

Design Report of Safety Data Sheet

正本/ORIGINAL

| | | |
|---|--|--------------|
| *Product Name: | Energy storage system GM215kWh-100kW-2h | |
| *Applicant: | FOXESS CO., LTD. | |
| Supplier: | FOXESS CO., LTD. | |
| *Composition of the product: | Ferrous Lithium Phosphate(CAS: 15365-14-7): 30%; Electrolyte(CAS: 21324-40-3): 24.1%; Copper(CAS: 7440-50-8): 16.1%; Carbon(CAS: 7782-42-5): 13.5%; Aluminium(CAS: 7429-90-5): 6.9%; Details on the next page | |
| Warranty of Design: | GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS) Tenth revised edition | |
| *Information materials: | HGBZ2404MWD 《Application》、P124302 《Declaration of consistency of components of the sample submitted for inspection》、P124302 《UN 38.3》、P124302-Product Picture | |
| Design Result of SDS please see next page. | | |
| Designer: 马茹 | Auditor: 江帆 | Approver: 戎霄 |
| 常州合規思远产品安全技术服务有限公司 Changzhou Hegui Siyuan Products Safety Technology Service Co., Ltd. | | |

Notes: This SDS is valid before the implementation of the eleventh revised edition GHS.



Contd. of Prev. page: Complete sample component information.

| | |
|-------------------------------------|--|
| *Composition of the product: | Ferrous Lithium Phosphate(CAS: 15365-14-7): 30%; Electrolyte(CAS: 21324-40-3): 24.1%; Copper(CAS: 7440-50-8): 16.1%; Carbon(CAS: 7782-42-5): 13.5%; Aluminum(CAS: 7429-90-5): 6.9%; Alufer(CAS: 7429-90-5): 5.5%; Septum(CAS: 9003-07-0): 3.9% |
|-------------------------------------|--|

报告专用章



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Safety Data Sheet

Energy storage system

GM215kWh-100kW-2h

Version : V2.0.0.1

Report No. : HGBZ2404MWD2

Creation Date : 2024/04/12

Revision Date : -

*According to GHS (Tenth Revised Edition)

1 Identification

Product identifier

| | |
|-------------------|---|
| Product Name | Energy storage system GM215kWh-100kW-2h |
| Product Model | GM215kWh-100kW-2h |
| CAS No. | Not applicable |
| EC No. | Not applicable |
| Molecular Formula | Not applicable |
| Product Picture |  |

Recommended use of the product and restrictions on use

| | |
|--------------------------|------------------------------|
| Relevant identified uses | Please consult manufacturer. |
| Uses advised against | Please consult manufacturer. |

Details of the supplier

| | |
|---------------------|--|
| Applicant Name | FOXESS CO., LTD. |
| Applicant Address | No.939, Jinhai Third Road, New Airport Industry Area, Longwan District, Wenzhou, Zhejiang, China |
| Applicant Post Code | 325025 |
| Applicant Telephone | 0510-68092998 |
| Applicant Fax | - |
| Applicant E-mail | foxrd@fox-ess.com |
| Supplier Name | FOXESS CO., LTD. |
| Supplier Address | No.939, Jinhai Third Road, New Airport Industry Area, Longwan District, Wenzhou, Zhejiang, China |
| Supplier Post Code | 325025 |
| Supplier Telephone | 0510-68092998 |
| Supplier Fax | - |
| Supplier E-mail | foxrd@fox-ess.com |

Emergency phone number

| | |
|------------------------|---------------|
| Emergency phone number | 0510-68092998 |
|------------------------|---------------|

2 Hazard(s) identification**Hazard classification according to GHS**

The product meets the definition of "article". In the Globally Harmonized Chemical Classification and Labeling System (GHS), the "articles" defined by the US Occupational Safety and Health Administration "Hazard Communication Standard" (29 CFR 1910.1200) or similar definitions do not fall within the scope of this system. [Rev.10 (2023) Part 1.3.2.1.1].According to GHS system (10th revised edition), not classified as a hazardous chemical.

