



CNAS IB0071



NO.2615050017

SAFETY DATA SHEET

Product Name: Li-ion Battery Pack B05-3640 36V 4.0Ah 144Wh

Revision Date: 2015-06-23

Compiler: Shao Jun

Checker: Fengshuo

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Shanghai Research Institute of Chemical Industry Testing Centre

声 明

Statement

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The test report is invalid if it is not affixed the official seal of the laboratory to it.

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5. 未经本实验室书面批准，不得部分复制检验报告。

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6. 送样委托检验结果，仅对所送样品有效。

The conclusion of the consignment test is only valid for the provided sample.

7. 本检验报告以中文为准，英文文本（如有）仅为译文，两者发生冲突时，应以中文文本为准。

The test report has been drafted in Chinese and translated into English (if exist) for convenience only. In the event of discrepancy, the Chinese version shall prevail.

8. 除另有说明，检测检验类别都是指委托分析。

Unless noted otherwise, the test type is consignment test.

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银行帐号:

上海天科化工检测有限公司

31001547840050002326

中国建设银行股份有限公司上海怒江路支行

汇款用途：写明 检测 费

SUZHOU KINGCLEAN PRECISION MACHINERY CO., LTD.

SAFETY DATA SHEET

Li-ion Battery Pack B05-3640 36V 4.0Ah 144Wh

SECTION1 PRODUCT AND COMPANY IDENTIFICATION

Product name: Li-ion Battery Pack B05-3640 36V 4.0Ah 144Wh
Company: SUZHOU KINGCLEAN PRECISION MACHINERY CO., LTD.
Address: No. 99, Zhufeng Road, Mudu Town, Wuzhong District, Suzhou, Jiangsu Province, 215009, P. R. China
Email: Safaty-certification@kingclean.com
Fax: /
Emergency Phone: +86-512-69583708
SDS Number: 2615050017
SDS Date: 2015-06-23

SECTION2 HAZARDS IDENTIFICATION

Hazards Identification:

Class 9, miscellaneous. 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: Li-ion Battery Pack B05-3640 36V 4.0Ah 144Wh

Ingredient	Concentration	CAS No.	EC No.
Metal Oxide	25-35%	/	/
Aluminium	3-5%	7429-90-5	231-072-3
Graphite Carbon	12-17%	7782-42-5	231-955-3
Copper	10-20%	7440-50-8	231-159-6
Organic electrolyte	5-15%	/	/

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:

Acid 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

Not 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

TD/ADR: Proper Shipping Name: Lithium ion batteries

UN Number: UN3480

Hazard Class: 9

Packing Group: II

IATA: Proper Shipping Name: Lithium ion batteries

UN Number: UN3480

Hazard Class: 9

Packing Group: II

The product shall meet the General Requirements and section IA of Packaging Instruction 965 (IATA DGR).

IMO: Proper Shipping Name: Lithium ion batteries
UN Number: UN3480
Hazard Class: 9
Packing Group: II
EmS No. : F-A, S-I

SECTION15 REGULATORY INFORMATION

US DOT Effective December 29, 2004, the DOT requires that the outside of each package that contains primary lithium batteries, regardless of size or number of batteries, be labeled with the following statement: "PRIMARY LITHIUM BATTERIES-FOBIDDEN FOR TRANSPORT ABOARD PASSENGER AIRCRAFT". The labeling requirement covers shipments via highway, rail, vessel or cargo-only aircraft and covers all shipment inside, into or out of the US. The label must be in contrasting color and the letters must be 12 mm (0.5 in) in height for packages weighing more than 30 Kg and 6 mm (0.25 in) in height for packages weighting less than 30 Kg.

SECTION16 OTHER INFORMATION

Date:

2015-06-23

Department:

Shanghai Research Institute of Chemical Industry Testing Centre
Tel (Fax) :8621-52815377/52800971/52807275/52811034/52569800

Revision:

Other Information:

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