

# Safety Data Sheet (SDS)

## 安全技术说明书

**Applicant's Name:** Soluciones Eléctricas del Este S.R.L. (RNC: 131289622)  
**委托方名称:** On behalf of our brand NOVA VOLT

**Applicant's Address:** CARRETERA VERON PUNTA CANA SECTOR DON ROGELIO  
**委托方地址:** ENTRANDO POR EL REMATON, VERON PUNTA CANA PROVINCIA LA ALTAGRACIA, Dominican Republic

**Name of Sample:** NOVA VOLT-LiFePo4 Battery  
**样品名称:** 磷酸铁锂电池

**Battery Family Name:** NOVA VOLT LiFePO4 Series

**Model:** CLW10KWH  
**型号:**

**Nominal Voltage:** 51.2V  
**标称电压:**

**Rated Capacity:** 200Ah, 10240Wh  
**额定容量:**

**Weight:** 87kg  
**重量:**

**Size: (LxWxT)** (710.0x450.0x230.0) mm  
**尺寸:**

**Prepared By:** Shenzhen TCT Testing Technology Co., Ltd.  
**编制单位:** 深圳市通测检测技术有限公司

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**No.:** TCT250905M037-1  
**编号:**

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**Effective Date 生效日期:** 2025. 09. 03



## Section 1- Identification of the substance/mixture and of the company/undertaking

### 第一部分 物质或混合物和供应商的标识

#### 1.1 Product identifier 产品标识

Name of Sample	LIFEPO4 BATTERY
样品名称	磷酸铁锂电池
Model	CLW10KWH
型号	

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against 产品的推荐用途和限制用途

Recommended Use	Used in consumer goods
建议用途	用于消费品
Uses advised against	No information available
限制用途	无资料

#### 1.3 Details of the supplier of the safety data sheet 供应商的详细资料

Manufacturer's Name	Guangdong Coolii New Energy Technology Co., Ltd.
生产单位名称	广东酷锂新能源科技有限公司
Manufacturer's Address	Building T3, Yichuang Road, Huangpu District, Guangzhou, Guangdong
生产单位地址	广东省广州市黄埔区亿创路 T3 栋
Phone	86-18664657973
电话	
Fax	/
传真	
E-mail	bill@coolithium.com
邮箱	

#### 1.4 Emergency telephone number 应急电话 86-18664657973

## Section 2- Hazards Identification

### 第二部分 危险标识

#### 2.1 Classification of the substance or mixture 物质或混合物的分类

According to the classification requirements of the 10th revision of the United Nations GHS system

根据联合国 GHS 制度第 10 修订版要求分类

Not applicable (Not within the scope of the 10th revised edition of the UNITED NATIONS GHS system.)

不适用（不在联合国 GHS 制度第 10 修订版范围内）

#### 2.2 Label elements 标签要素

**Symbols/Pictograms** Not applicable

象形图 不适用

**Signal word** Not applicable

信号词 不适用

**Hazard Statements** Not applicable

危险说明 不适用

#### **Precautionary statements** 防范说明

**Prevention** Not applicable

预防措施 不适用

**Response** Not applicable

事故响应 不适用

**Storage** Not applicable

安全储存 不适用

**Disposal** Not applicable

废弃处置 不适用

#### 2.3 Hazard description 危害描述

Contact with the electrolyte of battery may be irritating to skin, eyes and mucous membranes.

Fire will produce irritating, corrosive and/or toxic gases. Fumes may cause dizziness or suffocation.

与电池电解液接触可能会刺激皮肤、眼睛和粘膜。火灾会产生刺激性、腐蚀性和/或有毒气体。烟雾可能导致头晕或窒息。

Using the battery under normal conditions according to the manufacturer's instructions is not hazardous. In the case of improper use, there is a risk of rupture, fire, hot, leakage of internal components, and may cause accidental losses. Improper use includes, but is not limited to, the following conditions: prolonged charging, short circuit, fire exposure, hard object impact, sharp object puncture, fragmentation and rupture. 正常条件下根据制造商的说明使用电池不会产生危害。使用不当的情况下，有破裂、起火、发烫、内部成分泄露的危险，并可能造成意外损失。使用不当的行为包括但不限于下列情况：长时间充电、短路、投入火中、硬物撞击、尖物刺破、破碎和破裂。