GHS Label elements

| | |
|-------------------|----------------|
| Hazard pictograms | Not applicable |
| Signal word | Not applicable |

Hazard statements

| | |
|-------------------|----------------|
| Hazard statements | Not applicable |
|-------------------|----------------|

Precautionary statements

◆ Prevention

| | |
|------------|----------------|
| Prevention | Not applicable |
|------------|----------------|

◆ Response

| | |
|----------|----------------|
| Response | Not applicable |
|----------|----------------|

◆ Storage

| | |
|---------|----------------|
| Storage | Not applicable |
|---------|----------------|

◆ Disposal

| | |
|----------|----------------|
| Disposal | Not applicable |
|----------|----------------|

Hazard description

◆ Physical and chemical hazards

| | |
|--|---|
| | When the outer enclosure and safety circuits have been compromised or have been significantly damaged, it is likely to contain substantial electrical charge and can cause injury or death if mishandled. Mechanical damage can lead to danger. Battery products exposed to high temperature conditions, may produce heat out of control, causing fire. |
|--|---|

◆ Health hazards

| | |
|--------------|---|
| Inhaled | According to the material form, it is not the normal way of contacting. |
| Ingestion | Accidental ingestion of the product may be harmful to the health of the individual. |
| Skin Contact | No harm in general situation. |
| Eye | This product may cause temporary discomfort following direct contact with the eye. |

◆ Environmental hazards

| | |
|--|--------------------------------------|
| | Please refer to 12th chapter of SDS. |
|--|--------------------------------------|

3 Composition/information on ingredients**Substance/mixture**

| | |
|--|---------|
| | Mixture |
|--|---------|

| Component | CAS No. | EC No. | Concentration (Volume or weight percent, %) |
|----------------------------------|------------|-----------|---|
| Ferrous Lithium Phosphate | 15365-14-7 | 604-917-2 | 30 |
| Electrolyte | 21324-40-3 | 244-334-7 | 24.1 |
| Copper | 7440-50-8 | 231-159-6 | 16.1 |
| Carbon | 7782-42-5 | 231-955-3 | 13.5 |
| Aluminium | 7429-90-5 | 231-072-3 | 6.9 |
| Alufer | 7429-90-5 | 231-072-3 | 5.5 |
| Septum | 9003-07-0 | 618-352-4 | 3.9 |

4 First-aid measures

Description of first aid measures

| | |
|-----------------------------------|--|
| General advice | Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance. |
| Eye contact | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable. |
| Skin contact | No harm in general situation. First aid is not needed. |
| Ingestion | Never give anything by mouth to an unconscious person. Call a physician immediately. |
| Inhalation | Move victim into fresh air. If breathing is difficult, give oxygen and consult a physician immediately. |
| Protecting of first-aiders | Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination. |

Most important symptoms/effects, acute and delayed

| | |
|---|------------------------|
| 1 | Please see section 11. |
|---|------------------------|

Indication of any immediate medical attention and special treatment needed

| | |
|---|--------------------------|
| 1 | Treat symptomatically. |
| 2 | Symptoms may be delayed. |

5 Fire-fighting measures

Extinguishing media

| | |
|---------------------------------------|---|
| Suitable extinguishing media | Please use lithium battery fire extinguisher. |
| Unsuitable extinguishing media | No information available. |

Specific hazards arising from the substance or mixture

| | |
|---|---|
| 1 | Development of hazardous combustion gases or vapor possible in the event of fire. |
| 2 | May expansion or decompose explosively when heated or involved in fire. |

Special protective equipment and precautions for fire-fighters

| | |
|---|--|
| 1 | As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear. |
| 2 | Fight fire from a safe distance, with adequate cover. |

- | | |
|---|---|
| 3 | Prevent fire extinguishing water from contaminating surface water or the ground water system. |
|---|---|

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

- | | |
|---|---|
| 1 | Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges. |
| 2 | Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. |
| 3 | Use personal protective equipment, do not breathe dust/fume. |

Environmental precautions

- | | |
|---|---|
| 1 | Prevent further leakage or spillage if safe to do so. |
| 2 | Discharge into the environment must be avoided. |

Methods and materials for containment and cleaning up

- | | |
|---|---|
| 1 | Cut off the source of the leak as much as possible. |
| 2 | Keep leaks in a ventilated place. |
| 3 | Isolation of contaminated areas and restrictions on access. |
| 4 | It is recommended that emergency personnel wear dust masks. |
| 5 | Collect the spill with a clean shovel and place it in a clean, dry, loosely closed container and move the container away from the leak. |
| 6 | Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations. |

7 Handling and storage

Precautions for safe handling

- | | |
|---|---|
| 1 | Handling is performed in a well ventilated place. |
| 2 | Wear suitable protective equipment. |
| 3 | Avoid contact with skin and eyes. |
| 4 | Keep away from heat/sparks/open flames/ hot surfaces. |

