

# MSDS 报告 Report

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委托单位 深圳无限能源科技有限公司 Applicant SHENZHEN TOP ENERGY CO., LTD

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# 化学品安全技术说明书 **Material Safety Data Sheet** 依据 GB/T16483-2008&ISO11014:2009 编制

According to GB/T16483-2008&ISO11014:2009

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Report Version 版本号	Revise Time 修改次数	Issued Date 签发日期	Valid Version 有效性	Notes 备注
V1.0	11 S	2019-01-16	Valid 有效	Original report 原始报告

## 第一部分 化学品及企业标识 Section 1 - Chemical Product and Company Identification

化学品信息	20. A	A 10	Paris Manager		
Chemical product inform	nation				
样品名称	锂离子电池	样品型号	502240		
Sample Name	Li-ion Battery	Sample Model	502248		
收样日期	2018-12-29	产品推荐及限制用途	100		
Sample Receiving Date	2016-12-29	Sample Uses	418		
单位信息		J3. V	de aller		
Company information					
委托单位	深圳无限能源科技有限	· 公司			
Applicant	SHENZHEN TOP ENERGY CO., LTD				
委托单位地址	深圳市龙岗区葵涌镇奔康工业区 B16 栋				
Client address	B16 BUILDING, BANK	KANGINDUSTRIAL PACK	K, KUICHONG STREET,		
	LONGGANG DISTICT, SHENZHEN				
生产单位	深圳无限能源科技有限公司				
Manufacturer	SHENZHEN TOP ENERGY CO., LTD				
生产单位地址	深圳市龙岗区葵涌镇奔康工业区 B16 栋				
Manufacturer address B16 BUILDING, BANKANGINDUSTRIAL PACK, KUICHONG					
	LONGGANG DISTICT	, SHENZHEN			
联系电话					
Telephone	0755-89773611				
传真号码	0755-89773623	· .			
Fax number	0733-89773023				
邮政编码	518119				
Post code	310119				
应急电话	0755 00773(11				
<b>Emergency telephone</b>	0755-89773611				
电子邮件	4727(4250)				
E-mail	47376425@qq.com				

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## 第二部分 危险性概述 Section 2 - Hazards Identification

紧急情况概述: 无相关详细资料。

Emergency overview: No information available.

GHS 危险性分类:根据化学品全球统一分类与标签制度(GHS)的规定,不是危险物质。

GHS 7	标签要素
Label	elements
危害类型象形图	无数据
Hazard pictogram(s)	No available
警示词	无数据
Signal word	No available
危险性说明	无数据
Hazard statement(s)	No available
防薬	<b>芭说明</b>
Precautiona	ry statement(s)
预防措施	无数据
Prevention	No available
事故响应	无数据
Response	No available
安全储存	无数据
Safe storage	No available
废弃处置	无数据
Disposal	No available

物理和化学危险: 无相关详细资料。

Physical and chemical risk: No information available.

健康危害: 无相关详细资料。

Health hazard: No information available.

环境危害: 无相关详细资料。

Environmental hazards: No information available.

其它危害: 无相关详细资料。

Other hazards: No information available.

## 第三部分 成分/组成信息

Section 3 - Composition, Information on Ingredients

该物质或混合物的分类:□物质 □混合物

Classification of the substance or mixture: 

substance ⊠ mixture

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化学名称 Chemical Composition	CAS No.	EC#	百分含量 Weight(%)
钴酸锂 LiCoO2	12190-79-3	235-362-0	39
聚偏氟乙烯 (CH <sub>2</sub> CF <sub>2</sub> ) <sub>n</sub>	24937-79-9	200-867-7	2
石墨 C	7782-42-5	231-955-3	19
六氟磷酸锂 LiPF <sub>6</sub>	21324-40-3	244-334-7	2
碳酸乙烯酯 EC	96-49-1	202-510-0	9
碳酸二乙酯 DEC	105-58-8	212-786-4	6
丙二醇碳酸酯 PC	108-32-7	203-572-1	1
聚乙烯(C2H4)n	9002-88-4	200-815-3	1 4
铜 Cu	7440-50-8	231-159-6	11
镍 Nickel	7440-02-0	231-853-9	<u>C1</u>
铝 Al	7429-90-5	231-072-3	7

注Note: CAS: 化学文摘社Chemical Abstracts Service (Division of the American Chemical Society).

