

Safety Data Sheet (SDS) Report

SDS Number: SHJ1347164

Applicant: Tineco Intelligent Technology Co, Ltd.
No 108, West Shihu Road, Wuzhong District, Suzhou, China

Issue Date: 2021-06-15

Sample Description:

The sample information was submitted and identified on client's behalf to be:

Product Name : Deep Clean & Deodorizing Solution
Physical State : Liquid
Data Received : Jun 02, 2021
Last Information Date : Jun 11, 2021
Data Reviewed : Jun 15, 2021

Service Requested:

Based on the information provided by the applicant, the Safety Data Sheet (SDS) was generated according to requirements of Regulation (EC) No 1907/2006 (REACH) with its amendment Commission Regulation (EU) 2020/878, Regulation (EC) No 1272/2008, for details please refer to attached pages.

Authorized By:

On Behalf Of Regulatory Affairs in Intertek Testing Services Ltd., Shanghai



Anna Wang
Technical Manager

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Deep Clean & Deodorizing Solution

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878
Issue date: 6/15/2021 Revision date: 6/15/2021 Version: 1.0 SDS number: SHJ1347164

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

1.1. Product identifier

Product form : Mixture
Product name : Deep Clean & Deodorizing Solution

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

1.2.1. Relevant identified uses

Clean for the floor

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

Tineco Intelligent Technology Co, Ltd
No 108, West Shihu Road, Wuzhong District, Suzhou, China
T +86-0512-65654197
yonghua.huang@tineco.com

Importer

Tineco Intelligent Europe GmbH
Stresemannallee 6.2, 41460 Neuss
T +49-177 778 7775
marco.getz@tineco.com

1.4. Emergency telephone number

+49-177 778 7775(9:00-17:00)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

2.3. Other hazards

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

Deep Clean & Deodorizing Solution

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Water	CAS-No.: 7732-18-5 EC-No.: 231-791-2	> 90	Not classified
Polyethylene-polypropylene glycol	CAS-No.: 9003-11-6 EC-No.: 618-355-0	< 2	Not classified
tetrasodium ethylene diamine tetraacetate	CAS-No.: 64-02-8 EC-No.: 200-573-9 EC Index-No.: 607-428-00-2	0.1 – 0.5	Acute Tox. 4 (Oral), H302 (ATE=1658 mg/kg bodyweight) Eye Dam. 1, H318
Disodium EDTA	CAS-No.: 139-33-3 EC-No.: 205-358-3	0.1 – 0.5	Acute Tox. 4 (Inhalation), H332 (ATE=1.5 mg/l/4h) STOT RE 2, H373
Zinc diricinoleate	CAS-No.: 13040-19-2 EC-No.: 235-911-4	0.1 – 0.5	Not classified
Siloxanes and silicones, dimethyl, 3-hydroxypropyl methyl, ethoxylated	CAS-No.: 68937-54-2 EC-No.: 614-822-8	0.1 – 0.5	Not classified
Fragrance	N/A	0.01 – 0.05	-
1,2-benzisothiazol-3(2H)-one	CAS-No.: 2634-33-5 EC-No.: 220-120-9 EC Index-No.: 613-088-00-6	< 0.003	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400

Specific concentration limits

Name	Product identifier	Specific concentration limits
1,2-benzisothiazol-3(2H)-one	CAS-No.: 2634-33-5 EC-No.: 220-120-9 EC Index-No.: 613-088-00-6	(0.05 ≤C < 100) Skin Sens. 1, H317

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
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4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Deep Clean & Deodorizing Solution

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: No additional information available
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protective equipment for firefighters	: Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment	: Wear recommended personal protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Ventilate spillage area. Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
Other information	: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of residues refer to section 13 : "Disposal considerations".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment. Provide good ventilation in process area to prevent formation of vapour.
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Keep container tightly closed in a cool, well-ventilated place. Keep container closed when not in use.
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Deep Clean & Deodorizing Solution

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Suitable packaging material : Plastic, e.g. HDPE, PET, PP, or glass

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure.