Conditions for safe storage, including any incompatibilities

- | | |
|---|--|
| 1 | Keep containers tightly closed. |
| 2 | Keep containers in a dry, cool and well-ventilated place. |
| 3 | Keep away from heat/sparks/open flames/hot surfaces. |
| 4 | Store away from incompatible materials and foodstuff containers. |

8 Exposure controls/personal protection

Control parameters

| Component | Country/Region | Limit value - Eight hours | | Limit value - Short term | |
|-----------|-----------------|---------------------------|-------------------|--------------------------|-------------------|
| | | ppm | mg/m ³ | ppm | mg/m ³ |
| Copper | The Netherlands | - | 0.1 | - | - |
| | Poland | - | 0.2 | - | - |
| | Latvia | - | 0.5 | - | 1 |
| | Germany (DFG) | - | 0.01 | - | 0.02 |

| | | | | | |
|------------------|---------------|---|-------|---|----|
| Carbon | USA - OSHA | - | 15 | - | - |
| | South Korea | - | 2 | - | - |
| | Ireland | - | 10 | - | - |
| | Germany (DFG) | - | 4 | - | - |
| | Denmark | - | 2.5 | - | 5 |
| | Australia | - | 3 (4) | - | - |
| | USA-ACGIH | - | 2 | - | - |
| Aluminium | USA - OSHA | - | 15 | - | - |
| | South Korea | - | 10 | - | - |
| | Ireland | - | 1 | - | - |
| | Germany (DFG) | - | 4 | - | - |
| | Denmark | - | 5 | - | 10 |
| | Australia | - | 10 | - | - |
| | USA-ACGIH | - | 1 | - | - |
| Alufer | USA - OSHA | - | 15 | - | - |
| | South Korea | - | 10 | - | - |
| | Ireland | - | 1 | - | - |
| | Germany (DFG) | - | 4 | - | - |
| | Denmark | - | 5 | - | 10 |
| | Australia | - | 10 | - | - |
| | USA-ACGIH | - | 1 | - | - |

◆ Biological limit values

| Component | Standard | Biological monitoring index | Biological limits value | Sampling time | Remark |
|--------------------|-----------|-----------------------------|-------------------------|---------------|--------|
| Electrolyte | SCOEL(EU) | Fluorine/urine | 8mg/L | end of shift | |

◆ Monitoring methods

| | |
|---|---|
| 1 | EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. |
| 2 | GBZ/T 300 series standard Determination of toxic substances in workplace air. |

| **Engineering controls**

| | |
|---|--|
| 1 | Ensure adequate ventilation, especially in confined areas. |
| 2 | Ensure that eyewash stations and safety showers are close to the workstation location. |
| 3 | Set up emergency exit and necessary risk-elimination area. |
| 4 | Handle in accordance with good industrial hygiene and safety practice. |

| **Personal protection equipment**

| | |
|----------------------------|---|
| General requirement | No special requirements, please see the description below. |
| Eye protection | In general situation, eye protection is not needed. In the production process, when contacting with vapour or dust, tightly fitting safety goggles. |

| | |
|---------------------------------|---|
| Hand protection | In general situation, hand protection is not needed. |
| Respiratory protection | In general situation, respiratory protection is not needed. If exposure limits are exceeded or if irritation or other symptoms are experienced, wear dust proof mask or gas defence mask. |
| Skin and body protection | In general situation, skin and body protection are not needed. |

9 Physical and chemical properties

Physical and chemical properties

| | |
|--|---|
| Physical state | Solid |
| Colour | No information available |
| Odor | No special odor |
| Odor threshold | No information available |
| pH | No information available |
| Melting point/freezing point(°C) | No information available |
| Initial boiling point and boiling range(°C) | No information available |
| Flash point(Closed cup,°C) | Not applicable |
| Evaporation rate | Not applicable |
| Flammability | Not flammable |
| Upper/lower explosive limits[% (v/v)] | Upper limit : No information available ; Lower limit : No information available |
| Vapor pressure | Not applicable |
| Relative vapour density(Air = 1) | Not applicable |
| Relative density(Water=1) | No information available |
| Solubility | Insoluble in water |
| n-octanol/water partition coefficient | No information available |
| Auto-ignition temperature(°C) | No information available |
| Decomposition temperature(°C) | No information available |
| Kinematic viscosity | Not applicable |
| Particle characteristics | No information available |

10 Stability and reactivity

Stability and reactivity

| | |
|---|--|
| Reactivity | Contact with incompatible substances can cause decomposition or other chemical reactions. |
| Chemical stability | Stable under proper operation and storage conditions. |
| Possibility of hazardous reactions | No information available. |
| Conditions to avoid | Incompatible materials, heat, flame and spark. |
| Incompatible materials | Oxidants, halogen, interhalogen and mercury. |
| Hazardous decomposition products | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

