

DESIGN REPORT OF SAFETY DATA SHEET



No.: 250100320157659ES1

Date: Sep.30,2025



Name of the sample	Rechargeable Li-ion Battery HB051050A		
Applicant	AISWEI New Energy Technology (Yangzhong) Co., Ltd.		
Supplier	AISWEI New Energy Technology (Yangzhong) Co., Ltd.		
Composition of the sample	Lithium Iron Phosphate (LiFePO4): 17~35%; Graphite: 5~18%; Aluminum Foils: 2~6%; Copper Foils: 4~8%; Nickel: 0~3%; PVC (Chloroethylene,polymer): 0~3%		
Warranty of Design	GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS) Tenth revised edition		
Design Result of SDS please see next page.			
Designer	孙鹤超	Approver	<i>For and on behalf of</i> CCIC JIANGSU CO., LTD. 中国检验认证集团江苏有限公司  4 授权签字人 Authorized Signature (s)

Notes: This SDS is valid before the implementation of the Eleventh revised edition GHS. THIS CERTIFICATE SUBSTITUTES CERTIFICATE NO.250100320157659E.

Test is Located on: CCIC Dangerous Goods Identification Center (47 Qingyang North Road, Tianning District, Changzhou, China)
 Tel: +86-519-83277160

Emergency Contact Number:

Australian Poison Information Centre	Tel 13 11 26	www.poisonsinfo.nsw.gov.au
New Zealand Poison Information Centre	Tel 0800 764 766	www.poisons.co.nz

中国检验认证集团江苏有限公司

CCIC JIANGSU CO., LTD.

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统一社会信用代码: 91320191134928162U

Rechargeable Li-ion Battery HB051050A

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Section 1 Product and Company Identification

> Product Identifier

Product Name Rechargeable Li-ion Battery HB051050A
Synonyms -

> Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Relevant Identified Uses Please consult manufacturer.
Uses Advised Against Please consult manufacturer.

> Details of the Supplier of the Safety Data Sheet

Applicant Name AISWEI New Energy Technology (Yangzhong) Co., Ltd.
Application Address No.588 Gangxing Road, Economic Development Zone, 212200 Yangzhong City, Jiangsu Province, P.R. of China
Applicant Post Code —
Applicant Telephone +86-511-88131666
Applicant Fax —
Applicant E-mail sandy.gong@aiswei-tech.com
Supplier Name AISWEI New Energy Technology (Yangzhong) Co., Ltd.
Supplier Address No.588 Gangxing Road, Economic Development Zone, 212200 Yangzhong City, Jiangsu Province, P.R. of China
Supplier Post Code —
Supplier Telephone +86-511-88131666
Supplier Fax —
Supplier E-mail sandy.gong@aiswei-tech.com
Importer AISWEI Pty Ltd
ABN 18 635 068 218
Address Level 40, 140 Willian St Melbourne, VIC 3000
Contact number in Australia +61 1300 986 964
Email service.au@solplanet.net

> Emergency Phone Number

Emergency Phone Number +86-512-69370998

Section 2 Hazards Identification



Hazard class and label elements of the product according to GHS (the tenth revised edition):

> GHS Hazard Class

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This product meets the definition of an article. Under the Globally Harmonized System of Classification and Labeling of Chemicals (GHS), "Articles" as defined in the Hazard Communication Standard (29 CFR 1910.1200) of the Occupational Safety and Health Administration of the United States of America, or by similar definition, are outside the scope of the system. [Rev.10 (2023) Part 1.3.2.1.1]

> GHS Label Elements

Pictogram Not applicable

Signal Word **Not applicable**

> Hazard Statements

Not applicable

> Precautionary Statements

Prevention

Do not open or disassemble.
Do not expose to high temperatures or open fire.
Do not mix with batteries of varying sizes, chemistries or types.
Avoid using external impact battery.

Response

Not applicable

Storage

Store under roof in cool, dry, well-ventilated areas.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3 Composition/Information on Ingredients



Component	CAS No.	EC No.	Concentration (weight percent,%)
Lithium Iron Phosphate (LiFePO4)	15365-14-7	476-700-9	17~35
Graphite	7782-42-5	231-955-3	5~18
Aluminum Foils	7429-90-5	231-072-3	2~6
Copper Foils	7440-50-8	231-159-6	4~8
Nickel	7440-02-0	231-111-4	0~3
PVC (Chloroethylene,polymer)	9002-86-2	-	0~3

Section 4 First Aid Measures

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> 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	Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Ingestion	Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
Inhalation	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration 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 and Effects, both Acute and Delayed

- 1 Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

> Indication of Any Immediate Medical Attention and Special Treatment Needed

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

Section 5 Fire Fighting Measures

> Extinguishing Media

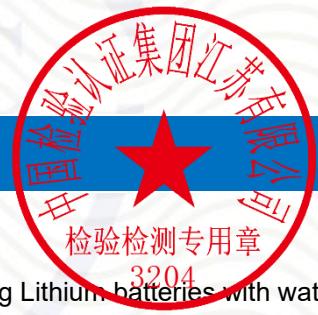
Suitable Extinguishing Media	Use water spray to extinguish fire. Cool surrounding Lithium batteries with water spray.
Unsuitable Extinguishing Media	Do not use a solid water stream as it may scatter or spread fire.