EC#: 欧洲现有商业化学品目录European Inventory of Existing Commercial Chemical Substances

"---": 无数据No Data

### 第四部分 急救措施 Section 4 - First Aid Measures

总说明:正常情况下,不需要特别的措施。

General information: No special measures required.

吸入: 立即将人员移至通风处,如果呼吸困难,速进行人工呼吸抢救。如症状持续,速就医。

**After inhalation:** Remove victim to fresh area. Administer artificial respiration if breathing is difficult. Seek medical attention.

**皮肤接触**:脱去污着衣物,用大量的水清洗,然后清洗双手,衣物清洗后再使用。如果症状持续, 速就医。

After skin contact: Remove contaminated clothing and shoes. Immediately wash with water and soap and rinse thoroughly. Wash clothing and shoes before reuse. If irritation occurs, get medical attention.

眼睛接触:张开眼睛在流水下冲洗数分钟,如果症状仍然持续,请咨询医生。

**After eye contact:** Flush eyes with plenty of water for several minutes while holding eyelids open. Get medical attention if irritation persists.

食入:禁止催吐,速就医。

After swallowing: Do not induce vomiting. Get medical attention.

急性和迟发效应

Acute and delayed effects

主要症状: 无相关详细资料。

The main symptoms: No relevant details information.

健康影响:无相关详细资料。

Health effects: No relevant details information.

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对保护施救者的忠告:无相关详细资料。

To protect the rescuers advice: No relevant details information.

对医生的建议:需要及时的医疗处理及特别处理的症状,无相关详细资料。

To the doctor's advice: Need timely medical treatment and special symptoms, no relevant details information.

## 第五部分 消防措施

#### Section 5 - Fire Fighting Measures

灭火剂: 使用适合当地情况和周围环境的灭火剂,如干粉, $CO_2$ 。

**Suitable extinguishing agents:** Use extinguishing agent suitable for local conditions and the surrounding environment. Such as dry powder, CO<sub>2</sub>.

**特别危险性:** 在起火条件下,电池可能会破裂,释放出有害的分解产物。在经受高温(> 150℃(302℃))时,含有易燃电解液的电池,可能泄漏,点燃,产生火花,当损坏或滥用(如机械损伤或过度充电)时,可能燃烧迅速与耀斑燃烧效果,也可能引燃其他在电池附近衣服。

**Special hazards arising from the substance or mixture:** Battery may burst and release hazardous decomposition products when exposed to a fire situation. Lithium ion batteries contain flammable electrolyte that may vent, ignite and produce sparks when subjected to high temperature(>150°C(302°F)), when damaged or abused (e.g. mechanical damage or electrical overcharging); may burn rapidly with flare-burning effect; may ignite other batteries in clothes proximity.

灭火方法注意事项及防护措施:如起火,佩戴自主呼吸机和防护服。

Attention extinguishing method and protective measures: Wear self-contained respirator. Wear fully protective impervious suit.

#### 第六部分 泄露应急处理

#### Section 6 - Accidental Release Measures

作业人员防护措施、防护装备和应急处置程序:穿上保护装备,疏散人群,确保有足够的通风。

Homework personnel protective measures, protective equipment and emergency disposal procedures:

Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation

环境保护措施: 若无政府许可, 勿将材料排入周围环境。

**Environmental precautions:** Do not allow material to be released to the environment without proper governmental permits.

**泄漏化学品的收容、清除方法及所使用的处置材料**:从泄露区移除所有的火源,隔离人员。用一个不产生粉尘的方法打扫处理泄漏物,尽可能多地收集泄漏处理物于有标签的合适的容器中。泄露处理物禁止倒入下水道,沟渠或水源。所有废弃物必须参照联合国,国家,地方性法规进行处置。

Steps to be taken in case material is spilled or released and Waste disposal method: Remove ignition sources, evacuate area. Sweep up using a method that does not generate dust. Collect as much of the spilled material as possible, placed the spilled material into a suitable disposal container. Keep spilled material out of sewers, ditches and bodies of water. All waste must refer to the United Nations, the national and local regulations for disposal.

**防止次生灾害的预防措施:** 有关安全处理的资料请参阅第七部分。有关个人保护装备的资料请参阅 第八部分。有关弃置的资料请参阅第十三部分。

**To prevent the secondary disasters prevention measures:** See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

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## 第七部分 操作处置与储存 Section 7 - Handling and Storage

**操作注意事项**:储存时远离食物和水源。吃饭喝水前彻底清洗双手。储有化学物的容器搬用时需防止静电的产生和积聚。

**Precautions for safe handling:** Consumption of food and beverage should be avoided in work areas. Wash hands with soap and water before eating, drinking. Ground containers when transferring liquid to prevent static accumulation and discharge.

