



中国认可
检验
INSPECTION
CNAS IB0071



NO.2619100115

SAFETY DATA SHEET

Product Name: Lithium battery: BT 40Li 2.0, valtage: 36V 40Vmax, capacity: 2.0Ah, 80Wh

Effective Date: 2019-11-14

Compiler: Liu Linlin

Checker: Dongxuesheng

Approver: Zhangxiaojin



Shanghai Research Institute of Chemical Industry Testing Co., Ltd.



KINGCLEAN ELECTRIC GREEN TECHNOLOGY (SUZHOU) CO.LTD

SAFETY DATA SHEET

lithium battery: BT 40Li 2.0, valtage: 36V 40Vmax, capacity: 2.0Ah, 80Wh

SECTION1 PRODUCT AND COMPANY IDENTIFICATION

Product name: lithium battery: BT 40Li 2.0, valtage: 36V 40Vmax, capacity: 2.0Ah, 80Wh
 Company: KINGCLEAN ELECTRIC GREEN TECHNOLOGY (SUZHOU) CO. LTD
 Address: No. 55, Shilin Road, Xuguan District, Suzhou New District, Suzhou, Jiangsu, 215151, P. R. China
 Email: Yulan.Gao@kingclean.com
 Fax: 86-512-66575101
 Emergency Phone: 86-512-69583708
 SDS Number: 2619100115
 Effective Date: 2019-11-14

SECTION2 HAZARDS IDENTIFICATION

Hazards Identification:

The battery has passed the test items of UN Model Regulations, Manual of Test and Criteria Section UN 38.3.

Emergency Overview:

Caution: Avoid contact and inhalation the electrolyte contained inside the battery.

SECTION3 INFORMATION ON INGREDIENTS

Product name: lithium battery: BT 40Li 2.0, valtage: 36V 40Vmax, capacity: 2.0Ah, 80Wh

Ingredient	Concentration	CAS No.	EC No.
Lithium Nickel Cobalt Manganese Oxide	33%	182442-95-1	695-690-9
Iron	19%	7439-89-6	231-096-4
Graphite	17%	7782-42-5	231-955-3
Copper	14%	7440-50-8	231-159-6
Dimetyle cabonate	7%	616-38-6	210-478-4
Aluminum	5%	7429-90-5	231-072-3
Ethylen cabonate	3%	623-53-0	433-480-9
Lithium hexafluorophosphate	2%	21324-40-3	244-334-7

SECTION4 FIRST-AID MEASURES

Skin Exposure:

If the internal battery materials of an opened battery cell come into contact with the skin, immediately flush with plenty of water.

Eye Exposure:

In case of the internal battery materials in contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Inhalation Exposure:

If inhaled the internal materials of battery, remove immediately to fresh air and seek medical attention.

Oral Exposure:

If swallowed the internal materials of battery, do not induce vomiting. Seek immediate medical attention.

SECTION5 FIRE FIGHTING MEASURES

Extinguishing Media:

Suitable: Dry chemical, Sandy soil, Carbon dioxide or appropriate foam.

Firefighting:

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific hazards: Emit toxic fumes under fire conditions.

SECTION6 ACCIDENTAL RELEASE MEASURES

Procedure of Personal Precaution:

If batteries show signs of leaking, avoid skin or eye contact with the material leaking from the battery. Use chemical resistant rubber gloves and non-flammable absorbent materials for clean up. Mix with inert material (e.g. dry sand, vermiculite) and transfer to sealed container for disposal.

SECTION7 HANDLING AND STORAGE

Handling:

Keep away from ignition sources, heat and flame. Such batteries must be packed in inner packages in such a manner as to effectively prevent short circuits and to prevent movement which could lead to short circuits. Avoid mechanical or electrical abuse. More than a momentary short circuit will generally reduce the battery service life. Avoid reversing battery polarity within the battery assembly. In case of a battery unintentionally be crushed, rubber gloves must be used to handle all battery components. Avoid contact with eyes, skin. Avoid inhalation. No smoking at working site. Materials to Avoid: Strong oxidizing agents, Corrosives.

Storage:

Store in a cool, well-ventilated area. Keep away from ignition sources, heat and flame. Such batteries must be packed in inner packages in such a manner as to effectively prevent short circuits and to prevent movement which could lead to short circuits. Materials to Avoid: Strong oxidizing agents, Corrosives.

SECTION8 EXPOSURE CONTROL/PPE**Engineering Controls:**

Use ventilation equipment if available. Safety shower and eye bath.

Personal Protective Equipment:

Respiratory System: Not necessary under conditions of normal use.

Eyes: Not necessary under conditions of normal use.

Clothing: Wear appropriate protective clothing.

Hand: Safety gloves.

Other Protect:

No smoking, drinking and eating at working site. Wash thoroughly after handling.

SECTION9 PHYSICAL/CHEMICAL PROPERTIES

Appearance: Black plastics cement shell

Odor: Odorless

Melting Point/°C: >300°C

Solubility: Partial soluble in water

SECTION10 STABILITY AND REACTIVITY**Stability:**

Stable under normal temperatures and pressures.