> Specific Hazards Arising from the Substance or Mixture

- 1 Containers may explode when heated.
- 2 Fire exposed containers may vent contents through pressure relief valves.
- 3 May expansion or decompose explosively when heated or involved in fire.

> Advice for Firefighters

- 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.



Section 6 Accidental Release Measure

> Personal Precautions, Protective Equipment and Emergency Procedures

- 1 Ensure adequate ventilation. Remove all sources of ignition.

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- 2 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
- 3 Use personal protective equipment. Avoid breathing vapours, mist, gas or dust.

> 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 Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
- 2 Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
- 3 Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

Section 7 Handling and Storage

> Precautions for 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.
- 5 Take precautionary measures against static discharges.

> Precautions for Storage

- 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.

Section 8 Exposure Controls/Personal Protection

> Control Parameters

Occupational Exposure Limit Values

Component	Country/Region	Limit Value - Eight Hours		Limit Value - Short Term	
		ppm	mg/m³	ppm	mg/m³
Graphite 7782-42-5	USA - OSHA	-	15	-	-
	South Korea	-	2	-	-
	Ireland	-	10	-	-
	Germany (DFG)	-	4	-	-
	Denmark	-	2.5	-	5
	Australia	-	3 (4)	-	-



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Aluminum Foils 7429-90-5	USA - OSHA	-	15	-	-
	South Korea	-	10	-	-
	Ireland	-	1	-	-
	Germany (DFG)	-	4	-	-
	Denmark	-	5	-	10
	Australia	-	10	-	-
Copper Foils 7440-50-8	The Netherlands	-	0.1	-	-
	Poland	-	0.2	-	-
	Latvia	-	0.5	-	1
	Germany (DFG)	-	0.01	-	0.02
Nickel 7440-02-0	USA - OSHA	-	1	-	-
	South Korea	-	1	-	-
	Ireland	-	0.5	-	-
	Hungary	-	0.1	-	0.1
	Denmark	-	0.05	-	0.1
	Australia	-	1	-	-
PVC (Chloroethylene ,polymer) 9002-86-2	Switzerland	-	3	-	-
	Sweden	-	1	-	-
	Latvia	-	5	-	-
	Ireland	-	10	-	-
	Germany (DFG)	-	1.5	-	-
	Belgium	-	10	-	-

Biological Limit Values

No information available

Monitoring Methods

- EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
- GBZ/T 160 Determination of toxic substances in workplace air(Series effective standard)and GBZ/T 300 Determination of toxic substances in workplace air(Series standard).

> Engineering Controls

- Ensure adequate ventilation, especially in confined areas.
- Ensure that eyewash stations and safety showers are close to the workstation location.
- Use explosion-proof electrical/ventilating/lighting/equipment.
- Set up emergency exit and necessary risk-elimination area.

> Personal Protection Equipment

Eye Protection

Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US)).

Hand Protection

Wear protective gloves (such as butyl rubber) , passing the tests according to EN 374(EU),US F739 or AS/NZS 2161.1 standard.



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Respiratory protection

If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.

Skin and Protection Body

Wear fire/flame resistant/retardant clothing and antistatic boots.

Section 9 Physical and Chemical Properties

Appearance: Lithium ion battery pack, individually packaged. Battery parameters: 51.2V 50Ah 2560Wh

Odor Threshold: No information available

Melting Point/Freezing Point (°C): No information available

Flash Point (°C)(Closed Cup): Not applicable

Flammability: No information available

Vapor Pressure (KPa): Not applicable

Relative Density(Water=1): No information available

n-Octanol/Water Partition Coefficient: No information available

Decomposition Temperature (°C): No information available

Particle characteristics: No information available

Odor: No information available

pH: No information available

Initial Boiling Point and Boiling Range (°C): No information available

Evaporation Rate: Not applicable

Upper/lower explosive limits[%(v/v): Upper limit: No information available; Lower limit: No information available

Relative Vapour Density(Air=1): Not applicable

Solubility: No information available

Auto-Ignition Temperature(°C): No information available

Kinematic Viscosity (mm²/s): Not applicable

Critical Temperature(°C): Not applicable

Section 10 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

Mixtures with metallic acetylene, when heated, cause a fire or incandescence.

Conditions to Avoid

Ultrafine powder will self-ignite in the air at room temperature. Reacts severely with halogens, interhalogens or other strong oxidants, or causes a fire.

Incompatible Materials

Incompatible materials, heat, flame and spark.

Metal acetylide, halogen, interhalogen, halogen oxides, nitric acid, nitrous oxide, nitrates, nitrites, halogen oxyacid salts, chromates, permanganates, inorganic peroxides, metal oxides and peroxyformic acid. Oxidants, halogen, interhalogen and mercury. Halogen, interhalogen, strong oxidant, water and acids.

