

# 安全技术规格书

## (SDS)

产品名称:锂电池包 183411 18V 36Wh

Product name: Lithium-ion battery pack 183411  
18V 36Wh

生效日期:2021年03月22日

Date:2021.03.22

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宁波大叶园林设备股份有限公司



宁波大叶园林设备股份有限公司

Ningbo Daye Garden Machinery Co.,Ltd.

安全技术说明书

SDS

Safety Data Sheet

锂电池包 183411 18V 36Wh

Lithium-ion battery pack 183411

18V 36Wh

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第一部分 化学品及企业标识

**PART 1 PRODUCT AND COMPANY IDENTIFICATION**

产品名称: 锂电池包 183411 18V 36Wh

Product name: Lithium-ion battery pack 183411 18V 36Wh

企业名称: 宁波大叶园林设备股份有限公司

Company: Ningbo Daye Garden Machinery CO.,Ltd.

地址: 浙江省余姚市锦凤路58号 邮编: 315403

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生效日期：2021年03月22日

Effective Date: 2021.03.22

## 第二部分 危险性概述

### PART 2 HAZARDS IDENTIFICATION

危险性类别：非限制性货物。通过联合国《关于危险货物运输的建议书 试验和标准手册》UN38.3试验和《关于危险货物运输的建议书 规章范本》特殊规定188条款。

Hazard class: non-restricted cargo. Pass the United Nations 《Recommendations on the Transport of Dangerous Goods: Manual of Tests and Criteria》 UN38.3 test and special provisions 188 rules.

侵入途径：眼睛和皮肤接触、吸入电池内的物质。

Intrusive way: Avoid contact and inhalation the electrolyte contained inside the battery.

健康危害：无详细的毒理学研究。避免直接接触电池内的物质，防止吸入。

Health hazards: no detailed toxicological studies. Avoid direct contact with battery materials, prevent inhalation.

## 第三部分 成分/组成信息

### PART 3 INFORMATION ON INGREDIENTS

化学品名称：锂电池包 183411 18V 36Wh

Chemical Name : Lithium-ion battery pack 183411 18V 36Wh

成份 Ingredients	含量 Content	CAS NO.	EC NO.
锂镍锰钴合金 Lithium nickel manganese cobalt	<30%	/	/
石墨 Graphite	<15%	7782-42-5	/
碳酸亚乙酯 Ethylene carbonate	<4%	96-49-1	/
碳酸二甲酯 Dimethyl carbonate	<4%	616-38-6	/

六氟磷酸锂 Lithium hexafluorophosphate	<4%	21324-40-3	/
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#### 第四部分 急救措施

##### PART 4 FIRST-AID MEASURES

皮肤接触： 若接触到电池内的物质，立即用肥皂和大量清水彻底冲洗皮肤。

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

眼睛接触： 若接触到电池内的物质，立即提起眼睑，用流动清水冲洗15分钟以上。

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.

吸入： 若吸入电池内的物质，立即脱离现场至空气新鲜处并医治。

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

食入： 若食入电池内的物质，不宜催吐，立即就医。

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

#### 第五部分 消防措施

##### PART 5 FIRE FIGHTING MEASURES

危险特性： 不属于易燃危险品。

Dangerous Property: Not belonging to flammable and dangerous goods.

灭火方法及灭火剂： 可用干粉、砂土、泡沫和二氧化碳灭火。

Extinguishing Media: Dry chemical, sandy soil, carbon dioxide and appropriate foam.

灭火注意事项及措施： 消防员应戴自给正压式呼吸器，穿消防防护服以防止皮肤和眼睛接触。

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

#### 第六部分 泄漏应急处理

##### PART 6 ACCIDENTAL RELEASE MEASURES

若电池内的物质泄漏，用惰性材料吸附(如干沙、虫宝石)，收集于干燥、洁净、有盖的容器中待处置。处理人员应穿合适的防护服。

If batteries show signs of leaking, 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.

#### 第七部分 操作处置与储存

##### PART 7 HANDLING AND STORAGE

操作处置注意事项:

操作人员应经过培训,严格遵守操作规程。建议操作人员穿一般作业防护服,戴安全手套。远离火种、热源,避免阳光直射。工作场所严禁吸烟。工作场所应有通风系统和设备。避免随意拆卸电池和弄错正负极。须牢固在内包装中,以有效防止短路和防止可导致短路的移动。万一电池内的物质泄漏,避免眼睛、皮肤直接接触,避免吸入。应与强氧化剂、腐蚀品分开存放。

Handling: The operator shall be trained commensurate with responsibilities. 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.

储存注意事项:

储存于阴凉、通风的库房内。远离火种、热源,避免阳光直射。应与强氧化剂、腐蚀品分开存放。储存区配备相应品种和数量的消防器材、泄漏应急处理设备和合适的收容材料。

Storage: Store in a cool, well-ventilated area, Keep away from ignition sources, heat and flame. Such batteries must be packed 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.

## 第八部分 接触控制/个体防护

### PART 8 EXPOSURE CONTROL/PPE

最高容许浓度: 未制定标准。

Maximum permissible concentration : none.

监测方法: 无。

Monitoring method : none.

工程控制: 有通风系统和设备, 提供安全淋浴和洗眼设备。

Engineering Controls : Use ventilation equipment if available, Safety shower and eye bath.

呼吸系统防护: 正常使用情况下不需要。

Respiratory Protect : not necessary under conditions of normal use.

眼睛防护: 正常使用情况下不需要。

Eyes Protect : not necessary under conditions of normal use.

身体防护: 穿一般作业防护服。

Clothing Protect : wear appropriate protective clothing.

