



DESIGN REPORT OF SAFETY DATA SHEET

No.: 260106320157582E

Date: Mar.26,2026



Name of the sample	Rechargeable Li-ion Battery APH5.0		
Applicant	AISWEI New Energy Technology (Yangzhong) Co., Ltd.		
Supplier	AISWEI New Energy Technology (Yangzhong) Co., Ltd.		
Composition of the sample	Iron: 25.4%; Lithium Iron Phosphate: 27.9%; Graphite: 15.3%; Ethylene Carbonate: 3.3%; Ethyl Methyl Carbonate: 5%; Diethyl carbonate: 0.8%; Propylene carbonate: 0.8%; Dimethyl carbonate: 1.7%; Lithium Hexafluorophosphate: 1.9%; Carbon Black: 4%; Polyvinylidene Fluoride: 0.5%; Cellulose,Carboxymethyl Ether: 0.1%; Polypropylene: 3.4%; silica gel: 1.5%; Copper: 4.3%; Aluminum: 4.1%		
Warranty of Design	GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS) Eleventh revised edition		
Design Result of SDS please see next page.			
Designer	孙越越	Approver	For and on behalf of CCIC JIANGSU CO., LTD. 中国检验认证集团江苏有限公司 华世

4 授权签字人 Authorized Signature (s)

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

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.

地址(Add.): 江苏省南京市创智路 39 号
No. 39 Chuangzhi Road, Nanjing, Jiangsu, China
电话(Tel): 86-519-83277160 传真(Fax): 86-25-52343735
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统一社会信用代码: 91320191134928162U

Rechargeable Li-ion Battery
APH5.0

SAFETY DATA SHEET

No.: 260106320157582E

Date: Mar 26 2026

Warranty of Design: GHS (Eleventh
Revised Edition)

SDS

Version: 1.0

Section 1 Product and Company Identification

> Product Identifier

Product Name Rechargeable Li-ion Battery APH5.0

Synonyms -

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

Relevant Identified Uses The APH5.0 is the battery module in the APH5.0-SX Battery System, X=2/3/4/5/6/7/8/9/10

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 0511-88131666

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 0511-88131666

Supplier Fax ——

Supplier E-mail sandy.gong@aiswei-tech.com

Importer AISWEI Pty Ltd

ABN 18 635 068 218

Address Level 40, 140 William Street, Melbourne, 3000, Victoria

Contact number in Australia +61 1300 986 964

Email service.au@solplanet.net

> Emergency Phone Number

Emergency Phone Number 0512-69370998

Section 2 Hazards Identification

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

> GHS Hazard Class



Rechargeable Li-ion Battery
APH5.0

SAFETY DATA SHEET

No.: 260106320157582E

Date: Mar.26,2026

Warranty of Design: GHS (Eleventh
Revised Edition)

SDS

Version: 1.1

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.11 (2025) 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.

> Other hazards which do not result in classification

None

Section 3 Composition/Information on Ingredients

Component	CAS No.	EC No.	Concentration (weight percent, %)
Iron	7439-89-6	231-096-4	25.4
Lithium Iron Phosphate	15365-14-7	-	27.9
Graphite	7782-42-5	231-955-3	15.3
Ethylene Carbonate	96-49-1	202-510-0	3.3
Ethyl Methyl Carbonate	623-53-0	433-480-9	5
Diethyl carbonate	105-58-8	203-311-1	0.8



Rechargeable Li-ion Battery
APH5.0

SAFETY DATA SHEET

No.: 260106320157582E

Date: Mar.26,2026

Warranty of Design: GHS (Eleventh
Revised Edition)

SDS

Version: 1.1

Propylene carbonate	108-32-7	203-572-1	0.8
Dimethyl carbonate	616-38-6	210-478-4	1.7
Lithium Hexafluorophosphate	21324-40-3	244-334-7	1.9
Carbon Black	1333-86-4	215-609-9	4
Polyvinylidene Fluoride	24937-79-9	-	0.5
Cellulose,Carboxymethyl Ether	9000-11-7	-	0.1
Polypropylene	9003-07-0	-	3.4
silica gel	112926-00-8	-	1.5
Copper	7440-50-8	231-159-6	4.3
Aluminum	7429-90-5	231-072-3	4.1

Section 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	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

Rechargeable Li-ion Battery
APH5.0

SAFETY DATA SHEET

No.: 260106320157582E

Date: Mar.26,2026

Warranty of Design: GHS (Eleventh
Revised Edition)

SDS

Version: 1.1

- 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.
- 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.



