POSITEC

Safety Data Sheet

Report No. 20210126019	
Version number 0	Issue Date 26- Jan-2021
Product name: WA3571 Lithium Battery Pack	Revision date N/A

1 SECTION1: Product and Company Identification

Product identifier

·Product name: WA3571 Lithium Battery Pack

Relevant identified uses of the substance or mixture and uses advise against

Identified uses : Please consult manufacture

Details of the supplier of the safety data sheet

Supplier : Positec Technology (China) Co., Ltd.

Address:No.18 Dongwang Road, Suzhou Industrial Park

Postcode:215123

E-mail: email@positecgroup.com

Tel:+86-512-65152888

Fax:+86-512-65152885

Emergency telephone number +86-512-65152888

2 SECTION 2:Hazards identification

Emergency situation: warning, do not open and disassemble it, and do not exposed to fire or open flame; Don't mix put batteries with different models and different types. It will expose and burn when in fire; Do not short circuit, extrusion, burning or remove the battery.

3 SECTION 3:Composition/information on ingredients

dangerous components.

Chemical Name	CAS Number	Material Composition
Fe	12597-68-1	0.85%
stannum	7440-31-5	0.61%
nickel	7440-02-0	0.01%
copper-beryllium alloy	11133-98-5	0.39%
Nylon6-GF30	25038-54-4	22.70%
glass fibre	65997-17-3	6.81%
EVA	24937-78-8	0.60%
PC	25037-45-0	0.19%
Butadiene acrylonitrile rubber	9003-18-3	0.24%
Resin epoxy	61788-97-4	1.87%
Iron	7439-89-6	11.61%
Carbon	7440-44-0	10.22%
Copper	7440-50-8	12.10%
Lithium nickelate	12031-65-1	4.96%
Aluminium	7429-90-5	4.40%
Lithium manganese oxide	12057-17-9	2.93%
dimethyl carbonate	616-38-6	2.87%

POSITEC

Safety Data Sheet

Report No. 20210126019	
Version number 0	Issue Date 26- Jan-2021
Product name: WA3571 Lithium Battery Pack	Revision date N/A

Manganese	7439-96-5	2.58%
cobalt lithium dioxide	12190-79-3	2.00%
Polyethylene	9002-88-4	1.86%
1,3-Dioxolan-2-one	96-49-1	1.46%
lithium hexafluorophosphate(1-)	21324-40-3	1.15%
Ethyl methyl carbonate	623-53-0	1.09%
Polypropylene	9003/7/0	0.88%
1-Propene homopolymer	9003-07-0	0.68%
Polyethylene terephthalate	25038-59-9	0.57%
Carbon black	1333-86-4	1.49%
Polyvinylidene fluoride	24937-79-9	0.36%
lithium carbonate	554-13-2	0.36%
2-Propenoic acid polymer with butyl 2-propenoate, ethenyl acetate and 2-ethylhexyl 2-propenoate	35239-19-1	0.96%
4-Fluoro-1,3-dioxolan-2-one	114435-02-8	0.29%
Carboxyl Methyl Cellulose	9004-32-4	0.18%
Butanedinitrile	110-61-2	0.10%
Octadecylcarbamic acid ethenyl ester homopolymer	36671-85-9	0.09%
Styrene, butadiene copolymer	9003-55-8	0.06%
titanium dioxide	13463-67-7	0.06%
Talc (Mg3H2(SiO3)4)	14807-96-6	0.06%
2-Methyl-2-propenoic acid methyl ester polymer with 1,3-butadiene, ethenylbenzene and 2-propenenitrile	9010-94-0	0.05%
2-Methyl-2-propenoic acid polymer with 1,3-butadiene and ethenylbenzene	9010-93-9	0.05%
Fatty acids, coco polymers with benzoic acid, pentaerythritol and phthalic anhydride	68604-67-1	0.04%
poly(1,4-butylene terephthalate)	24968-12-5	0.04%
lithium tetrafluoroborate, anhydrous	14283-07-9	0.01%
2-Propenenitrile polymer with 1,3-butadiene and ethenylbenzene	9003-56-9	0.01%
1,3-Bis(2,4,6-trioxoperhydropyrimidin-5-ylidene)isoindoline	36888-99-0	0.01%
Argentine	7440-22-4	0.15%

4 SECTION 4: First aid measures

For the material leaked from battery interior

Eye contact: if contact, rinse with clean water for at least 15mins, turns upper and lower eyelid until the chemical residue gone, then go to see doctor immediately.