手防护: 戴安全手套。

Hand Protect : safety gloves.

其他防护: 工作现场严禁吸烟、进食。工作后, 淋浴更衣。

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

## 第九部分 理化特性

### PART 9 PHYSICAL/CHEMICAL PROPERTIES

外观: 黑色或白色塑胶外壳

Appearance: Black or off-white plastics cement shell

气味: 无臭

Odour : Odorless

熔点: >300° C  
Melting Point : >300° C  
溶解性: 部分溶于水  
Solubility : Partial soluble in water

#### 第十部分 稳定性与反应活性

##### PART 10 STABILITY AND REACTIVITY

稳定性: 常温常压下稳定。  
Stability : Stable under normal temperatures and pressures.  
避免接触的物质: 强氧化剂、腐蚀品。  
Materials to Avoid: Strong oxidizing agents, Corrosives.  
避免接触的条件: 误操作, 高温, 防止短路和防止可导致短路的移动。  
Conditions to Avoid: Avoid exposure to heat and open flame. Prevent short circuits. Prevent movement which could lead to short circuits.  
聚合危害: 不聚合。  
Hazardous Polymerization: Will not occur.  
有害分解产物: 金属氧化物、CO、CO<sub>2</sub>等。  
Hazardous Decomposition Products : Metal oxides, CO, CO<sub>2</sub>.

#### 第十一部分 毒理学资料

##### PART 11 TOXICOLOGICAL INFORMATION

急性毒性: 无资料。  
Toxicity Data : Not available.  
刺激性: 其中的电解质对眼睛、皮肤有刺激性。  
Irritation Data: The internal battery materials may cause irritation to eyes and skin.

#### 第十二部分 生态学资料

##### PART 12 ECOLOGICAL INFORMATION

生态毒性: 无资料  
Ecological toxicity : Not available  
生物降解性: 无资料  
Biodegradability: Not available  
非生物降解性: 无资料  
Non-biodegradability: Not available

#### 第十三部分 废弃处理

##### PART 13 DISPOSAL CONSIDERATION

废弃物性质: 废弃电池的处置应符合《中华人民共和国固体废物污染环境防治法》、《废电池污染防治技术政策》等有关法律、法规、政策和标准的要求。  
Nature of waste: the disposal of waste batteries shall meet 《Law of the People's Republic of China on the Prevention and Control of Solid Waste Pollution》 and 《Technical Policy for Pollution Prevention and Control of Waste Batteries》.

#### 第十四部分 运输信息

##### PART 14 TRANSPORT INFORMATION

通过联合国《关于危险货物运输的建议书 试验和标准手册》UN38.3试验和《关于危险货物运输的建议书 规章范本》特殊规定188条款。

Pass the United Nations 《Recommendations on the Transport of Dangerous Goods: Manual of Tests and Criteria》 UN38.3 test and special provisions 188 rules.

IATA:

运输名称:锂离子电池组

Proper Shipping Name : Lithium ion batteries

UN编号:UN3480

UN Number : UN3480

危险性类别:9

Hazard Class : 9

IMO:

运输名称:锂离子电池组

Proper Shipping Name : Lithium ion batteries

UN编号:UN3480

UN Number : UN3480

危险性类别:非限制性货物

Hazard Class : non-restricted cargo

RID/ADR

运输名称:锂离子电池组

Proper Shipping Name : Lithium ion batteries

UN编号:UN3480

UN Number : UN3480

危险性类别:非限制性货物

Hazard Class : non-restricted cargo

## 第十五部分 法规信息

### PART 15 REGULATORY INFORMATION

ICAO:

1. 除非依据《技术细则》的相关要求取得豁免, 单独包装的锂离子电池(芯) (UN 3480 ,PI 965) 和锂金属电池(芯) (UN 3090, PI 968) 货物禁止使用客机运输。

1.Unless be exempted according to ICAO TI, the lithium-ion cell/batteries (UN3480, PI965) and lithium metal cell/batteries (UN 3090, PI 968) are forbidden for carriage on passenger aircraft.

2. 除非依据《技术细则》的相关要求取得特别批准, 按照包装说明965要求运输的锂离子电池(芯)货物, 交运时锂离子电池(芯)的荷电状态不得超过其额定容量的30%。

2. Unless be approved according to ICAO TI, Lithium-ion cells/batteries (UN3480, PI965) must be offered for transport at a state of charge (SoC) not exceeding 30% Of their rated design capacity.

3. 在任何一票货物中, 按照包装说明965第II节或968第II节要求运输的锂电池货物包装件不得超过一个。每个集合包装中所装的按照包装说明965第II节或968第II节要求运输的锂电池货物包装件不得超过一个。

3. A shipper is not permitted to offer for transport more than one package prepared according to Section II of PI 965 and PI 968 in any single consignment. Not more than one package prepared In accordance with Section II of PI 965 and PI 968 may be placed into an overpack.

4. 按照包装说明965或968第II节要求运输的锂电池货物包装件或集合包装必须与其它货物分开交运,

且在交运前不得装入集装箱。

4. Packages prepared according to Section II of PI965 and PI968 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.

#### 第十六部分 其他信息

##### PART 16 OTHER INFORMATION

填表时间:	2021年03月22日
Date :	2021.03.22
填表部门:	宁波大叶园林设备股份有限公司
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修改信息:	第0次修订
Revision :	0
其他信息:	使用者有责任对说明书内容的正确性与完整性评估后，根据实际情况自行决定其适用性，并对使用后果承担法律责任。
Other Information:	After the user has the responsibility to evaluate the correctness and completeness of the contents of the manual, it shall determine its applicability according to the actual situation, and bear legal responsibility for the use consequences.