



中国认可  
检验  
INSPECTION  
CNAS IB0071



NO.2620100138

# SAFETY DATASHEET

**Product Name:** Li-ion 18650 11.1V d.c 2200mAh

**Effective Date:** 2020-11-27

**Compiler:** Liu Linlin

**Checker:** Dongxuesheng

**Approver:** Zhangxiangjin



Shanghai Institute of Chemical Industry Testing Co., Ltd.



# 声 明

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

7. 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.

地址：上海市云岭东路 345 号

Address: No.345 East Yunling Road, Shanghai

邮政编码(Post Code): 200062

电话(Tel): (021) 31765555

传真(Fax): (021) 31015117

网址 (web site): [www.ghs.cn](http://www.ghs.cn)

电子信箱(E-mail): [fz@ghs.cn](mailto:fz@ghs.cn)

Shandong XINGYU New Energy Technology Co.,  
Ltd

## SAFETY DATA SHEET

### Li-ion 18650 11.1V d.c 2200mAh

#### SECTION1 PRODUCT AND COMPANY IDENTIFICATION

**Product name:** Li-ion 18650 11.1V d.c 2200mAh  
**Company:** Shandong XINGYU New Energy Technology Co., Ltd  
**Address:** Economic Development Zone, Qufu City, Shandong, 273100, P.R. China  
**Email:** info@xingyulibattery.com  
**Fax:** 86-537-3359797  
**Emergency Phone:** 86-15763712888  
**SDS Number:** 2620100138  
**Effective Date:** 2020-11-27

#### 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

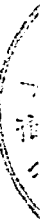
**Product name:** Li-ion 18650 11.1V d.c 2200mAh

Ingredient	Concentration	CAS No.	EC No.
Lithium nickel cobalt manganese oxide	20%	/	/
Lithium hexafluorophosphate	15%	21324-40-3	244-334-7
Carbon	11%	7440-44-0	231-153-3
Stainless steel	5%	/	/
Polypropylene	1%	9003-07-0	618-352-4

#### 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.

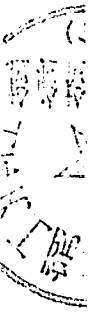
**Storage:**

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/°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, CO<sub>2</sub>.

**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**

Li-ion Battery  
contained in the  
Massage gun  
PL-651 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 (61<sup>st</sup> 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 (61<sup>st</sup> 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:

2020-11-27

#### 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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