8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses. Use eye protection according to EN 166. Safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Wear protective gloves. Wear suitable gloves tested to EN374

8.2.2.3. Respiratory protection

Respiratory protection:

Wear appropriate mask

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke during use.

Deep Clean & Deodorizing Solution

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Transparent
Odour	: Characteristic odor
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Non flammable.
Explosive limits	: Not available
Lower explosive limit (LEL)	: Not available
Upper explosive limit (UEL)	: Not available
Flash point	: >93.3 °C
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: 8 - 10
Viscosity, kinematic	: Not available
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50 °C	: Not available
Density	: 0.9850~1.0150 g/cm ³
Relative density	: Not available
Relative vapour density at 20 °C	: Not available
Particle size	: Not applicable
Particle size distribution	: Not applicable
Particle shape	: Not applicable
Particle aspect ratio	: Not applicable
Particle aggregation state	: Not applicable
Particle agglomeration state	: Not applicable
Particle specific surface area	: Not applicable
Particle dustiness	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Hazardous polymerization will not occur.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

Deep Clean & Deodorizing Solution

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

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 hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)

tetrasodium ethylene diamine tetraacetate (64-02-8)

LD50 oral rat	1658 mg/kg
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Disodium EDTA (139-33-3)

LD50 oral rat	2 g/kg
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Polyethylene-polypropylene glycol (9003-11-6)

LD50 oral rat	16 g/kg
LC50 Inhalation - Rat	320 mg/m ³ (Exposure time: 4 h)

Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met)
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met)
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

No additional information available

11.2.2. Other information

Other information : Likely routes of exposure: ingestion, inhalation, skin and eye

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute)	: Not classified (Based on available data, the classification criteria are not met)
Hazardous to the aquatic environment, long-term (chronic)	: Not classified (Based on available data, the classification criteria are not met)

tetrasodium ethylene diamine tetraacetate (64-02-8)

LC50 - Fish [1]	> 121 mg/l
EC50 - Crustacea [1]	140 mg/l Test organisms (species): Daphnia magna
EC50 - Other aquatic organisms [1]	625 mg/l waterflea

Disodium EDTA (139-33-3)

LC50 - Fish [1]	320 mg/l (Exposure time: 96 h - Species: Poecilia reticulata [semi-static])
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Deep Clean & Deodorizing Solution

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

12.2. Persistence and degradability

Deep Clean & Deodorizing Solution

Persistence and degradability	Not established.
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1,2-benzisothiazol-3(2H)-one (2634-33-5)

Persistence and degradability	Inherently biodegradable.
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12.3. Bioaccumulative potential

Deep Clean & Deodorizing Solution

Bioaccumulative potential	Not established.
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tetrasodium ethylene diamine tetraacetate (64-02-8)

Partition coefficient n-octanol/water (Log Pow)	-0.43
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1,2-benzisothiazol-3(2H)-one (2634-33-5)

Bioaccumulative potential	No bioaccumulation.
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12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated

Deep Clean & Deodorizing Solution

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

ADR	IMDG	IATA	ADN	RID
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

Germany

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG)
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG)

Water hazard class (WGK) : WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
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Deep Clean & Deodorizing Solution

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Abbreviations and acronyms	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Sources of Key data

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information

: None.

Deep Clean & Deodorizing Solution

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Full text of H- and EUH-statements	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.



Material Safety Data Sheet

Name of Sample:

Rechargeable Li-ion Battery
Floor one S5-01 21.6V 4000mAh 86.4Wh

Commissioner:

Huizhou Blueway Electronics Co., Ltd.



Shanghai Truron Testing Technology Co., Ltd.

Material Safety Data Sheet

Material Safety Data Sheet

Section 1.