11 Toxicological information

Acute toxicity

| | |
|----------------|--------------------------|
| Acute toxicity | No information available |
|----------------|--------------------------|

Carcinogenicity

| Component | List of carcinogens by the IARC Monographs | Report on Carcinogens by NTP |
|---------------------------|--|------------------------------|
| Ferrous Lithium Phosphate | Not Listed | Not Listed |
| Electrolyte | Not Listed | Not Listed |
| Copper | Not Listed | Not Listed |
| Carbon | Not Listed | Not Listed |
| Aluminium | Not Listed | Not Listed |
| Alufer | Not Listed | Not Listed |
| Septum | Category 3 | Not Listed |

Others

| Energy storage system GM215kWh-100kW-2h | |
|---|--|
| Skin corrosion/irritation | Based on available data, the classification criteria are not met |
| Serious eye damage/irritation | Based on available data, the classification criteria are not met |
| Skin sensitization | Based on available data, the classification criteria are not met |
| Respiratory sensitization | Based on available data, the classification criteria are not met |
| Reproductive toxicity | Based on available data, the classification criteria are not met |
| STOT-single exposure | Based on available data, the classification criteria are not met |
| STOT-repeated exposure | Based on available data, the classification criteria are not met |
| Aspiration hazard | Based on available data, the classification criteria are not met |
| Germ cell mutagenicity | Based on available data, the classification criteria are not met |

12 Ecological information

Acute aquatic toxicity

| Component | Fish | Crustaceans | Algae |
|---------------------------|---|--|---|
| Copper | LC ₅₀ : 0.665mg/L (96h)(Fish) | EC ₅₀ : 0.02mg/L (48h)(Daphnia magna) | ErC ₅₀ : 7.9mg/L (96h)(Freshwater algae) |
| Ferrous Lithium Phosphate | LC ₅₀ : > 28mg/L (96h)(Fresh water fish) | EC ₅₀ : > 28mg/L (48h)(Aquatic invertebrates) | ErC ₅₀ : > 24mg/L (72h)(Algae) |
| Alufer | LC ₅₀ : 1.55mg/L (96h)(Fish) | No information available | No information available |
| Aluminium | LC ₅₀ : 1.55mg/L (96h)(Fish) | No information available | No information available |
| Electrolyte | LC ₅₀ : 68mg/L (96h)(Fresh water fish) | No information available | No information available |
| Carbon | LC ₅₀ : 100mg/L (96h)(Fresh water fish) | No information available | No information available |

Chronic aquatic toxicity

| Component | Fish | Crustaceans | Algae |
|-------------|----------------------|--------------------------|--------------------------|
| Electrolyte | NOEC : 3.1mg/L(Fish) | No information available | No information available |

Persistence and degradability

| Component | Persistence (water/soil) | Persistence (air) |
|-----------|--------------------------|-------------------|
| Carbon | Low | Low |
| Septum | Low | Low |

Bioaccumulative potential

| Component | Bioaccumulative potential | Comments |
|-----------|---------------------------|----------------|
| Carbon | Low | Log Kow=0.5294 |
| Septum | Low | Log Kow=1.6783 |

Mobility in soil

| Component | Mobility in soil | Soil Organic Carbon-Water Partitioning Coefficient (Koc) |
|-----------|------------------|--|
| Carbon | Low | 23.74 |
| Septum | Low | 23.74 |

Results of PBT and vPvB assessment

| Component | Results of PBT and vPvB assessment [according to (EC) No 1907/2006] |
|---------------------------|---|
| Ferrous Lithium Phosphate | No information available |
| Electrolyte | Not applicable |
| Copper | Not applicable |
| Carbon | Not applicable |
| Aluminium | Not applicable |
| Alufer | Not applicable |
| Septum | No information available |

13 Disposal considerations**Disposal considerations**

| | |
|--------------------------|--|
| Waste chemicals | Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal. |
| Contaminated packaging | Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible. |
| Disposal recommendations | Refer to section waste chemicals and contaminated packaging. |

14 Transport information**Label**

| | |
|--------------------|---|
| Transporting Label |  |
|--------------------|---|

IMDG-CODE

| | |
|-----------------------------------|--|
| UN number | 3480 |
| UN proper shipping name | LITHIUM ION BATTERIES (including lithium ion polymer batteries) |
| Transport hazard class | 9 |
| Transport subsidiary hazard class | None |
| Packing group | Packagings shall conform to the packing group II performance level |
| Marine pollutant (Yes or no) | No |

