

Report No. 20201110002	
Version number 0	Issue Date 10- Nov-2020
Product name: WA3014 Lithium Battery Pack	Revision date N/A

1 SECTION1: Product and Company Identification

Product identifier

·Product name:WA3014 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
PA6+GF30	25038-54-4	37.97%
TPE	9002-86-2	0.11%
epoxy resin	61788-97-1	0.18%
Iron	7439-89-6	11.45%
Carbon	7440-44-0	9.27%
Copper	7440-50-8	9.68%
Lithium nickelate	12031-65-1	4.48%
Aluminium	7429-90-5	3.59%
Lithium manganese oxide	12057-17-9	2.57%
dimethyl carbonate	616-38-6	2.58%
Manganese	7439-96-5	2.69%
cobalt lithium dioxide	12190-79-3	1.57%
Polyethylene	9002-88-4	1.42%
Nickel	7440-02-0	2.98%
Oxygen	7782-44-7	1.43%
1,3-Dioxolan-2-one	96-49-1	1.24%
lithium hexafluorophosphate(1-)	21324-40-3	1.25%

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Ethyl methyl carbonate	623-53-0	0.45%
Polypropylene	9003-07-04	0.61%
1-Propene homopolymer	9003-07-0	0.36%
Polyethylene terephthalate	25038-59-9	0.78%
Carbon black	1333-86-4	0.38%
Polyvinylidene fluoride	24937-79-9	0.47%
lithium carbonate	554-13-2	0.95%
2-Propenoic acid polymer with butyl 2-propenoate, ethenyl acetate and 2-ethylhexyl 2-propenoate	35239-19-1	0.27%
4-Fluoro-1,3-dioxolan-2-one	114435-02-8	0.18%
Carboxyl Methyl Cellulose	9004-32-4	0.13%
Butanedinitrile	110-61-2	0.13%
Octadecylcarbamic acid ethenyl ester homopolymer	36671-85-9	0.05%
Styrene, butadiene copolymer	9003-55-8	0.07%
titanium dioxide	13463-67-7	0.05%
Talc (Mg ₃ H ₂ (SiO ₃) ₄)	14807-96-6	0.05%
2-Methyl-2-propenoic acid methyl ester polymer with 1,3-butadiene, ethenylbenzene and 2-propenenitrile	9010-94-0	0.04%
2-Methyl-2-propenoic acid polymer with 1,3-butadiene and ethenylbenzene	9010-93-9	0.04%
Fatty acids, coco polymers with benzoic acid, pentaerythritol and phthalic anhydride	68604-67-1	0.04%
poly(1,4-butylene terephthalate)	24968-12-5	0.02%
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%
stannum	7440-31-5	0.26%
Argentine	7440-22-4	0.18%

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 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

Report No. 20201110002	
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- Suitable extinguishing agents:** CO₂, 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.

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.

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9 SECTION 9: Physical and chemical properties

Physical state: Solid

Color: black

Smell: N/A

Voltage: 20V

Weight: 650g

Capacity: 4.0Ah

Watt-hours of Battery: 72Wh

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 (carcinogenicity, 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

Advice on disposal

For recycling consult manufacturer.

Disposal in accordance with local regulations

14 SECTION 14: Transport information

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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 (61th Edition, 2019)
- The International Maritime Dangerous Goods (IMDG) Code (39th 2018 Edition),
- US Hazardous 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.6, Amend.1

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

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

ADN

Not regulated

Report No. 20201110002	
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Product name: WA3014 Lithium Battery Pack	Revision date N/A

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.

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.



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Product name: WA3014 Lithium Battery Pack	Revision date N/A

Author	Reviewer	Approval
Yuying Wu 10- Nov-2020	Jennifer Chen 10- Nov-2020	Allen Ding 10- Nov-2020

---End of Safety Data Sheet---

Safety Data Sheet



Report No. 20201117006	
Version number 0	Issue Date 17-Nov 2020
Product name: WG730E LAWN MOWER	Revision date N/A

1 SECTION1: Product and Company Identification

Product identifier

- Product name: WG730E LAWN MOWER

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

GHS Classification

Not classified

Label elements

Symbols/Pictograms	None
Signal word	None
Hazard Statements	None
Precautionary Statements	
Prevention	None
Response	None
Storage	None
Disposal	None

Hazards not otherwise classified

No information available

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Product name: WG730E LAWN MOWER	Revision date N/A

Unknown acute toxicity

No information available

3 SECTION 3:Composition/information on ingredients

Battery Pack WA3014 dangerous components.