**有关火灾及防止爆炸的资料**:电池在拆开、挤压、遇火或高温情况下,会引起起火或爆炸,严禁短 路或非正确操作。

**Information about fire and explosion protection:** Batteries may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity.

**储存注意事项**:储存在一个低温,干燥,通风良好的环境。远离热源,避免长时间阳光照射。未使用时密封容器。

Conditions for safe storage, including any incompatibilities: Requirements to be met by storerooms and receptacles. Store in a cool, dry, well-ventilated place. Keep away from heat, avoiding the long time of sunlight.

#### 第八部分 接触控制/个体防护 Section 8 - Exposure Controls, Personal Protection

#### 职业接触限值Occupational exposure limit

在工作场需要」	监控的限制成分
Ingredients with limit values that r	equire monitoring at the workplace:
12190-79-3 钴酸锂 1	Lithium Cobalt Oxide
TLV (USA)	$0.02$ mg/m $^3$ .
MAK(Germany)	$0.1 \text{mg/m}^3$ .

Note:TLV: Threshold Limit Value

生物限值:无相关详细资料。

Biological limit: no relevant details information.

检测方法: 无相关详细资料。

**Detection:** no relevant details information.

工程控制

**Engineering control** 

一**般保护和卫生措施**:当处理化学物品时,应遵循一般的预防措施。远离食物和水源。立即脱掉所有脏衣服或被污染的衣物。在休息之前和工作结束之后洗手。

General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work.

呼吸防护: 高浓度的情况时, 使用适当的呼吸器。

Respiratory Protection: Use suitable respirator when high concentrations are present.

个体防护设备Personal Protection

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手防护	眼睛防护		
Hand protection	Eye protection		
Protective gloves	Tightly sealed goggles		

## 第九部分 理化特性 Section 9 - Physical and Chemical Properties

可理及化学特性的信息 physical and chemical properties		
银色 Silvery		
方形 Prismatic		
无味 Odorless		
电性能信息 properties information		
3.7V		
3.7V		
500mAh		
1.85Wh		

## 第十部分 稳定性和反应活性 Section 10 - Stability and Reactivity

稳定性:正常情况下稳定。

Chemical stability: Stable in normal circumstances.

危险反应: 无资料。

Possibility of hazardous reactions: Data not available.

应避免条件:火焰,火花和其他热源,禁忌物。

Conditions to Avoid: Flames, sparks, and other sources of ignition, incompatible materials.

禁配物:氧化剂,酸,碱。

Incompatibilities: Oxidizing agents, acid, base. 危险的分解产物:二氧化碳,一氧化碳。

Hazardous Combustible Products: Carbon monoxide, carbon dioxide, lithium oxide fumes.

### 第十一部分 毒理学资料 Section 11 - Toxicological Information

对毒理学影响的信息

Information on toxicological effects

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急性毒性LC50/LD50: 无相关详细资料。

Acute toxicity LD/LC50 Values relevant for classification: Not available.

注: LC50: 半数致死浓度 (lethal concentration, 50 percent kill)

LD50: 半数致死剂量 (lethal dose, 50 percent kill)

皮肤刺激/腐蚀:无相关详细资料。

Skin irritation/corrosion: No further relevant information available.

眼睛刺激/腐蚀: 无相关详细资料。

Eves stimulus/corrosion: No further relevant information available.

呼吸或皮肤过敏:无相关详细资料。

Breathing or skin irritation: No further relevant information available.

生殖细胞突变性: 无相关详细资料。

Germ cell respectively: No further relevant information available.

致癌性:无相关详细资料。

Carcinogenicity: No further relevant information available.

生殖毒性: 无相关详细资料。

Reproductive toxicity: No relevant details information.

特异性靶器官系统毒性——一次性接触:无相关详细资料。

Specific target organ system toxicity disposable contact: No further relevant information available.

**特异性靶器官系统毒性——反复接触:** 无相关详细资料。

Specific target organ system toxicity, repeated contact: No further relevant information available.

吸入危害: 无相关详细资料。

Inhalation hazard: No further relevant information available.

潜在的有害效应: 无相关详细资料。

Potentially harmful effects: No further relevant information available.

#### 第十二部分 生态学资料

### Section 12 - Ecological Information

#### 生态毒性

**Ecological toxicity** 

水生毒性: 无相关详细资料。

Aquatic toxicity: No further relevant information available.