Skin contact: if contact, rinse with suds. Meanwhile take off the polluted clothes and shoes. If chemical burns or continual stimulates, please go to see a doctor immediately.

Eat: go to see a doctor immediately

Inhalation: remove him to the area that with the clean air immediately , provide him artificial respiration if can not

POSITEC

Safety Data Sheet

Report No. 20210126019	
Version number 0	Issue Date 26- Jan-2021
Product name: WA3571 Lithium Battery Pack	Revision date N/A

breathe, don't use mouth-to-mouth breath method.
If has difficulty to breathe , given oxygen to overcome breathing problem. Go to see a doctor immediately.

5 SECTION 5: Fire fighting measures

·**Extinguishing media**
·**Suitable extinguishing agents:** CO_2, dry chemical powder, water spray.
·**Unsuitable extinguishing agents:** No information available.

·**Special hazards arising from the substance or mixture:** Not flammable.
·**Advice for firefighters:** Fire-fighters should wear appropriate breathing apparatus and protective equipment

6 SECTION 6: Accidental release measures

Personal precautions
Use personal protective clothing. Avoid contact with skin, eyes and clothing. Avoid breathing fume and gas.
Environmental precautions
Do not discharge into the drains/surface waters/groundwater.
Methods for cleaning up/taking up
Take up mechanically and send for disposal.

7 SECTION 7: Handling and storage

Handling
Advice on safe handling
Avoid short circuiting the battery. Avoid mechanical damage of the battery. Do not open or disassemble.
Advice on protection against fire and explosion
Keep away from open flames, hot surfaces and sources of ignition.
Storage
Requirements for storage rooms and vessels
Storage at room temperature (approx. 20°C) at approx. 20 60% of the nominal capacity
Keep in closed original container..

8 SECTION 8: Exposure controls/personal protection

Engineering Control: Select the appropriate ventilation and temperature control equipment, which should be equipped with eye cleaning and shower equipment. Use local equipment to ensure its concentration under the limitation.

Eye protection: Not necessary under normal use. Wear safety goggles or glasses with side shields if handling a leaking or ruptured battery.

Hand protection: Not necessary under normal use. Wear rubber gloves if handling a leaking or ruptured battery.

POSITEC

Safety Data Sheet

Report No. 20210126019	
Version number 0	Issue Date 26- Jan-2021
Product name: WA3571 Lithium Battery Pack	Revision date N/A

Skin protection: Not necessary under normal use. Wear protection suit in case of handling a leaking or ruptured battery

Respiratory protection: Not necessary under normal use. Keep the air circulation in case of handling a leaking or ruptured battery. Do not use it in a narrow place in this case.

9 SECTION 9: Physical and chemical properties

Physical state: Solid
Color: black
Smell: N/A
Voltage: 20V
Weight: 711g
Capactity: 5.0Ah
Watt-hours of Battery: 90Wh
Solubility in water: Does not dissolve in water

10 SECTION 10: Stability and reactivity

Stability: It should be stable under the condition of normal storage and operation.
Conditions to avoid: Overheat; Exposure to humid conditions; Mechanical vibration
Taboo materials: strong oxidant
Hazardous decomposition products: Under the condition of burning may produce harmful decomposition products
Hazardous polymerization reaction: NA

11 SECTION 11: Toxicological information

- **Acute toxicity:** No data available.
- **Skin corrosion/irritation:** No irritant effect.
- **Serious eye damage/irritation:** No irritating effect.
- **Respiratory or skin sensitization:** No sensitizing effects known.
- **Specific target organ system toxicity:** No information available.
- **Toxicokinetics, metabolism and distribution:** No information available.
- **Aspiration hazard:** No information available.
- **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction):** No information available.