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Name of goods	Rechargeable Li-ion Battery
Type/Mode	Floor one S5-01
Nominal Parameter:	21.6V
Nominal Capacity:	4000mAh
Weight	517g
Manufacturer	Huizhou Blueway Electronics Co., Ltd.
Manufacturer address	NO. 101, West Hechang 5th Road, Zhongkai High-Tech Development Zone, Huizhou, Guangdong, P.R.China
Inspection according to	EEC Directive 93/112/EC UN "Recommendations on the TRANSPORT OF DANGEROUS GOODS"
Emergency telephone call	0519-82205868
Comment	--
-	 Issue date: 2024-04-01

Approved by:

Reviewed by:

Tested by:

批准:

Sally Ren

审核:

Arthur Li

主检:

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Section 2.**Hazards Identification**

Explosive risk	This article does not belong to the explosion dangerous goods
Flammable risk	This article does not belong to the flammable material
Oxidation risk	This article does not belong to the oxidation of dangerous goods
Toxic risk	This article does not belong to the toxic dangerous goods
Radioactive risk	This article does not belong to the radiation of dangerous goods
Mordant risk	This article does not belong to the corrosion of dangerous goods
other risk	This article is Rechargeable lithium-ion battery, which belongs to the Lithium ion batteries(including lithium polymer batteries)

Section 3.

COMPOSITION INFORMATION

Chemical Composition	CAS No.	concentration ranges (%) (About)
Lithium Nickel Oxide	12325-84-7	29.05
Graphite	7782-42-5	24.47
Iron	7439-89-6	16.53
Copper	7440-50-8	6.96
cobalt lithium dioxide	12190-79-3	3.55
Methyl propanoate	554-12-1	2.9
Aluminium	7429-90-5	3.71
Lithium hexafluorophosphate(1-)	21324-40-3	1.22
4-Fluoro-1,3-dioxolan-2-one	114435-02-8	1.53
dimethyl carbonate	616-38-6	2.06
Polyethylene	9002-88-4	2.18
diiiron trioxide	1309-37-1	0.82
Boehmite (Al(OH)O)	1318-23-6	0.77
Carbon black	1333-86-4	0.54
Nickel	7440-02-0	0.31
1-Methyl-2-pyrrolidinone	872-50-4	0.85
Aluminum lithium oxide (LiAlO)	11089-89-7	0.72
Chromium	7440-47-3	0.64
lithium carbonate	554-13-2	0.7
ethylbenzene	100-41-4	0.49

Section 4.

First aid measures

Ingestion: Give at least 2 glasses of milk or water. Induce vomiting unless patient is unconscious. Call a physician

Inhalation: Remove from exposure and move to fresh air immediately. Use oxygen if available.

Eye: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Remove contaminated clothes and rinse skin with plenty of water or shower for 15 minutes, Get medical aid.

Section 5.

Fire-fighting measures

Flash Point: N/A.

Auto-Ignition Temperature: N/A.

Extinguishing Media: lots of water, CO2

Special Fire-Fighting Procedures: Self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: Cell may vent when subjected to excessive heat-exposing battery contents.

Hazardous Combustion Products: Carbon monoxide, carbon dioxide, lithium oxide fumes.

Section 6.

Accidental release measures

Steps to be taken in case Material is Released or Spilled

If the battery material is released, remove personnel from area until fumes dissipate. Provide maximum ventilation to clear out hazardous gases. Wipe it up with a cloth, and dispose of it in a plastic bag and put into a steel can. The preferred response is to leave the area and allow the battery to cool and vapors to dissipate. Provide maximum ventilation. Avoid skin and eye contact or inhalation of vapors. Remove spilled liquid with absorbent and contain for disposal.

Waste Disposal Method

Despite being rechargeable, the battery has a limited life span, Replace when usage time between charges becomes short.

Please offer all used batteries for recycling according with local guidelines and regulation. Do not throw in the trash.

Section 7.

Handling and storage

The battery should not be opened, destroyed or incinerate, since they may leak or rupture and release to the environment the ingredients that they contain in the hermetically sealed container. Do not short circuit terminals, or over charge the battery, forced over-discharge, throw to fire. Do not crush or puncture the battery, or immerse in any liquids.

Precautions to be taken during handling and storage

Avoid mechanical or electrical abuse. Preferably storage in cool, dry and ventilated area, which is subject to little temperature change. Storage at high temperatures should be avoided. Do not place the battery near heating equipment, nor expose to direct sunlight for long periods.