持久性和降解性:无相关详细资料。

Persistence and degradability: No further relevant information available.

环境系统习性

Behaviour in environmental systems

潜在的生物累积性: 无相关详细资料。

Bioaccumulative potential: No further relevant information available.

土壤内移动性: 无相关详细资料。

Mobility in soil: No further relevant information available.

生态学资料

**Ecological effects** 

**额外的生态学资料:** 无相关详细资料。

Additional ecological information: No further relevant information available.

**总括注解:** 若无政府许可,勿将材料排入周围环境。

**General notes:** Do not allow material to be released to the environment without proper governmental permits.

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其他副作用:无相关详细资料。

Other adverse effects: No further relevant information available.

#### 第十三部分 废弃处置 Section 13 - Disposal Considerations

废弃处置方法建议:请参考国家和地方的相关法规正确进行处理。

Waste treatment methods and Recommendation: Consult state, local or national regulations to ensure proper disposal.

受污染的容器和包装建议: 必须根据官方的规章来丢弃。

Uncleaned packaging and Recommendation: Disposal must be made according to official regulations.

## 第十四部分 运输信息 Section 14 - Transport Information

	IATA	IMDG		
联合国危险货物编号 UN Number	UN3480 UN3481	UN3480 UN3481		
55 T	锂离子电池	锂离子电池		
	Lithium Ion Batteries	Lithium Ion Batteries		
	锂离子电池与设备打包	锂离子电池与设备打包		
UN 运输专用名称	Lithium Ion Batteries Packed With	Lithium Ion Batteries Packed Witl		
UN Proper shipping name	Equipment	Equipment		
	锂离子电池装在设备中	锂离子电池装在设备中		
	Lithium Ion Batteries Contained In Equipment	Lithium Ion Batteries Contained I Equipment		
运输危险等级	0			
Transport hazard class(es)	9	9		
包装组别	<b>₩</b> 11	ОП		
Packing group	П	II .		
海运污染物质	否 No			
Marine pollutant		110		

注: IATA: 国际空运联合会(International Air Transport Association)
IMDG: 国际海运危险货物(International Maritime Dangerous Goods)

**运输信息:** 该锂电池(502248 3.7V 500mAh)已通过UN38.3测试。

Transport information: The Lithium Battery (502248 3.7V 500mAh) has passed the test UN38.3.

电池包装(502248 3.7V 500mAh)应遵守IATA DGR 60th版包装说明965/966/967的运输要求。

The package of battery (502248 3.7V 500mAh) should be complied with the requirements of Packing Instruction 965/966/967 of IATA DGR 60th Edition for transportation.

电池包装(502248 3.7V 500mAh)应遵守IMDG(39-18)或"关于危险货物运输的规章范本" 20th的特殊规定188。

The package of battery (502248 3.7V 500mAh) should be complied with the requirements of 188 of IMDG (39-18) or the <<Recommendations On The Transport Of Dangerous Goods-Model Regulations>> (20th).

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更多关于锂离子电池运输,测试,包装等相关规定请参见网址http://www.labelmaster.com.

More information concerning shipping, testing, marking and packaging can be obtained from Label master at http://www.labelmaster.com.

电池相互隔开并防止短路, 泄露, 并装放在结实的容器内运输。

**注**: 该电池在运输过程中应防止剧烈振动、冲击或挤压,防止日晒雨淋。具体细节请参照本文第七部分操作处置与储存。

Separate Lithium-ion batteries when shipping to prevent short-circuiting. They should be packed in strong packaging for support during transport. Take in a cargo of them without falling, dropping, and breakage. Prevent collapse of cargo piles and wet by rain.

备注: 电池净重 < 5kg(空运, 电池与设备打包运输)。

Note: Batteries weight in the package < 5kg(By air, Batteries packed with equipment).

备注: 电池净重 < 5kg(空运, 电池装在设备中运输)。

Note: Batteries weight in the package < 5kg(By air, Batteries installed in equipment).

运输方式: 空运,海运。

Transport Fashion: By air, by sea.

#### 第十五部分 法规信息

#### Section 15 - Regulatory Information

此MSDS符合法规(EC) No. 1907/2006.

