

Material Safety Data Sheet

Report No.:	AGC12041210608UA02
Product Name:	Quantium Q-LBS Series
Product Designation	SL4576B 12.8V 100Ah 1280Wh Li-ion Battery Pack SL4576B 12.8V 100Ah 1280Wh
Applicant	Shenzhen Neata Power Tect Co.Ltd
Brand Name	N/A
Type/Model:	SL4576B 3.2V 100Ah Prismatic
Date of issue	2021-07-02
Standard(s)	GB/T16483-2008&ISO11014:2009
Report version	V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd.

Material Safety Data Sheet

GB/T16483-2008&ISO11014:2009
According to GB/T16483-2008&ISO11014:2009

Report Revise Record:				
Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0		2021-07-02	Valid	Original report

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEMICAL PRODUCT INFORMATION

Sample Name	Quantium Q-LBS Series	Sample Model	SL4576B
Sample Receiving Date	2021-06-12	Sample Uses	---

COMPANY INFORMATION

Applicant	SHENZHEN NEATA POWER TECH CO.,LTD
Client address	4TH BUILDING, JINGNENG INDUSTRIAL PARK, BAOLONG 2ND ROAD, LONGGANG DISTRICT, SHENZHEN, 518000 CHINA.
Manufacturer	SHENZHEN NEATA POWER TECH CO.,LTD
Manufacturer address	4TH BUILDING, JINGNENG INDUSTRIAL PARK, BAOLONG 2ND ROAD, LONGGANG DISTRICT, SHENZHEN, 518000 CHINA.
Telephone	0755-26919474
Fax number	0755-26919474
Post code	518000
Emergency telephone	0755-2691947
E-mail	mac@neata-batt.com

SECTION 2 - HAZARDS IDENTIFICATION

Emergency overview: No information available.

GHS:

Classification according to GHS: Not a dangerous substance according to GHS.

GHS Label elements

Hazard pictogram(s)	No available
Signal word	No available
Hazard statement(s)	No available

Precautionary statement(s)

Prevention	No available
Response	No available
Safe storage	No available
Disposal	Disposal

Physical and chemical risk: No information available.

Health hazard: No information available.

Environmental hazards: No information available.

Other hazards: No information available.

SECTION 3 - COMPOSITION, INFORMATION ON INGREDIENTS

Classification of the substance or mixture: substance mixture

Chemical Composition	CAS No.	EC#	Weight(%)
Ferrous Phosphate Lithium	15365-14-7	---	25-30
LiPF ₆	21324-40-3	244-334-7	15-22
Al	7429-90-5	231-072-3	5-8
Graphite	7782-42-5	231-955-3	8-12
Copper	7440-50-8	231-159-6	10-15
Nickel	7440-02-0	231-111-4	0.5-1
Stainless Steel	7439-89-6	231-096-4	22-30

Note:	CAS: Chemical Abstracts Service (Division of the American Chemical Society). EC#: European Inventory of Existing Commercial Chemical Substances. "---" : No Data.
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SECTION 4 - FIRST AID MEASURES

General information: No special measures required.

After inhalation: Remove victim to fresh area. Administer artificial respiration if breathing is difficult. Seek medical attention.

After skin contact: Remove contaminated clothing and shoes. Immediately wash with water and soap and rinse thoroughly. Wash clothing and shoes before reuse. If irritation occurs, get medical attention.

After eye contact: Flush eyes with plenty of water for several minutes while holding eyelids open. Get medical attention if irritation persists.

After swallowing: Do not induce vomiting. Get medical attention. Acute and delayed effects

The main symptoms: No relevant details information.

Health effects: No relevant details information.

To protect the rescuers advice: No relevant details information.

To the doctor's advice: Need timely medical treatment and special symptoms, no relevant details information.

SECTION 5 - FIRE FIGHTING MEASURES

Suitable extinguishing agents: Use extinguishing agent suitable for local conditions and the surrounding environment. Such as dry powder, CO₂.

Special hazards arising from the substance or mixture: Battery may burst and release hazardous decomposition products when exposed to a fire situation. Lithium ion batteries contain flammable electrolyte that may vent, ignite and produce sparks when subjected to high temperature (>150°C (302°F)), when damaged or abused (e.g. mechanical damage or electrical overcharging); may burn rapidly with flare-burning effect; may ignite other batteries in clothes proximity.

Attention extinguishing method and protective measures: Wear self-contained respirator. Wear fully protective impervious suit.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Homework personnel protective measures, protective equipment and emergency disposal procedures: Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation

Environmental precautions: Do not allow material to be released to the environment without proper governmental permits.

Steps to be taken in case material is spilled or released and Waste disposal method: Remove ignition sources, evacuate area. Sweep up using a method that does not generate dust. Collect as much of the spilled material as possible, placed the spilled material into a suitable disposal container. Keep spilled material out of sewers, ditches and bodies of water. All waste must refer to the United Nations, the national and local regulations for disposal.

To prevent the secondary disasters prevention measures: See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling: Consumption of food and beverage should be avoided in work areas. Wash hands with soap and water before eating, drinking. Ground containers when transferring liquid to prevent static accumulation and discharge.

Information about fire and explosion protection: Batteries may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity.

Conditions for safe storage, including any incompatibilities: Requirements to be met by storerooms and receptacles. Store in a cool, dry, well-ventilated place. Keep away from heat, avoiding the long time of sunlight.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Occupational exposure limit

Ingredients with limit values that require monitoring at the workplace: No relevant details information.