## Section 3- Composition/Information on Ingredients

### 第三部分 成分/组成信息

#### Article 物品

Description 描述	Chemical Name 化学名称	CAS No. 化学文摘号	Content% 百分含量 %
Battery Cell 电芯	Lithium Iron Phosphate (LiFePO <sub>4</sub> ) 磷酸铁锂	20~40	15365-14-7
	Graphite 石墨	10~20	7782-42-5
	Iron 铁	10~20	7439-89-6
	Aluminum Foils 铝箔	5~10	7429-90-5
	Copper Foils 铜箔	1~10	7440-50-8
	Nickel 镍	1~5	7440-02-0
	Other 其他	1~5	N/A

## Section 4- First Aid Measures

### 第四部分 急救措施

#### 4.1 Description of first aid measures

##### 急救措施的描述

##### General advice

##### 一般建议

In case of accident or unwellness, seek medical advice immediately.

如果发生意外或不适，立即寻求医疗帮助。

##### Inhalation

##### 吸入

If fumes or combustion products are inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

如果吸入烟气或燃烧的产物，迅速脱离现场至空气新鲜处，保持呼吸通畅，若感到不适，寻求医生帮助。

##### Ingestion

##### 摄入

Give water to rinse out mouth, then drink plenty of water, vomiting, and go to a doctor.

用清水冲洗嘴巴，然后喝大量的水，催吐，并就医。

##### Eye contact

##### 眼睛接触

Keep eyelids apart and away from eye and moving the eyelids by lifting the upper and lower lids occasionally, flush eyes with plenty of water or saline water for at least 15 minutes, call a physician if irritation persists. 提起眼睑，用流动清水或生理盐水冲洗至少 15 分钟，若仍有刺激感，立即就医。

##### Skin contact

##### 皮肤接触

No apparent symptoms. If skin irritation persists, call a physician.

无明显症状，如果皮肤出现持续刺激，请就医。

**Protecting of  
first-aiders  
急救人员的防护**

Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.  
确保医护人员了解产品的危害特性, 并采取自身防护措施, 以保护自己和防止污染传播。

**4.2 Most important symptoms and effects, both acute and delayed****最重要的症状和效果, 急性和延迟**

Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

有限的证据表明反复或长期职业接触可能会产生涉及器官或生化系统累积性的健康影响

**4.3 Indication of any immediate medical attention and special treatment needed****紧急医疗处理和特殊处理的说明**

Treat symptomatically, Symptoms may be delayed.

根据症状治疗, 注意症状可能会出现延迟。

## Section 5- Fire Fighting Measures

### 第五部分 消防措施

**5.1 Extinguishing media 灭火介质****Suitable extinguishing  
media 合适的灭火剂**

Use fire extinguishing media suitable for the surrounding environment

使用适用于周围环境的灭火介质

**Unsuitable extinguishing  
media 不合适的灭火剂**

No information available

无资料

**5.2 Special hazards arising from the substance or mixture 源于此物质或混合物产生的特殊危害**

May decompose upon combustion to generate irritating, corrosive or toxic fumes. Fumes may cause dizziness or suffocation.

燃烧时可能分解, 产生刺激性、腐蚀性或有毒烟雾。烟雾可能引起头晕或窒息。

**5.3 Advice for firefighters 对消防人员的建议**

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear;  
消防人员应佩戴自给式呼吸器和全套的消防服;

Prevent, by any means available, spillage from entering drains or water courses;  
用任何方式, 防止泄漏进入下水道或河道;

Use water delivered as a fine spray to control fire and cool adjacent area.

用水作为一个很好的喷雾控制火和冷却的邻近区域。

## Section 6- Accidental Release Measures

### 第六部分 泄露应急处理

#### 6.1 Personal precautions, protective equipment and emergency procedures

##### 个人预防措施、防护装备和应急程序

If the battery material is released, remove personnel from area until fumes dissipate. Provide maximum ventilation to clear out hazardous gases. The preferred response is to leave the area, dispose the case after the batteries cool and vapors dissipate. Provide maximum ventilation.

Avoid skin and eye contact or inhalation of vapors.