Other Precautions

The battery may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short circuit or install with incorrect polarity.

Section 8.

Exposure controls/personal protection

Respiratory Protection: In case of battery venting, provide as much ventilation as possible. Avoid confined areas with venting cell cores. Respiratory Protection is not necessary under conditions of normal use.

Ventilation: Not necessary under conditions of normal use.

Protective Gloves: Not necessary under conditions of normal use.

Other Protective Clothing or Equipment: Not necessary under conditions of normal use.

Personal Protection is recommended for venting battery: Respiratory Protection, Protective Gloves, Protective Clothing and safety glass with side shields.

Section 9.**Physical and chemical properties**

Appearance:

Odour: If leaking, smells of medical ether.

pH: Not applicable as supplied.

Flash Point: Not applicable unless individual components exposed.

Flammability: Not applicable unless individual components exposed.

Relative density: Not applicable unless individual components exposed

Solubility (water): Not applicable unless individual components exposed

Solubility (other): Not applicable unless individual components exposed

Section 10.

Stability and reactivity

Stability: Product is stable under conditions described in Section 7.

Conditions to Avoid: Heat above 70°C or incinerate、deform、mutilate、crush、disassemble、overcharge、short circuit or expose.

Materials to avoid: Oxidizing agents, alkalis, water.

Hazardous Decomposition Products: Toxic Fumes, and may form peroxides.

Hazardous Polymerization: N/A.

If leaked, forbidden to contact with strong oxidizers、mineral acids、strong alkalies or halogenated hydrocarbons.

Section 11.

Toxicological information

Signs & symptoms: None, unless battery ruptures.

In the event of exposure to internal contents, vapour fumes may be very irritating to the eyes and skin.

Inhalation: Lung irritant.

Skin contact: Skin irritant.

Eye contact: Eye irritant

Ingestion: Poisoning if swallowed.

Medical conditions generally aggravated by exposure: In the event of exposure to internal contents, moderate to severe irritation, burning and dryness of the skin may occur, Target organs nerves, liver and kidneys.

Section 12.

Ecological information

There is no influence to ecology and environment when used properly.

Section 13.

Disposal consideration

Depleted batteries shouldn't be treated as ordinary trash. Worn out batteries must be discharged, placed in plastic bags and then put into recycle bin. Shouldn't be thrown into fire or placed in high temperature. Shouldn't be dissected, pierced, crushed or treated similarly. The package and plastic box which contain batteries could be treated as ordinary trash. Best way is recycling.

Section 14.**Transport information**

Label for conveyance	class 9 lithium battery hazard label
UN Number	UN 3480
UN Proper shipping name	Lithium ion batteries (Including lithium ion polymer batteries)
Packing group	Section IB
Marine pollutant	NO
EmS No:	F-A , S-I

Hazard Classification: The goods are complied with the requirements of Section II of Packing Instructions 965 of 64rd DGR Manual of IATA (2023 edition), IMDG CODE (Amdt. 40-20) (2020 Edition), including the passing of the UN38.3 test.

Section 15.**Regulation information**

Law information

《Dangerous Goods Regulations》

《Recommendations on the Transport of Dangerous Goods Model Regulations》

《International Maritime Dangerous Goods》

《Technical Instructions for the Safe Transport of Dangerous Goods》

《Classification and code of dangerous goods》

《Occupational Safety and Health Act》 (OSHA)

《Toxic Substance Control Act》 (TSCA)

《Consumer Product Safety Act》 (CPSA)

《Federal Environmental Pollution Control Act》 (FEPCA)

《The Oil Pollution Act》 (OPA)

《Superfund Amendments and Reauthorization Act TitleIII (302/311/312/313)》 (SARA)

《Resource Conservation and Recovery Act》 (RCRA)

《Safety Drinking Water Act》 (CWA)

《California Proposition 65》

《Code of Federal Regulations》 (CFR)

In accordance with all Federal, State and local laws.