Biological limit: No relevant details information.

Detection: No relevant details information.

Engineering control

General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work.

Respiratory Protection: Use suitable respirator when high concentrations are present.

Personal Protection

Hand protection



Protective gloves

Eye protection



Tightly sealed goggles

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance

Black

Form

Almost Cuboid

Odour

Odorless

Electrical properties information	
Voltage	12.8V
Cell Voltage	3.2V
Electric capacity	100Ah
Watt-hour	1280Wh

SECTION 10 - STABILITY AND REACTIVITY

Chemical stability: Stable in normal circumstances.

Possibility of hazardous reactions: Data not available.

Conditions to Avoid: Flames, sparks, and other sources of ignition, incompatible materials.

Incompatibilities: Oxidizing agents, acid, base.

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

SECTION 11 - TOXICOLOGICAL INFORMATION

Information on toxicological effects

LC50/LD50:

Acute toxicity LD/LC50 Values relevant for classification: Not available.

LC50: (lethal concentration, 50 percent kill)

LD50: (lethal dose, 50 percent kill)

Skin irritation/corrosion: No further relevant information available.

Eyes stimulus/corrosion: No further relevant information available.

Breathing or skin irritation: No further relevant information available.

Germ cell respectively: No further relevant information available.

Carcinogenicity: No further relevant information available.

Reproductive toxicity: No relevant details information.

Specific target organ system toxicity disposable contact: No further relevant information available.

Specific target organ system toxicity, repeated contact: No further relevant information available.

Inhalation hazard: No further relevant information available.

Potentially harmful effects: No further relevant information available.

SECTION 12 - ECOLOGICAL INFORMATION

Ecological toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability: No further relevant information available.

Behaviour in environmental systems

Bioaccumulative potential: No further relevant information available.

Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

Ecological effects

Additional ecological information: No further relevant information available.

General notes: Do not allow material to be released to the environment without proper governmental permits.

Other adverse effects: No further relevant information available

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste treatment methods and Recommendation: Consult state, local or national regulations to ensure proper disposal.

Uncleaned packaging and Recommendation: Disposal must be made according to official regulations.

SECTION 14 - TRANSPORT INFORMATION

	IATA	IMDG
UN Number	UN3480	UN3480
UN Proper shipping name	Lithium Ion Batteries	Lithium Ion Batteries
Transport hazard class(es)	9	9
Packing group	II	II
Marine pollutant	No	

IATA: International Air Transport Association

IMDG: International Maritime Dangerous Goods

Transport information: The Lithium Battery (SL4576B 12.8V 100Ah) has passed the test UN38.3. According to the Packing Instruction 965 section IA of IATA DGR 62nd Edition for transportation. According to the special provision 188 of IMDG (39-18) or the <<Recommendations On The Transport Of Dangerous Goods-Model Regulations>> (20th). The package is subjected to dangerous goods.

More information concerning shipping, testing, marking and packaging can be obtained from Label master at <http://www.labelmaster.com>.

Separate Lithium-ion batteries when shipping to prevent short-circuiting. They should be packed in strong packaging for support during transport. Take in a cargo of them without falling, dropping, and breakage. Prevent collapse of cargo piles and wet by rain.

Note: Batteries weight in the package<5kg(By air, Batteries installed in equipment).

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Transport Fashion: By air, by sea, by railway, by road.

SECTION 15 - REGULATORY INFORMATION

MSDS (EC) No. 1907/2006.

This Material Safety Data Sheet complies with the requirements of Regulation (EC) No. 1907/2006.

The following laws, regulations, rules and standards of the substance or mixture of management to do the corresponding provisions:

Composition	CAS No.	IECSC	TSCA	DSL/NDSL	EINECS/ ELINCS/ NLP
Ferrous Phosphate Lithium	15365-14-7	Not Listed	Listed	DSL	Not Listed
LiPF ₆	21324-40-3	Listed	Listed	NDSL	Listed
Al	7429-90-5	Listed	Listed	DSL	Listed
Graphite	7782-42-5	Listed	Listed	DSL	Listed
Copper	7440-50-8	Listed	Listed	DSL	Listed
Nickel	7440-02-0	Listed	Listed	DSL	Listed
Stainless Steel	7439-89-6	Listed	Listed	DSL	Listed

EINECS: European Inventory of Existing Chemical Substances

ELINCS: European List of Notified Chemical Substances

DSL: Canadian Domestic Chemical Substances

IECSC: Inventory of Existing Chemical Substances in China

NDSL: Canadian non-domestic Chemical Substances

NLP:

TSCA: TSCA: Toxic Substances Control Act of USA

SECTION 16 - ADDITIONAL INFORMATION

Declare to reader

The above information is based on the data of which we are aware and is believed to be correct as of the data hereof. Since this information may be applied under conditions beyond our control and with which may be unfamiliar and since data made available subsequent to the data hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

Prepared by

Checked by

Approved by

SAMPLE REFERENCE PHOTO

SL4576B 3.2V 100Ah Prismatic



AGC authenticate the photo on original report only

Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").
2. Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. The non-CMA report issued by AGC is only permitted to be used by the client as internal reference use and shall not be used for public demonstration purpose.
5. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
6. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
7. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
8. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
9. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
10. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.