如果电池材料被释放，请撤离该区域，直到烟雾消散。提供最大程度的通风，清除有害气体。最好的反应是离开该区域，在电池冷却和蒸汽消散后处理掉外壳。提供最大程度的通风。避免皮肤和眼睛接触或吸入蒸汽。

#### 6.2 Environmental precautions

##### 环境保护措施

Prevent product from entering drains

防止产品进入下水道。

#### 6.3 Methods and material for containment and cleaning up

##### 收集和清理的方法和材料

Pick up and transfer to properly labeled containers. Avoid generation of dust

收集和转移到合适的带标签的容器中，避免落灰。

#### 6.4 Reference to other sections

##### 参考其他部分

Personal Protective Equipment advice is contained in Section 8 of the SDS.

个人防护设备建议见 SDS 第 8 部分。

Disposal considerations advice is contained in Section 13 of the SDS.

废弃处置建议见 SDS 第 13 部分。

## Section 7- Handling and Storage

### 第七部分 操作处置与储存

#### 7.1 Precautions for safe handling 安全操作注意事项

Specific safe handling advice: Never throw out cells in a fire or expose to high temperatures. Do not soak cells in water and seawater. Do not expose to strong oxidizers. Do not give a strong mechanical shock or throw down. Never disassemble, modify or deform. Do not connect the positive terminal to the negative terminal with electrically conductive material.

具体的安全处理建议:不要将电池扔进火中或暴露在高温下。不要将电池浸泡在水中或海水中。不要暴露在强氧化剂中。不得造成强烈的机械冲击或摔倒。切勿拆卸、修改或变形。请勿用导电材料连接正极和负极。



## 7.2 Conditions for safe storage, including any incompatibilities

### 安全储存条件, 包括任何不相容性

Do not place the battery cell near heating equipment, nor expose to direct sunlight for long periods. Elevated temperatures can result in shortened battery cell life and degrade performance. Store in cool place. Incompatible products: Conductive materials, water, seawater, strong oxidizers and strong acids. Equipped with corresponding varieties and number of fire equipment and leakage emergency treatment equipment.

请勿将电池单体放置在加热设备附近, 也不要长时间暴露在阳光直射下。温度升高会缩短电池寿命, 降低电池性能。保存在阴凉的地方。不兼容产品: 导电材料、水、海水、强氧化剂、强酸。配备相应品种和数量的消防设备和泄漏应急处理设备。

## 7.3 Reference to other sections 特定用途

In addition to use mentioned in the Section 1.2, unforeseen other specific end uses.

除第 1.2 部分提及的用途外, 未预见其它具体用途。

# Section 8 - Exposure Controls/Personal Protection

## 第八部分 接触控制和个体防护

### 8.1 Control parameters 控制参数

<b>Occupational Exposure Limit, OEL 职业接触限值</b>	No relevant regulations 无相关规定
<b>Biological limit values 生物限值</b>	No relevant regulations 无相关规定
<b>Predicted No Effect Concentration (PNEC) 预测的无效应浓度</b>	No relevant regulations 无相关规定
<b>Derived No effect level, DNEL 衍生的无效应水平</b>	No relevant regulations 无相关规定

### 8.2 接触控制 (Exposure controls)

<b>Engineering Controls 工程控制</b>	Ensure adequate ventilation, especially in confined areas, Ensure that eyewash stations and safety showers are close to the workstation location, Use explosion-proof electrical/ventilating/lighting/equipment, Set up emergency exit and necessary risk-elimination area. 保持充分的通风, 特别在封闭区内; 确保在工作场所附近有洗眼和淋浴设施; 使用防爆电器、通风、照明等设备; 设置应急撤离通道和必要的泄险区。
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### Personal protective equipment

#### 个人防护设备

<b>Eye protection 眼睛防护</b>	Must wear appropriate anti-corrosion goggles. Wash hands or take a shower after working 必须佩戴合适的防腐蚀护目镜。
<b>Hand protection 手部防护</b>	Must wear acid and alkali resistant chemical protective gloves. 必须戴耐酸碱的化学防护手套。
<b>Respiratory protection 呼吸系统防护</b>	Must wear appropriate personal respiratory protective equipment. 必须佩戴合适的个人呼吸防护用品。
<b>Skin and body protection 皮肤和身体防护</b>	Must wear acid and alkali resistant chemical protective clothing. 必须穿抗酸碱化学防护服。