Rechargeable Li-ion Battery
APH5.0

SAFETY DATA SHEET

No.: 260106320157582E

Date: Mar 26, 2026

Warranty of Design: GHS (Eleventh
Revised Edition)

SDS

Version: 1



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/m ³	ppm	mg/m ³
Graphite 7782-42-5	USA - OSHA	-	15	-	-
	South Korea	-	2	-	-
	Ireland	-	10	-	-
	Germany (DFG)	-	4	-	-
	Denmark	-	2.5	-	5
	Australia	-	3 (4)	-	-
Propylene carbonate 108-32-7	Latvia	-	2	-	-
Carbon Black 1333-86-4	USA - OSHA	-	3.5	-	-
	South Korea	-	3.5	-	-
	Ireland	-	3.5	-	7
	France	-	3.5	-	-
	Denmark	-	3.5	-	7
	Australia	-	3	-	-
silica gel 112926-00-8	South Korea	-	10	-	-
	New Zealand	-	1	-	-
	Ireland	-	6	-	-
	Germany (AGS)	-	4	-	-
	Denmark	-	2	-	4
	Australia	-	2	-	-
Copper 7440-50-8	The Netherlands	-	0.1	-	-
	Poland	-	0.2	-	-
	Latvia	-	0.5	-	1
	Germany (DFG)	-	0.01	-	0.02
Aluminum 7429-90-5	USA - OSHA	-	15	-	-
	South Korea	-	10	-	-
	Ireland	-	1	-	-
	Germany (DFG)	-	4	-	-
	Denmark	-	5	-	10
	Australia	-	10	-	-

Biological Limit Values

Rechargeable Li-ion Battery
APH5.0

SAFETY DATA SHEET

No.: 260106320157582E

Date: Mar.26,2026

Warranty of Design: GHS (Eleventh
Revised Edition)

SDS

Version: 1.1

Component	Source	Biological monitoring index	Biological limits value	Sampling time	Remark
Lithium Hexafluorophosphate	SCOEL(EU)	Fluorine/urine	8mg/L	end of shift	

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.
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 Body Protection	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 100Ah 5.12kWh

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

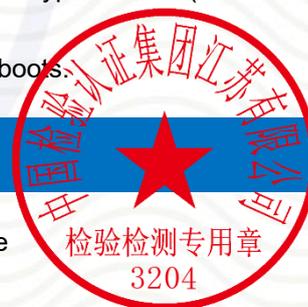
Kinematic Viscosity (mm²/s): Not applicable

Critical Temperature(°C):Not applicable

Section 10 Stability and Reactivity

Reactivity

Contact with incompatible substances can cause decomposition or other chemical



Rechargeable Li-ion Battery
APH5.0

SAFETY DATA SHEET

No.: 260106320157582E

Date: Mar.26,2026

Warranty of Design: GHS (Eleventh
Revised Edition)

SDS

Version: 1.1

	reactions.
Chemical Stability	Stable under proper operation and storage conditions.
Possibility of Hazardous Reactions	Reacts severely with halogens, interhalogens or other strong oxidants, or causes a fire. Mixtures with metallic acetylene, when heated, cause a fire or incandescence. Ultrafine powder will self-ignite in the air at room temperature.
Conditions to Avoid	Incompatible materials, heat, flame and spark.
Incompatible Materials	Halogen, interhalogen, strong oxidant, water and acids. 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.
Hazardous Decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11 Toxicological Information

> Acute Toxicity

Component	CAS No.	LD ₅₀ (Oral)	LD ₅₀ (Dermal)	LC ₅₀ (Inhalation, 4h)
Dimethyl carbonate	616-38-6	13000mg/kg(Rat)	> 5000mg/kg(Rabbit)	No information available
Ethylene Carbonate	96-49-1	10000mg/kg(Rat)	> 3000mg/kg(Rabbit)	No information available
Propylene carbonate	108-32-7	34600mg/kg(Rat)	>23800mg/kg(Rabbit)	No information available
Iron	7439-89-6	30000mg/kg(Rat)	No information available	No information available
Lithium Hexafluorophosphate	21324-40-3	50~300mg/kg(Rat)	275mg/kg(Rat)	No information available
Carbon Black	1333-86-4	> 15400mg/kg(Rat)	> 3000mg/kg(Rabbit)	No information available

> 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

Rechargeable Li-ion Battery
APH5.0

SAFETY DATA SHEET

No.: 260106320157582E

Date: Mar.26,2026

Warranty of Design: GHS (Eleventh
Revised Edition)