Section 16.**Other information**

The above information are correct, but does not contain all of the information and only used as a guide. The information in this document is base on our current knowledge, it apply to this product as for the correct safety tip.

The information does not guarantee the properties of this produce. Our company is not responsible for any damages caused by the products.



FICHE SIGNALÉTIQUE

Name of Sample:

Batterie Li-ion Rechargeable
Floor one S5-01 21.6V 4000mAh 86.4Wh

Commissioner:

Huizhou Blueway Electronics Co., Ltd.

Shanghai Truron Testing Technology Co., Ltd.

Material Safety Data Sheet



Material Safety Data Sheet

La Section 1.

IDENTIFICATION des produits chimiques et des entreprises

Name of goods	Batterie Li-ion Rechargeable
Type/Mode	Floor one S5-01
Nominal Parameter:	21.6V
Nominal Capacity:	4000mAh
La masse	517g
Manufacturer	Huizhou Blueway Electronics Co., Ltd.
Manufacturer address	NO. 101, West Hechang 5th Road, Zhongkai High-Tech Development Zone, Huizhou, Guangdong, P.R.China
Inspection according to	EEC Directive 93/112/EC UN "Recommendations on the TRANSPORT OF DANGEROUS GOODS"
Emergency telephone call	0519-82205868
Comment	--
-	Date d'émission: 2024-04-01



Approved by:

Reviewed by:

Tested by:

批准:

Sally Ren

审核:

Arthur Li

主检:

cora cao

La Section 2.**IDENTIFICATION DES DANGERS**

Danger d'explosion	L'article n'est pas classé dans la catégorie des matières dangereuses explosives
Danger d'inflammabilité	L'article n'est pas classé dans la catégorie des matières dangereuses inflammables
Danger d'oxydation	L'article n'est pas classé dans la catégorie des matières dangereuses inflammables oxydées
Danger d'empoisonnement	L'article n'est pas classé dans la catégorie des matières dangereuses toxiques
Danger de radiation	L'article n'est pas classé dans la catégorie des matières dangereuses radioactives
Danger de corrosion	L'article n'est pas classé dans la catégorie des matières dangereuses corrosives
Autre danger	Cet article est batterie lithium-ion Rechargeable, qui appartient aux batteries Lithium ion (y compris les batteries Lithium polymère)

La Section 3.
INFORMATION SUR LA COMPOSITION

Composition chimique	N° CAS.	Plages de concentration(%)(environ)
Oxyde de Lithium Nickel	12325-84-7	29.05
Graphite	7782-42-5	24.47
Fer à repasser	7439-89-6	16.53
cuivre	7440-50-8	6.96
cobalt lithium dioxide	12190-79-3	3.55
Propanoate de méthyle	554-12-1	2.9
Aluminium	7429-90-5	3.71
Hexafluorophosphate de Lithium (1-)	21324-40-3	1.22
4-fluoro-1,3-dioxolan-2-one	114435-02-8	1.53
Carbonate de diméthyle	616-38-6	2.06
polyéthylène	9002-88-4	2.18
Trioxyde de difer	1309-37-1	0.82
Boehmite (Al(OH)O)	1318-23-6	0.77
Noir de carbone	1333-86-4	0.54
Nickel	7440-02-0	0.31
1-méthyl-2-pyrrolidinone	872-50-4	0.85
Oxyde de lithium d' aluminium (LiAlO)	11089-89-7	0.72
chrome	7440-47-3	0.64
Carbonate de lithium	554-13-2	0.7
éthylbenzène	100-41-4	0.49

La Section 4.

Mesures de premiers secours

Ingestion: donner au moins 2 verres de lait ou d' eau. Induire des vomissements à moins que le patient ne soit inconscient. Appeler un médecin

Inhalation: Remove from exposure and move to fresh air immediately. Use oxygen if available.

Yeux: rincer abondamment les yeux à l' eau pendant au moins 15 minutes, en soulevant occasionnellement les paupières supérieures et inférieures. Obtenez de l' aide médicale.

Peau: enlever les vêtements contaminés et rincer la peau avec beaucoup d' eau ou une douche pendant 15 minutes, obtenir une aide médicale.