12 SECTION 12: Ecological information

There are no ecological injuries under normal usage. Do not flush into water or sanitary sewer system

13 SECTION 13: Disposal considerations

POSITEC

Safety Data Sheet

Report No. 20210126019	
Version number 0	Issue Date 26- Jan-2021
Product name: WA3571 Lithium Battery Pack	Revision date N/A

Advice on disposal

For recycling consult manufacturer.

Disposal in accordance with local regulations

14 SECTION 14: Transport information

The rechargeable Lithium-Ion battery pack as stated in Appendix are made in compliance to the requirements stated in the latest edition of the IATA Dangerous Goods Regulations Packing Instruction 965 section Ⅱ such that they can be transported as a NOT RESTRICTED (non-hazardous/non-dangerous) goods.

With regard to transport, the following regulations are cited and considered:

- The International Civil Aviation Organization (ICAO) Technical Instructions, Packing Instruction 965, Section Ⅱ (2017-2018 Edition),
- The International Air Transport Association (IATA) Dangerous Goods Regulations, Packing Instruction 965, Section Ⅱ (62th Edition, 2021)
- The International Maritime Dangerous Goods (IMDG) Code (39th 2018 Edition),
- US Harzardous Materials Regulations 49 CFR(Code of Federal Regulations) Sections 173-185 Lithium batterie and cells,
- The UN Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria 38.3 Lithium batteries, Rev.7.

DOT

Proper Shipping Name	Lithium ion battery
Hazard Class	9
Emergency Response Guide	147
UN number	3480

TDG Not regulated

MEX Not regulated

ICAO (air) The goods meet the requirements is General Requirements and section Ⅱ of Packing Instruction 965

Proper Shipping Name	Lithium ion battery
Hazard Class	9
UN number	3480
Net weigh	Not exceed 10Kg
Total quantity	Not exceed 2 pcs.

IATA The goods meet the requirements is General Requirements and section Ⅱ of Packing Instruction 965

Proper Shipping Name	Lithium ion battery
Hazard Class	9
UN number	3480
Net weigh	Not exceed 10Kg
Total quantity	Not exceed 2 pcs.

IMDG The article is not restricted to IMO IMDG Code according to Special Provision 188

Proper Shipping Name	Lithium ion battery
Hazard Class	9
UN number	3480
EmS-No.	F-A, S-I

RID Not regulated

ADR The article is not restricted to ADR according to Special Provision 188

POSITEC

Safety Data Sheet

Report No. 20210126019	
Version number 0	Issue Date 26- Jan-2021
Product name: WA3571 Lithium Battery Pack	Revision date N/A

Proper Shipping Name	Lithium ion battery
Hazard Class	9
UN number	3480
EmS-No	F-A, S-I

ADN	Not regulated

Our products are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to all the applicable international and national governmental regulations, not limited to the above mentioned. We further certify that the enclosed products have been tested and fulfilled the requirements and conditions in accordance with UN Recommendations (T1 – T8) on the Transport of Dangerous Goods Model Regulations and the Manual of Testes and Criteria that can be treated as “Non-Dangerous Goods”.

Test results of the UN Recommendation on the Transport of Dangerous Goods Manual of Test and Criteria (38.3 Lithium battery)	Test Results	Remark
No .	Test item	
T1	Altitude Simulation	Pass
T2	Thermal Test	Pass
T3	Vibration	Pass
T4	Shock	Pass
T5	External Short Circuit	Pass
T6	Impact	Pass
T7	Overcharge	Pass
T8	Forced Discharge	Pass

15 SECTION 15: Regulatory information

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

USA or EU Regulation:

Authorizations : No information available.

Restrictions on use: No information available.

16 SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

POSITEC

Safety Data Sheet

Report No. 20210126019	
Version number 0	Issue Date 26- Jan-2021
Product name: WA3571 Lithium Battery Pack	Revision date N/A

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Author	Reviewer	Approval
Yuying Wu 26- Jan-2021	Jennifer Chen 26- Jan-2021	Allen Ding 26- Jan-2021

----End of Safety Data Sheet---