SDS

Version: 1.1

No information available

> **Carcinogenicity**

ID	CAS No.	Component	IARC	NTP
1	7439-89-6	Iron	Not Listed	Not Listed
2	15365-14-7	Lithium Iron Phosphate	Not Listed	Not Listed
3	7782-42-5	Graphite	Not Listed	Not Listed
4	96-49-1	Ethylene Carbonate	Not Listed	Not Listed
5	623-53-0	Ethyl Methyl Carbonate	Not Listed	Not Listed
6	105-58-8	Diethyl carbonate	Not Listed	Not Listed
7	108-32-7	Propylene carbonate	Not Listed	Not Listed
8	616-38-6	Dimethyl carbonate	Not Listed	Not Listed
9	21324-40-3	Lithium Hexafluorophosphate	Not Listed	Not Listed
10	1333-86-4	Carbon Black	Category 2B	Not Listed
11	24937-79-9	Polyvinylidene Fluoride	Not Listed	Listed
12	9000-11-7	Cellulose, Carboxymethyl Ether	Not Listed	Not Listed
13	9003-07-0	Polypropylene	Category 3	Not Listed
14	112926-00-8	silica gel	Not Listed	Not Listed
15	7440-50-8	Copper	Not Listed	Not Listed
16	7429-90-5	Aluminum	Not Listed	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

Rechargeable Li-ion Battery
APH5.0

SAFETY DATA SHEET

No.: 260106320157582E

Date: Mar.26,2026

Warranty of Design: GHS (Eleventh
Revised Edition)

SDS

Version: 1.1

> **Acute Aquatic Toxicity**

Component	CAS No.	Fish	Crustaceans	Algae
Copper	7440-50-8	LC ₅₀ : 0.665mg/L (96h)(Fish)	EC ₅₀ : 0.02mg/L (48h)	ErC ₅₀ : 7.9mg/L (96h)
Iron	7439-89-6	LC ₅₀ : 1.29mg/L (96h)(Fish)	No information available	No information available
Aluminum	7429-90-5	LC ₅₀ : 1.55mg/L (96h)(Fish)	No information available	No information available

> **Chronic Aquatic Toxicity**

No information available

> **Others**

**Persistence and
Degradability
Bioaccumulative
Potential
Mobility in Soil**

No information available

No information available

No information available

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

Lithium Iron Phosphate 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.

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

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

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

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

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

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

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

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

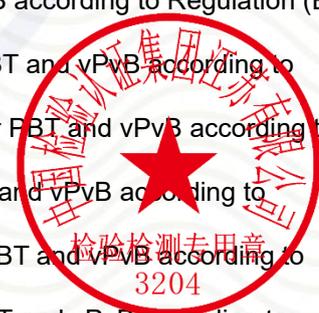
Cellulose, Carboxymethyl Ether does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.

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

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

Copper does not meet the criteria for PBT and vPvB according to Regulation (EC) No

**Results of PBT and
vPvB Assessment**



Rechargeable Li-ion Battery
APH5.0

SAFETY DATA SHEET

No.: 260106320157582E

Date: Mar.26,2026

Warranty of Design: GHS (Eleventh
Revised Edition)

SDS

Version: 1.1

1907/2006, annex XIII.

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

Section 13 Disposal Considerations

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 hot and ignition source of fire. Return to supplier for recycling if possible. Refer to Waste chemicals and Contaminated packaging.

Section 14 Transport Information

Transporting Label



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

> International Chemical Inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECL	AIIC	ENCS
Iron	√	√	√	√	√	√	√	√	×
Lithium Iron Phosphate	×	√	√	√	×	×	√	×	×
Graphite	√	√	√	√	√	√	√	√	×
Ethylene Carbonate	√	√	√	√	√	√	√	√	√
Ethyl Methyl Carbonate	√	√	×	√	×	√	√	×	√
Diethyl carbonate	√	√	√	√	√	√	√	√	√
Propylene carbonate	√	√	√	√	√	√	√	√	√

Rechargeable Li-ion Battery
APH5.0

SAFETY DATA SHEET

No.: 260106320157582E

Date: Mar.26,2026

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SDS

Version: 1.1

Dimethyl carbonate	√	√	√	√	√	√	√	√	√
Lithium Hexafluorophosphate	√	√	×	√	×	√	√	√	√
Carbon Black	√	√	√	√	√	√	√	√	√
Polyvinylidene Fluoride	×	√	√	√	√	√	√	√	√
Cellulose,Carboxymethyl Ether	×	√	√	√	√	√	×	√	√
Polypropylene	×	√	√	√	√	√	√	√	√
silica gel	×	×	√	√	√	√	√	√	×
Copper	√	√	√	√	√	√	√	√	×
Aluminum	√	√	√	√	√	√	√	√	×

[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 Mar.26,2026

Revision Date Mar.26,2026

Reason for Revision -

> Disclaimer

This Safety Data Sheet (SDS) was prepared according to UN GHS (the 11th 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.



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