La Section 5.

Mesures de lutte contre l' incendie

Point d' éclair: N/A.

Température d' auto-allumage: N/A.

Milieus d' extinction: beaucoup d' eau, CO2

Procédures spéciales de lutte contre l' incendie: appareil respiratoire autonome.

Risques inhabituels d' incendie et d' explosion: la cellule peut s' évaporer lorsqu' elle est soumise à un contenu excessif de la batterie exposant à la chaleur.

Produits de Combustion dangereux: monoxyde de carbone, dioxyde de carbone, fumées d' oxyde de lithium.

La Section 6.

Mesures de rejet accidentel

Mesures à prendre en cas de déversement ou de déversement de matières

Si le matériel de la batterie est libéré, retirez le personnel de la zone jusqu' à ce que les fumées se dissipent. Fournir une ventilation maximale pour éliminer les gaz dangereux. Essayez-le avec un chiffon, jetez-le dans un sac en plastique et mettez-le dans une boîte en acier. La réponse préférée est de quitter la zone et de laisser la batterie refroidir et les vapeurs se dissiper. Fournir une ventilation maximale. Évitez le contact avec la peau et les yeux ou l'

inhalation de vapeurs. Retirer le liquide déversé avec un absorbant et le contenir pour élimination.

Méthode d' élimination des déchets

Bien qu' elle soit rechargeable, la batterie a une durée de vie limitée, remplacer lorsque le temps d' utilisation entre les charges devient court.

Veuillez proposer toutes les piles usagées pour le recyclage conformément aux directives et réglementations locales. Ne jetez pas à la poubelle.

La Section 7.

Handling and storage

La batterie ne doit pas être ouverte, détruite ou incinérée, car elle peut fuir ou se rompre et libérer dans l' environnement les ingrédients qu' elle contient dans le contenant hermétiquement fermé. Ne court-circuitiez pas les terminaux, ou ne chargez pas la batterie, la sur-décharge forcée, jetez au feu. Ne pas écraser ou percer la batterie, ou immerger dans des liquides.

Précautions à prendre lors de la manipulation et du stockage

Évitez les abus mécaniques ou électriques. De préférence entreposage dans un endroit frais, sec et ventilé, sujet à peu de changement de température. L' entreposage à des températures élevées doit être évité. Ne placez pas la batterie près de l' équipement de chauffage, et n' exposez pas la lumière directe du soleil pendant de longues périodes.

Autres précautions

La batterie peut exploser ou causer des brûlures, si elle est démontée, écrasée ou exposée au feu ou à des températures élevées. Ne court-circuitiez pas ou n' installez pas avec une polarité incorrecte.

La Section 8.

Contrôle de l' exposition/protection individuelle

Protection respiratoire: en cas de ventilation de la batterie, prévoir un maximum de ventilation. Évitez les zones confinées avec des noyaux de cellules de ventilation. Une Protection respiratoire n' est pas nécessaire dans des conditions normales d' utilisation.

Ventilation: pas nécessaire dans des conditions d' utilisation normale.

Gants de protection: non nécessaires dans des conditions normales d' utilisation.

Autres vêtements ou équipements de protection: non nécessaires dans des conditions normales d' utilisation.

Une Protection individuelle est recommandée pour la ventilation de la batterie: Protection respiratoire, gants de Protection, vêtements de Protection et vitres de sécurité avec boucliers latéraux.

La Section 9.

Propriétés physiques et chimiques

Apparence:

Odeur: en cas de fuite, odeurs d' éther médical.

PH: non applicable tel que fourni.

Point d' éclair: ne s' applique pas à moins que des composants individuels soient exposés.

Inflammabilité: non applicable à moins que les composants individuels soient exposés.

Densité Relative: non applicable à moins que les composants individuels soient exposés

Solubilité (eau): non applicable à moins que les composants individuels soient exposés

Solubilité (autre): ne s' applique pas à moins que les composants individuels soient exposés

La Section 10.

