list (Germany, 7/2015).</td>
</tr>
<tr>
<td></td>
<td>PEAK: 0.02 mg/m³, 4 times per shift, 15 minutes. Form: Respirable fraction</td>
</tr>
<tr>
<td></td>
<td>TWA: 0.01 mg/m³ 8 hours. Form: Respirable fraction</td>
</tr>
<tr>
<td>Aluminium powder (stabilized)</td>
<td>TRGS 900 OEL (Germany, 11/2016).</td>
</tr>
<tr>
<td></td>
<td>TWA: 1.25 mg/m³ 8 hours. Form: Alveolar fraction</td>
</tr>
<tr>
<td></td>
<td>PEAK: 2.5 mg/m³ 15 minutes. Form: Alveolar fraction</td>
</tr>
<tr>
<td></td>
<td>PEAK: 20 mg/m³ 15 minutes. Form: Inhalable fraction</td>
</tr>
<tr>
<td></td>
<td>TWA: 10 mg/m³ 8 hours. Form: Inhalable fraction</td>
</tr>
<tr>
<td></td>
<td>DFG MAC-values list (Germany, 7/2015).</td>
</tr>
<tr>
<td></td>
<td>TWA: 4 mg/m³ 8 hours. Form: Inhalable dust.</td>
</tr>
<tr>
<td></td>
<td>TWA: 1.5 mg/m³ 8 hours. Form: Respirable dust</td>
</tr>
</tbody>
</table>
Li-ion battery pack (Model: BAX1500), 56V, 28Ah, (MAX) 1568Wh

SECTION 8: Exposure controls/personal protection

Recommended monitoring procedures: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs
No DNELs/DMELs available.

PNECs
No PNECs available.

8.2 Exposure controls

Appropriate engineering controls: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.
SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

**Appearance**
- **Physical state**: Solid. [Battery pack.]
- **Colour**: Gray plastics cement shell.
- **Odour**: Odourless.
- **Odour threshold**: Not available.
- **pH**: Not available.
- **Melting point/freezing point**: >300°C
- **Initial boiling point and boiling range**: Not available.
- **Flash point**: Not available.
- **Evaporation rate**: Not available.
- **Flammability (solid, gas)**: Extremely flammable in the presence of the following materials or conditions: heat.
- **Upper/lower flammability or explosive limits**: Not available.
- **Vapour pressure**: Not available.
- **Vapour density**: Not available.
- **Relative density**: Not available.
- **Solubility(ies)**: Partially soluble in the following materials: cold water and hot water.
- **Partition coefficient: n-octanol/water**: Not available.
- **Auto-ignition temperature**: Not available.
- **Decomposition temperature**: Not available.
- **Viscosity**: Not available.
- **Explosive properties**: Extremely explosive in the presence of the following materials or conditions: heat.
- **Oxidising properties**: Not available.

9.2 Other information
- **Solubility in water**: Not available.

SECTION 10: Stability and reactivity

10.1 Reactivity
- No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability
- The product is stable.

10.3 Possibility of hazardous reactions
- Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid
- Keep away from heat and flame.

10.5 Incompatible materials
- Strong oxidizing agents. Corrosives.

10.6 Hazardous decomposition products
- Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene carbonate</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>10 g/kg</td>
<td>-</td>
</tr>
<tr>
<td>Propylene carbonate</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>&gt;5000 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

Irritation/Corrosion

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Score</th>
<th>Exposure</th>
<th>Observation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene carbonate</td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>660 mg</td>
<td>-</td>
</tr>
<tr>
<td>Propylene carbonate</td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>60 mg</td>
<td>-</td>
</tr>
</tbody>
</table>

Sensitisation

There is no data available.

Mutagenicity

There is no data available.

Carcinogenicity

There is no data available.

Reproductive toxicity

There is no data available.

Teratogenicity

There is no data available.

Specific target organ toxicity (single exposure)

There is no data available.