ICAO/IATA-DGR

| | |
|-----------------------------------|--|
| UN number | 3480 |
| UN proper shipping name | LITHIUM ION BATTERIES (including lithium ion polymer batteries) |
| Transport hazard class | 9 |
| Transport subsidiary hazard class | None |
| Packing group | Packagings shall conform to the packing group II performance level |

UN-ADR

| | |
|-----------------------------------|--|
| UN number | 3480 |
| UN proper shipping name | LITHIUM ION BATTERIES(including lithiumion polymer batteries) |
| Transport hazard class | 9 |
| Transport subsidiary hazard class | None |
| Packing group | Packagings shall conform to the packing group II performance level |

15 Regulatory information**International chemical inventory**

| Component | EC inventory | TSCA | DSL | IECSC | NZIoC | PICCS | KECI | AIICS | ENCS |
|---------------------------|--------------|------|-----|-------|-------|-------|------|-------|------|
| Ferrous Lithium Phosphate | × | √ | √ | √ | × | × | √ | × | √ |
| Electrolyte | √ | √ | × | √ | × | √ | √ | √ | √ |
| Copper | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| Carbon | √ | √ | √ | √ | √ | √ | √ | √ | × |
| Aluminium | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| Alufer | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| Septum | × | √ | √ | √ | √ | √ | √ | √ | √ |

[EC inventory] European Inventory of Existing Commercial Chemical Substances

[TSCA] United States Toxic Substances Control Act Inventory

[DSL] Canadian Domestic Substances List

| | |
|---------|--|
| [IECSC] | China Inventory of Existing Chemical Substances |
| [NZIoC] | New Zealand Inventory of Chemicals |
| [PICCS] | Philippines Inventory of Chemicals and Chemical Substances |
| [KECI] | Korea Existing Chemicals Inventory |
| [AIICS] | Australian. Inventory of Industrial Chemical (AIICS) |
| [ENCS] | Japan Inventory of Existing & New Chemical Substances |

Note:

- “√” Indicates that the substance included in the regulations.
 “x” No data or not included in the regulations.

16 Other information

Information on revision

| | |
|---------------------|------------|
| Creation Date | 2024/04/12 |
| Revision Date | - |
| Reason for revision | - |

Reference

- [1] IPCS: The International Chemical Safety Cards (ICSC), website: <http://www.ilo.org/dyn/icsc/showcard.home>.
- [2] IARC, website: <http://www.iarc.fr/>.
- [3] OECD: The Global Portal to Information on Chemical Substances, website: <https://www.echemportal.org/echemportal/>.
- [4] CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>.
- [5] NLM: ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>.
- [6] EPA: Integrated Risk Information System, website: <http://cfpub.epa.gov/iris/>.
- [7] U.S. Department of Transportation: ERG, website: <http://www.phmsa.dot.gov/hazmat/library/erg>.
- [8] Germany GESTIS-database on hazard substance, website: <http://gestis-en.itrust.de/>.

Abbreviations and acronyms

| | | | |
|------------------|--------------------------------------|-----------|---|
| CAS | Chemical Abstracts Service | UN | The United Nations |
| PC-STEL | Short term exposure limit | OECD | Organization for Economic Co-operation and Development |
| PC-TWA | Time Weighted Average | IMDG-CODE | International Maritime Dangerous Goods CODE |
| MAC | Maximum Allowable Concentration | IARC | International Agency for Research on Cancer |
| DNEL | Derived No Effect Level | ICAO | International Civil Aviation Organization |
| PNEC | Predicted No Effect Concentration | IATA | International Air Transportation Association |
| NOEC | No Observed Effect Concentration | ACGIH | American Conference of Governmental Industrial Hygienists |
| LC ₅₀ | Lethal Concentration 50% | NFPA | National Fire Protection Association |
| LD ₅₀ | Lethal Dose 50% | NTP | National Toxicology Program |
| EC ₅₀ | Effective Concentration 50% | PBT | Persistent, Bioaccumulative, Toxic |
| EC _x | Effective Concentration X% | vPvB | very Persistent, very Bioaccumulative |
| P _{OW} | Partition coefficient Octanol: Water | CMR | Carcinogens, mutagens or substances toxic to reproduction |
| BCF | Bioconcentration factor | RPE | Respiratory Protective Equipment |
| ED | Endocrine disruptor | | |

Disclaimer

This Safety Data Sheet (SDS) was prepared according to UN GHS (the 10th revised edition). The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.