Stabilité et réactivité

Stabilité: le produit est stable dans les conditions décrites dans la Section 7.

Conditions à éviter: chauffer au-dessus de 70 ° C ou incinérer, déformer, mutiler, écraser, démonter, surcharger, court-circuiter ou exposer.

Matériaux à éviter: oxydants, alcalis, eau.

Produits de décomposition dangereux: vapeurs toxiques et peuvent former des peroxydes.

Polymérisation dangereuse: N/A.

En cas de fuite, interdit au contact avec les oxydants forts, les acides minéraux, les alcalis forts ou les hydrocarbures halogénés.

La Section 11.

Toxicological information

Signes et symptômes: aucun, à moins de ruptures de batterie.

En cas d'exposition au contenu interne, les vapeurs peuvent être très irritantes pour les yeux et la peau.

Inhalation: irritant pour les poumons.

Contact avec la peau: irritant pour la peau.

Contact oculaire: irritant pour les yeux

Ingestion: intoxication en cas d'ingestion.

Affections généralement aggravées par l'exposition: en cas d'exposition au contenu interne, une irritation modérée à grave, une brûlure et une sécheresse de la peau peuvent survenir, les organes cibles des nerfs, du foie et des reins.

La Section 12.

Informations écologiques

Il n'y a aucune influence sur l'écologie et l'environnement lorsqu'il est utilisé correctement.

La Section 13.

Examen de l'aliénation

Les piles épuisées ne doivent pas être traitées comme des ordures ordinaires. Les piles usées doivent être déchargées, placées dans des sacs en plastique et ensuite mises dans la corbeille.

Ne devrait pas être jeté dans le feu ou placé dans la haute température. Ne doit pas être disséqué, percé, écrasé ou traité de la même façon. L' emballage et la boîte en plastique qui contiennent des piles pourraient être traités comme des ordures ordinaires. Le meilleur moyen est le recyclage.

La Section 14.**Informations sur le Transport**

Étiquette pour le transport	Étiquette de danger de batterie au lithium de classe 9
Numéro onu	UN 3480
UN nom d'expédition approprié	Batteries Lithium ion (y compris batteries Lithium ion polymère)
Groupe d'emballage	Section IB
Polluant marin	NO
EmS non:	F-A , S-I

Classification des risques: les marchandises sont conformes aux exigences de la Section II de Instructions d'emballage 965 du 64e manuel DGR de l'IATA (édition 2023), CODE IMDG (Amdt. 40-20) (édition 2020), y compris la réussite du test UN38.3.

La Section 15.

Informations sur la réglementation

Information sur le droit

«Règlement sur les marchandises dangereuses»

«Recommandations concernant le règlement type sur le Transport des marchandises dangereuses»

"Marchandises dangereuses maritimes internationales"

"Instructions techniques pour la sécurité du Transport des marchandises dangereuses"

"Classification et code des marchandises dangereuses"

«Loi sur la sécurité et la santé au travail» (OSHA)

«Loi sur le contrôle des substances toxiques» (TSCA)

«Loi sur la sécurité des produits de consommation» (afpc)

«Loi fédérale sur la lutte contre la Pollution de l' environnement» (lfee)

«La loi sur la Pollution par les hydrocarbures» (OPA)

«Titre de la loi sur les modifications du superfonds et la réautorisation de nouveaux projets de loi: lipr (302/311/312/313)» (lep)

«Loi sur la Conservation et le rétablissement des ressources» (RCRA)

Loi sur la salubrité de l' eau potable (lwa)

«Proposition californienne 65»

«Code of Federal Regulations» (CFR)

Conformément à toutes les lois fédérales, étatiques et locales.

La Section 16.

Autres informations

Les informations ci-dessus sont correctes, mais ne contiennent pas toutes les informations et ne sont utilisées qu' à titre indicatif. Les informations contenues dans ce document sont basées sur nos connaissances actuelles, elles s' appliquent à ce produit comme pour le conseil de sécurité correct.

L' information ne garantit pas les propriétés de ce produit. Notre société n' est pas responsable des dommages causés par les produits.