Specific target organ toxicity (repeated exposure)

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Category</th>
<th>Target organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene carbonate</td>
<td>Category 2</td>
<td>Not determined</td>
</tr>
<tr>
<td>Lithium hexafluorophosphate</td>
<td>Category 1</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

Aspiration hazard

There is no data available.

Information on likely routes of exposure:

Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

- Eye contact: No known significant effects or critical hazards.
- Inhalation: No known significant effects or critical hazards.
- Skin contact: No known significant effects or critical hazards.
- Ingestion: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact: No known significant effects or critical hazards.
- Inhalation: No known significant effects or critical hazards.
- Skin contact: No known significant effects or critical hazards.
- Ingestion: No known significant effects or critical hazards.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Tel : +1-888-GHS-7769 (447-7769) / +1-450-GHS-7767 (447-7767)
SECTION 11: Toxicological information

Potential immediate effects: No known significant effects or critical hazards.
Potential delayed effects: No known significant effects or critical hazards.
Long term exposure
Potential immediate effects: No known significant effects or critical hazards.
Potential delayed effects: No known significant effects or critical hazards.
Potential chronic health effects
General: No known significant effects or critical hazards.
Carcinogenicity: No known significant effects or critical hazards.
Mutagenicity: No known significant effects or critical hazards.
Teratogenicity: No known significant effects or critical hazards.
Developmental effects: No known significant effects or critical hazards.
Fertility effects: No known significant effects or critical hazards.

Other information: Not available.

SECTION 12: Ecological information

12.1 Toxicity
There is no data available.

12.2 Persistence and degradability
There is no data available.

12.3 Bioaccumulative potential

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>LogPow</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cobalt lithium dioxide</td>
<td>-</td>
<td>15600</td>
<td>high</td>
</tr>
<tr>
<td>Ethylene carbonate</td>
<td>0.11</td>
<td></td>
<td>low</td>
</tr>
<tr>
<td>Propylene carbonate</td>
<td>-0.41</td>
<td></td>
<td>low</td>
</tr>
</tbody>
</table>

12.4 Mobility in soil

Soil/water partition coefficient (KOC): Not available.
Mobility: Not available.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.

12.6 Other adverse effects
No known significant effects or critical hazards.

Li-ion battery pack (Model: BAX1500), 56V, 28Ah, (MAX) 1568Wh

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

Packaging

Methods of disposal: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions: This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

<table>
<thead>
<tr>
<th>14.1 UN number</th>
<th>ADR/RID</th>
<th>ADN</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN3480</td>
<td></td>
<td></td>
<td></td>
<td>UN3480</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14.2 UN proper shipping name</th>
<th>LITHIUM ION BATTERIES (including lithium ion polymer batteries)</th>
<th>LITHIUM ION BATTERIES (including lithium ion polymer batteries)</th>
<th>LITHIUM ION BATTERIES (including lithium ion polymer batteries)</th>
<th>LITHIUM ION BATTERIES (including lithium ion polymer batteries)</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.3 Transport hazard class(es)</td>
<td>9</td>
<td>9</td>
<td>9</td>
<td>9</td>
</tr>
<tr>
<td>14.4 Packing group</td>
<td>II</td>
<td>II</td>
<td>II</td>
<td>II</td>
</tr>
<tr>
<td>14.5 Environmental hazards</td>
<td>No.</td>
<td>No.</td>
<td>No.</td>
<td>No.</td>
</tr>
</tbody>
</table>

14.6 Special precautions for user: **Transport within user’s premises**: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code: Not available.

Tel : +1-888-GHS-7769 (447-7769) / +1-450-GHS-7767 (447-7767)
SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

: Not applicable.