This Material Safety Data Sheet complies with the requirements of Regulation (EC) No. 1907/2006. 下列法律、法规、规章和标准对该物质或混合物的管理做了相应的规定:

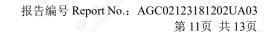
The following laws, regulations, rules and standards of the substance or mixture of management to do the corresponding provisions:

组成 Composition	CAS No.	IECSC	TSCA	DSL/NDSL	EINECS/ ELINCS/ NLP
钴酸锂 LiCoO2	12190-79-3	列入 Listed	列入 Listed	DSL	列入 Listed
聚偏氟乙烯 (CH <sub>2</sub> CF <sub>2</sub> ) <sub>n</sub>	24937-79-9	列入 Listed	列入 Listed	DSL	列入 Listed
石墨C	7782-42-5	列入 Listed	列入 Listed	DSL	列入 Listed
六氟磷酸锂 LiPF <sub>6</sub>	21324-40-3	列入 Listed	列入 Listed	NDSL	列入 Listed
碳酸乙烯酯 EC	96-49-1	列入 Listed	列入 Listed	DSL	列入 Listed
碳酸二乙酯 DEC	105-58-8	列入 Listed	列入 Listed	DSL	列入 Listed
丙二醇碳酸酯 PC	108-32-7	列入 Listed	列入 Listed	DSL	列入 Listed
聚乙烯(C <sub>2</sub> H <sub>4</sub> ) <sub>n</sub>	9002-88-4	列入 Listed	列入 Listed	DSL	列入 Listed
铜 Cu	7440-50-8	列入 Listed	列入 Listed	DSL	列入 Listed
镍 Nickel	7440-02-0	列入 Listed	列入 Listed	DSL	列入 Listed
铝 Al	7429-90-5	列入 Listed	列入 Listed	DSL	列入 Listed

注: EINECS: 欧盟现有化学物质名录(European Inventory of Existing Chemical Substances) ELINCS: 欧洲已申报化学物质名录(European List of Notified Chemical Substances)

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DSL: 加拿大国内化学物质名录(Canadian Domestic Chemical Substances)

IECSC: 中国现有化学物质名录(Inventory of Existing Chemical Substances in China)NDSL: 加拿大非国内化学物质名录(Canadian non-domestic Chemical Substances)

NLP: 欧盟不被认为是聚合物的名录

TSCA: 美国TSCA物质名录(Toxic Substances Control Act of USA)

#### 第十六部分 其他信息 Section 16 - Additional Information

#### 注意 Declare to reader:

上述信息是基于现有的数据信息,在实际应用过程中可能出现其他未预料的情况,其相应信息可能需要修改,我方不承担此项责任。在操作中请根据实际情况作出相应的正确的处置。

The above information is based on the data of which we are aware and is believed to be correct as of the data hereof. Since this information may be applied under conditions beyond our control and with which may be unfamiliar and since data made available subsequent to the data hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

主检人 Prepared by

审核人 Checked by

批准人 Approved by

于明

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散态体

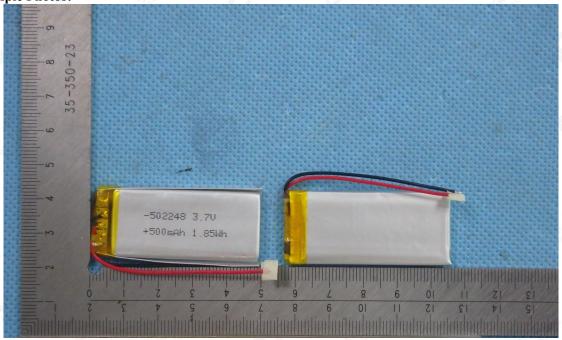
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#### 样品图片:

#### **Sample Photos:**



鑫宇环仅对原报告照片中的样品负责 AGC authenticate the photo on original report only

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#### 声 明 Statement

1、本报告无本单位报告专用章和批准人签章无效。

This report is invalid without the special seal for report of AGC and the signatures of approver.

2、本报告涂改和删除无效。

This report is invalid if it is blotted out and deleted.

3、委托单位对检测结果有异议,应于收到报告之日起十五日内向我司提出。

If the applicant has any questions about results, shall submit to AGC within 15 days.

4、本报告仅对客户所送样品负责。

This report is responsible for the sample provided by the client only.

5、 未经本单位许可, 不得部分复制、摘用本报告书内容。

This report shall not be reproduced except in full, or extracted, without the written approval of AGC.

6、客户必须如实提供样品及资料,否则本单位不承担任何相关责任。

The client should provide samples and relevant data, otherwise we will not bear any relevant responsibilities.

----报告结束---

\*\*\*End of report\*\*\*

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