中国认可
检验
INSPECTION
CNAS IB0071

NO.2620070034

SAFETY DATA SHEET

Product Name: Rechargeable lithium-ion batteries
SYX-12V8Ah 11.1V 8Ah 88.8Ah

Effective Date: 2020-08-21

Compiler: Liu Linlin

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Approver: Zhangxiaojun

上海化工院检验有限公司 检验检测专用章

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

Yuanyang County Shengyuanxiang Lithium Battery Co., Ltd.

SAFETY DATA SHEET

Rechargeable lithium-ion batteries SYX-12V8Ah 11.1V 8Ah 88.8Ah

SECTION1 PRODUCT AND COMPANY IDENTIFICATION

Product name:	Rechargeable lithium-ion batteries SYX-12V8Ah 11.1V 8Ah 88.8Ah
Company: Address:	Yuanyang County Shengyuanxiang Lithium Battery Co., Ltd. No. 128, 10 meters south of west of the Dingzi Road, Xincun East Road, East Street, Yuanyang County, Xinxiang City, Henan Province, 453500, P.R.China
Email:	ZHANG131132879698163.com
Fax:	/
Emergency Phone:	86-13113287969
SDS Number:	2620070034
Effective Date:	2020-08-21

SECTION2 HAZARDS IDENTIFICATION

Hazards Identification:

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

Emergency Overview:

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

SECTION3 INFORMATION ON INGREDIENTS

Product name: Rechargeable lithium-ion batteries SYX-12V8Ah 11.1V 8Ah 88.8Ah

Ingredient	Concentration	CAS No.	EC No.
Lithium cobalt oxide	37.82%	12190-79-3	235-362-0
Lithium hexafluorophosphate	18.56%	21324-40-3	244-334-7
Graphite	16.48%	7782-42-5	231-955-3
Copper	9.74%	7440-50-8	231-159-6
Aluminum	9.03%	7429-90-5	231-072-3
Polyethylene	3.03%	9002-88-4	618-339-3
Polyvinylidene fluoride	1.46%	24937-79-9	607-458-6
Polypropylene	1.3%	9003-07-0	618-352-4
Nickel	1.08%	7440-02-0	231-111-4
Poly[imino(1-oxo-1,12-dodecanediyl)]	0.8%	24937-16-4	607-456-5

Styrene butadiene rubber	0.39%	61789-96-6	/
Carboxymethyl cellulose	0.31%	9000-11-7	618-326-2

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:	Blue plastic film shell
Odor:	Odorless
Melting Point/℃:	>300℃
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, CO_2.

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

Rechargeable Li-ion Battery contained in the 3JWB Type Electrostatic Sprayer during transport:	The product has passed the test items of UN Model Regulations, Manual of Test and Criteria Section 38.3. The total net weight of the lithium batteries is less than 5 kg.
IATA DGR (61st Edition) :	The product shall meet the General Requirements and section II of Packaging Instruction 967. According to 3.9.2.6.1(g) of IATA DGR (61st Edition) , Manufacturers and subsequent distributors of cells or batteries manufactured after 30 June 2003 shall make available the test summary as specified in the Manual of Tests and Criteria, Part III, sub-section 38.3, paragraph 38.3.5.
IMO IMDG Code(2018 Edition):	The product is not restricted to the other provisions of IMO IMDG Code according to special provision 188. According to 2.9.4.7 of IMDG Code(2018 Edition), Manufacturers and subsequent distributors of cells or batteries manufactured shall make available the test summary as specified in the Manual of Tests and Criteria, Part III, sub-section 38.3, paragraph 38.3.5.

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:

2020-08-21

Department:

Shanghai Research Institute of Chemical Industry Testing Co., Ltd.
Tel(Fax):+86-21-52815377/31765555

Revision:

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Other Information:

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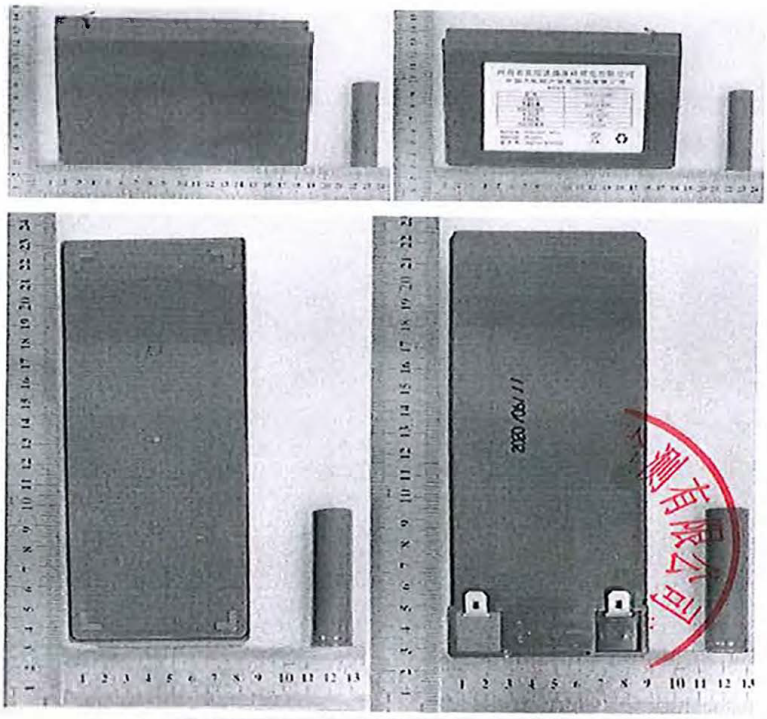

河南省原阳县盛源祥锂电有限公司

中国大地财产保险股份有限公司

保险单号：PZAH20410122040000000001

型号	SYX-12V 8Ah
标称电压	11.1V
容量/容量	88.8Ah
标定工作电流	1-5A
有效电压	8.5-12.6V
充电电压	1-4A
标准/最高电流	10-25A

执行标准：GB31241-2014

合格认证：ISO9001

准 号：03424C01815ROS