Chemical Name	CAS Number	Material Composition
PA6	107-10-8	21.95%
Glass Fibre	65997-17-3	6.59%
EVA	24937-78-8	0.33%
Iron	7439-89-6	12.62%
Carbon	7440-44-0	11.08%
Copper	7440-50-8	11.41%
Lithium nickelate	12031-65-1	5.29%
Aluminium	7429-90-5	4.68%
Lithium manganese oxide	12057-17-9	3.17%
Dimethyl Carbonate	616-38-6	3.09%
Manganese	7439-96-5	2.76%
Cobalt Lithium Dioxide	12190-79-3	2.12%
Polyethylene	9002-88-4	1.97%
Nickel	7440-02-0	3.63%
Oxygen	7782-44-7	1.61%
1,3-Dioxolan-2-one	96-49-1	1.26%
lithium hexafluorophosphate(1-)	21324-40-3	1.20%
Ethyl methyl carbonate	623-53-0	0.97%
Polypropyllene	9003-07-04	0.76%
1-Propene homopolymer	9003-07-0	0.62%

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Polyethylene terephthalate	25038-59-9	0.54%
Carbon black	1333-86-4	0.39%
Polyvinylidene fluoride	24937-79-9	0.39%
lithium carbonate	554-13-2	0.33%
2-Propenoic acid polymer with butyl 2-propenoate, ethenyl acetate and 2-ethylhexyl 2-propenoate	35239-19-1	0.30%
4-Fluoro-1,3-dioxolan-2-one	114435-02-8	0.20%
Carboxyl Methyl Cellulose	9004-32-4	0.12%
Butanedinitrile	110-61-2	0.10%
Octadecylcarbamic acid ethenyl ester homopolymer	36671-85-9	0.07%
Styrene, butadiene copolymer	9003-55-8	0.07%
titanium dioxide	13463-67-7	0.07%
Talc (Mg ₃ H ₂ (SiO ₃) 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	0.05%
poly(1,4-butylene terephthalate)	24968-12-5	0.05%
lithium tetrafluoroborate, anhydrous	14283-07-9	0.02%
2-Propenenitrile polymer with 1,3-butadiene and ethenylbenzene	9003-56-9	0.02%
1,3-Bis(2,4,6-trioxoperhydropyrimidin-5-ylidene)isoindoline	36888-99-0	0.02%
Magnesium	7439-95-4	0.02%

4 SECTION 4: First aid measures

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Version number 0	Issue Date 17-Nov 2020
Product name: WG730E LAWN MOWER	Revision date N/A

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 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:** CO₂, 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.

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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.

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.

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9 SECTION 9: Physical and chemical properties

Battery pack model: WA3014

Physical state: Solid

Color: black

Smell: N/A

Voltage: 20V Max(18V d.c.)

Weight: 600g

Capacity: 4.0Ah

Watt-hours of Battery: 72Wh

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.

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Report No. 20201117006	
Version number 0	Issue Date 17-Nov 2020
Product name: WG730E LAWN MOWER	Revision date N/A

- **Specific target organ system toxicity:** No information available.
- **Toxicokinetics, metabolism and distribution:** No information available.
- **Aspiration hazard:** No information available.
- **CMR effects (carcinogenicity, 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

Advice on disposal

For recycling consult manufacturer.

Disposal in accordance with local regulations

14 SECTION 14: Transport information

The lithium-ion battery packs are pack with an equipment are made in compliance to the requirements stated in the latest edition of the IATA Dangerous Goods Regulations Packing Instruction 966 section II (60th Edition, 2018),Section 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 966, Section II (60th Edition, 2018)
- The International Air Transport Association (IATA) Dangerous Goods Regulations, Packing Instruction 966, Section II (60th Edition, 2018)
- The International Maritime Dangerous Goods (IMDG) Code(38th-16)
- 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.5, Amend.1

DOT

Proper Shipping Name

Lithium ion batteries contained in equipment

Hazard Class

9

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Emergency Response Guide	147
UN number	3481
<u>TDG</u>	Not regulated
<u>MEX</u>	Not regulated
<u>ICAO (air)</u>	The goods meet the requirement in General Requirements and section II of Packing Instruction 966
Proper Shipping Name	Lithium ion batteries contained in equipment
Hazard Class	9
UN number	3481
<u>IATA</u>	The goods meet the requirement in General Requirements and section II of Packing Instruction 966
Proper Shipping Name	Lithium ion batteries contained in equipment
Hazard Class	9
UN number	3481
<u>IMDG</u>	The article is not restricted to IMO IMDG Code according to Special Provision 188
Proper Shipping Name	Lithium ion batteries contained in equipment
Hazard Class	9
EmS-No.	F-A, S-I
UN number	3481
<u>RID</u>	Not regulated
<u>ADR</u>	The article is not restricted to ADR according to Special Provision 188
Proper Shipping Name	Lithium ion batteries contained in equipment
Hazard Class	9
UN number	3481
EmS-No	F-A, S-I
<u>ADN</u>	Not regulated

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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.

Safety Data Sheet



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Disclaimer

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Author	Reviewer	Approval
Yuying Wu 17-Nov 2020	Jennifer Chen 17-Nov 2020	Allen Ding 17-Nov 2020

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