Conditions to Avoid:

Avoid exposure to heat and open flame. Avoid mechanical or electrical abuse. Prevent short circuits. Prevent movement which could lead to short circuits.

Materials to Avoid:

Strong oxidizing agents, Corrosives.

Hazardous Polymerization:

Will not occur.

Hazardous Decomposition Products:

Metal oxides, CO, CO₂.

SECTION11 TOXICOLOGICAL INFORMATION**Toxicity Data:**

Not available.

Irritation Data:

The internal battery materials may cause irritation to eyes and skin.

SECTION12 ECOLOGICAL INFORMATION

No data available.

SECTION13 DISPOSAL CONSIDERATION**Appropriate Method of Disposal of Substance:**

Lithium batteries are best disposed of as a non-hazardous waste when fully or mostly discharged. Contact a licensed professional waste disposal service to dispose of large quantities materials.

SECTION14 TRANSPORT INFORMATION

The product has passed the test items of UN Model Regulations, Manual of Test and Criteria Section 38.3 and UN Model Regulations, SP188, 1.2m drop test.

IATA DGR (60th Edition): The product shall meet the General Requirements and section II of Packaging Instruction 965.

IMO IMDG Code (2016 Edition): The product is not restricted to the other provisions of IMO IMDG Code according to special provision 188.

SECTION15 REGULATORY INFORMATION**ICAO:**

1. Unless be exempted according to ICAO TI, the lithium ion cell/batteries (UN 3480, PI 965) and lithium metal cell/batteries (UN 3090, PI 968) are forbidden for carriage on passenger aircraft.
2. Unless be approved according to ICAO TI, Lithium ion cells/batteries (UN 3480, PI 965) must be offered for transport at a state of charge (SoC) not exceeding 30% of their rated design capacity.
3. A shipper is not permitted to offer for transport more than one (1) package prepared according to Section II of PI 965 and PI 968 in any single consignment. Not more than one (1) package prepared in accordance with Section II of PI 965 and PI 968 may be placed into an overpack.
4. Packages prepared according to Section II of PI 965 and PI 968 must be offered to the operator separately from other cargo and must not be loaded into a unit load device (ULD) before being offered to the operator.

SECTION16 OTHER INFORMATION**Date:**

2019-11-14

Department:

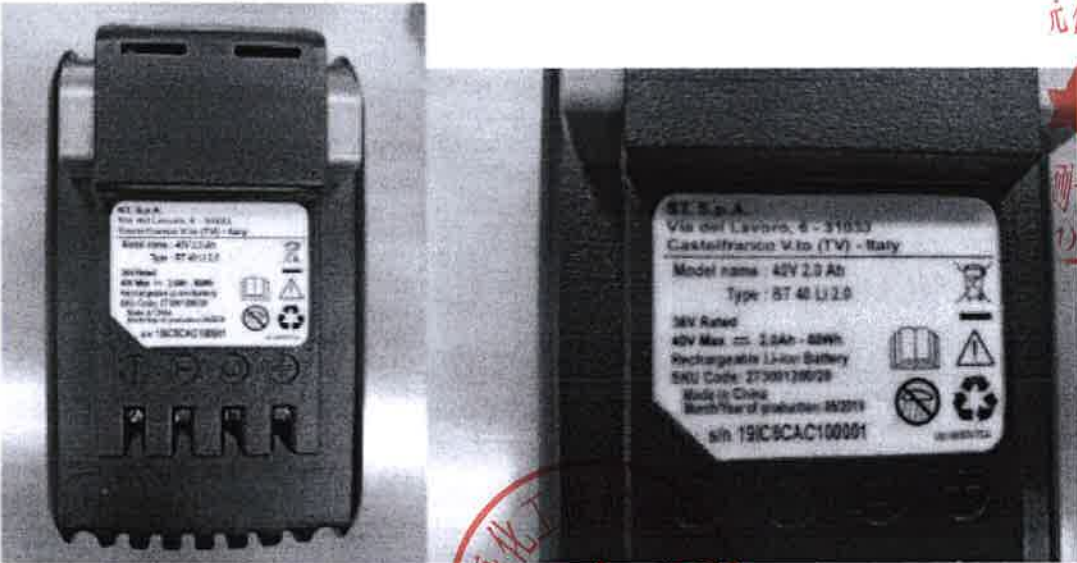
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Revision:

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Other Information:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. We make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes. In no way shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising from using the above information.



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(11)

ST S.p.A.
Via del Lavoro, 6 - 31033
Castelfranco V.to (TV) - Italy
Model name - 4S 2.0 Ah
Type - ST 40 Li2S

Warning:
4S Max. in 2.0Ah - 40Wh
Rechargeable Li-ion Battery
SKU Code: 27300120028
Made in China
Month/Year of production: 05/2011
s/n 19IC6CAC100001

ST S.p.A.
Via del Lavoro, 6 - 31033
Castelfranco V.to (TV) - Italy
Model name - 4S 2.0 Ah
Type - ST 40 Li2S

3.6V Rated
40V Max. cc. 2.0Ah - 40Wh
Rechargeable Li-ion Battery
SKU Code: 27300120028
Made in China
Month/Year of production: 05/2011
s/n 19IC6CAC100001