Hazardous Decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.



Section 11 Toxicological Information

> Acute Toxicity

No information available

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> Skin Corrosion/Irritation

No information available

> Serious Eye Damage/Irritation

No information available

> Skin Sensitization

No information available

> Respiratory Sensitization

No information available

> Germ Cell Mutagenicity

No information available

> Carcinogenicity

ID	CAS No.	Component	IARC	NTP
1	15365-14-7	Lithium Iron Phosphate (LiFePO ₄)	Not Listed	Not Listed
2	7782-42-5	Graphite	Not Listed	Not Listed
3	7429-90-5	Aluminum Foils	Not Listed	Not Listed
4	7440-50-8	Copper Foils	Not Listed	Not Listed
5	7440-02-0	Nickel	Category 2B	Not Listed
6	9002-86-2	PVC (Chloroethylene,polymer)	Category 3	Not Listed

> Reproductive Toxicity

No information available

> Reproductive Toxicity (Additional)

No information available

> STOT-Single Exposure

No information available

> STOT-Repeated Exposure

No information available

> Aspiration Hazard

No information available

Section 12 Ecological Information

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> Acute Aquatic Toxicity

Component	CAS No.	Fish	Crustaceans	Algae
Aluminum Foils	7429-90-5	LC ₅₀ : 1.55mg/L (96h)(Fish)	No information available	No information available
Copper Foils	7440-50-8	LC ₅₀ : 0.665mg/L (96h)(Fish)	EC ₅₀ : 0.02mg/L (48h)	ErC ₅₀ : 7.9mg/L (96h)
Nickel	7440-02-0	LC ₅₀ : 40mg/L (96h)(Fish)	EC ₅₀ : 1mg/L (48h)	No information available

> Chronic Aquatic Toxicity

No information available

> Others

Persistence and Degradability
Bioaccumulative Potential

No information available

Mobility in Soil

No information available

No information available

Results of PBT and vPvB Assessment

 Lithium Iron Phosphate (LiFePO₄) does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.

Graphite does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.

Aluminum Foils does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.

Copper Foils does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.

Nickel does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.

PVC (Chloroethylene,polymer) does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.

Waste Chemicals Contaminated Packaging Disposal Recommendations

Before disposal should refer to the relevant national and local laws and regulation. Containers may still present chemical hazard when empty. Keep away from heat and ignition source of fire. Return to supplier for recycling if possible. Refer to Waste chemicals and Contaminated packaging.

Section 13 Disposal Considerations


Transporting Label


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Marine pollutant	No
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 According to United Nations Recommendations on the Transports of Dangerous Goods•Model Regulations, Lithium batteries(group) could be transported in accordance with the classification conclusions of this report when meet the requirements of UN38.3 test.
Report remarks	

Section 15 Regulatory Information


 检验检测专用章
 3204

> International Chemical Inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECL	AIIC	ENCS
Lithium Iron Phosphate (LiFePO4)	✗	✓	✓	✓	✗	✗	✓	✗	✗
Graphite	✓	✓	✓	✓	✓	✓	✓	✓	✗
Aluminum Foils	✓	✓	✓	✓	✓	✓	✓	✓	✗
Copper Foils	✓	✓	✓	✓	✓	✓	✓	✓	✗
Nickel	✓	✓	✓	✓	✓	✓	✓	✓	✗
PVC (Chloroethylene, polymer)	✗	✓	✓	✓	✓	✓	✓	✓	✓

【EINECS】 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.

【KECL】 Korea Existing Chemicals List.

【AIIC】 Australian Inventory of Industrial Chemicals.

【ENCS】 Japan List of Existing and New Chemical Substances.

Note

“✓” Indicates that the substance included in the regulations

“✗” That no data or included in the regulations

Section 16 Additional Information

 Creation Date
 Revision Date

 Sep.22,2025
 Sep.30,2025



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Reason for Revision

Importer information modification

> 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.





Terms of the Using of the Report



1. The report is issued by CCIC according to the information of the chemicals and the information of its shipping provided by the applicant (shipper or his agent).
2. According to the demand of this SDS, CCIC requires the applicant to provide true and exact sample and data.
3. Information from applicant is the key of this SDS, so CCIC will not respond for the wrong of applicant.
4. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested.
5. This report will be effective only after it is signed by the inspector, approver and stamped by CCIC.
6. CCIC guarantees the objectivity and fairness of this report, and carries out confidentiality obligations on business secrets such as business information, technical documents and so on.
7. The partly duplicating of this report is prohibited without the written approver of CCIC.
8. The report is invalid when anything of the following happens-illegal transfer, embezzlement, imposture, modification or tampering in any media form.
9. The authenticity of the certificate can be checked by scan the security code of this certificate.

Notes : Test is Located on : CCIC Dangerous Goods Identification Center (47 Qingyang North Road, Tianning District, Changzhou, China)

Tel : +86-519-83277160