Other EU regulations

Industrial emissions (integrated pollution prevention and control) - Air

: Listed

Industrial emissions (integrated pollution prevention and control) - Water

: Listed

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

National regulations

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>List name</th>
<th>Name on list</th>
<th>Classification</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cobalt lithium dioxide</td>
<td>Germany TRGS905</td>
<td>Cobalt-Verbindungen (bioverfügbar, in Form atembarer Stäube/Aerosole), ausge-nommen die in dieser Liste bzw. in Anhang VI Teil 3 der CLP-Verordnung namentlich aufgeführten Cobaltverbindungen, Cobalt-haltigen Spinellen und organischen Cobalt-Sikkativen</td>
<td>K3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>DFG MAC-values list</td>
<td>Cobalt and cobalt compounds (inhalable fraction)</td>
<td>K2, M3</td>
<td></td>
</tr>
<tr>
<td>Copper</td>
<td>DFG MAC-values list</td>
<td>Copper and its inorganic compounds</td>
<td>Listed</td>
<td></td>
</tr>
<tr>
<td>Aluminium powder (stabilized)</td>
<td>DFG MAC-values list</td>
<td>Aluminium, Aluminium oxide and Aluminium hydroxide, containing dusts (inhalable fraction) / (respirable fraction)</td>
<td>Listed</td>
<td></td>
</tr>
</tbody>
</table>

Storage class (TRGS 510): 13

Hazard class for water: 3

Li-ion battery pack (Model: BAX1500), 56V, 28Ah, (MAX) 1568Wh

SECTION 15: Regulatory information

Technical instruction on air quality control: TA-Luft Number 5.2.1: 66%
 TA-Luft Number 5.2.5: 60%
 TA-Luft Class II - Number 5.2.2: 50%
 TA-Luft Class III - Number 5.2.2: 15%

AOX: The product does not contain organically bound halogens which could lead to an AOX value in waste water.

15.2 Chemical safety assessment: This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Abbreviations and acronyms: ATE = Acute Toxicity Estimate
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
 DMEL = Derived Minimal Effect Level
 DNEL = Derived No Effect Level
 EUH statement = CLP-specific Hazard statement
 PBT = Persistent, Bioaccumulative and Toxic
 PNEC = Predicted No Effect Concentration
 RRN = REACH Registration Number
 vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

<table>
<thead>
<tr>
<th>Classification</th>
<th>Justification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not classified.</td>
<td></td>
</tr>
</tbody>
</table>

Full text of abbreviated H statements

- **H228**: In contact with water releases flammable gases.
- **H261**: Toxic if swallowed.
- **H301**: Harmful if swallowed.
- **H314**: Causes severe skin burns and eye damage.
- **H317**: May cause an allergic skin reaction.
- **H318**: Causes serious eye damage.
- **H319**: Causes serious eye irritation.
- **H350**: May cause cancer.
- **H372**: Causes damage to organs through prolonged or repeated exposure.
- **H373**: May cause damage to organs through prolonged or repeated exposure.

Full text of classifications [CLP/GHS]

<table>
<thead>
<tr>
<th>Acute Tox. 3, H301</th>
<th>ACUTE TOXICITY (oral) - Category 3</th>
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</thead>
<tbody>
<tr>
<td>Acute Tox. 4, H302</td>
<td>ACUTE TOXICITY (oral) - Category 4</td>
</tr>
<tr>
<td>Carc. 1B, H350</td>
<td>CARCINOGENICITY - Category 1B</td>
</tr>
<tr>
<td>Eye Dam. 1, H318</td>
<td>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1</td>
</tr>
<tr>
<td>Eye Irrit. 2, H319</td>
<td>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2</td>
</tr>
<tr>
<td>Flam. Sol. 1, H228</td>
<td>FLAMMABLE SOLIDS - Category 1</td>
</tr>
<tr>
<td>Skin Corr. 1A, H314</td>
<td>SKIN CORROSION/IRRITATION - Category 1A</td>
</tr>
<tr>
<td>Skin Sens. 1, H317</td>
<td>SKIN SENSITISATION - Category 1</td>
</tr>
<tr>
<td>STOT RE 1, H372</td>
<td>SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1</td>
</tr>
<tr>
<td>STOT RE 2, H373</td>
<td>SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2</td>
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<tr>
<td>History</td>
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<tr>
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</tr>
<tr>
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<td>Version</td>
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</tr>
<tr>
<td>Prepared by</td>
<td>KMK Regulatory Services Inc.</td>
</tr>
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