## Section 9- Physical and Chemical Properties

### 第九部分 理化特性

#### 9.1 Information on basic physical and chemical properties 理化特性

<b>Physical state</b> 物理状态	Solid 固体
<b>Colour</b> 颜色	Black and White 黑色和白色
<b>Odor</b> 气味	Odorless 无气味
<b>Odor threshold</b> 嗅觉阈值	Not applicable 不适用
<b>pH</b> pH 值	Not applicable 不适用
<b>Melting/freezing point</b> 熔点/凝固点	Not applicable 不适用
<b>Boiling Point, initial boiling point and Boiling range</b> 沸点/沸腾范围	Not applicable 不适用
<b>Flash Point (Closed cup, °C)</b> 闪点(闭杯, °C)	Not applicable 不适用
<b>Evaporation rate</b> 蒸发率	Not applicable 不适用
<b>Flammability</b> 可燃性	No information available 无资料
<b>Upper/lower flammability or explosive limits</b> 可燃性或爆炸性上/下限	No information available 无资料
<b>Vapor pressure</b> 蒸汽压	Not applicable 不适用
<b>Vapor Density (Air = 1)</b> 相对蒸汽密度 (空气=1)	Not applicable 不适用
<b>Density/relative density (Water=1)</b> 相对密度(水=1)	Not applicable 不适用
<b>Solubility</b> 溶解性	Not applicable 不适用
<b>n-octanol/water partition coefficient</b> 辛醇/水分配系数	Not applicable 不适用
<b>Autoignition temperature</b> 自燃温度(°C)	Not applicable 不适用
<b>Decomposition temperature</b> 分解温度(°C)	No information available 无资料



**Kinematic viscosity(mm²/s)**  
运动粘度(mm²/s)

Not applicable  
不适用

## 9.2 Other information 其他信息

No information available  
无资料

# Section 10 -Stability and Reactivity

## 第十部分 稳定性和反应性

### 10.1 Reactivity 反应性

Contact with incompatible substances can cause decomposition or other chemical reactions. 与不相容物质接触可发生分解或其它化学反应。

### 10.2 Chemical stability 化学稳定性

Stable under proper operation and storage conditions.  
在正确的使用和存储条件下是稳定的。

### 10.3 Possibility of hazardous reactions 危险反应的可能性

In contact with oxidants causes severe reactions, and may cause a fire or explosion. Flammable, its gas or powder, if in contact with air, may form explosive mixtures. In contact with metal alkoxides may cause a fire.

与氧化剂反应剧烈，有引起燃烧爆炸的危险。具有可燃性，其蒸气（或粉末）与空气接触可形成爆炸性混合物。与金属烷氧化物接触会发生着火。

### 10.4 Conditions to avoid 避免的条件

Do not subject battery to mechanical shock. Keep away from open flames, high temperature.  
不要使电池受到机械冲击。远离明火、高温。

### 10.5 Incompatible materials 禁配物

Conductive materials, water, seawater, strong oxidizers and strong acids.  
导电材料、水、海水、强氧化剂、强酸。

### 10.6 Hazardous decomposition products 有害的分解产物

Carbon oxides, other irritating and toxic gases.  
碳氧化物、其他刺激性和有毒气体。

# Section 11 – Toxicological Information

## 第十一部分 毒理学信息

### 11.1 Information on hazard classes 危险类别信息

**Acute toxicity**  
急毒性

According to the available information, it does not meet the classification criteria.  
根据现有资料，不符合分类标准。

**Skin corrosion/irritation**  
皮肤腐蚀/刺激

In the event of exposure to internal contents, vapor fumes may be very irritating to the skin and eyes.  
如果在内容物暴露的情况下，蒸汽烟雾可能对皮肤和眼睛非常刺激。

**Serious eye damage/eye irritation**

严重眼损伤/眼睛刺激

**Sensitization**

致敏作用

**Germ cell mutagenicity**

生殖细胞突变性

**Carcinogenicity**

致癌性

**Reproductive toxicity**

生殖毒性

**STOT - single exposure**

特定目标器官毒性-单次接触

**STOT - repeated exposure**

特定目标器官毒性-反复接触

**Aspiration hazard**

吸入性危害

In the event of exposure to internal contents, vapor fumes may be very irritating to the skin and eyes.

如果在内容物暴露的情况下，蒸汽烟雾可能对皮肤和眼睛非常刺激。

Not applicable

不适用

Not applicable

不适用

Not applicable

不适用

Not applicable

不适用

Not applicable

不适用

Not applicable

不适用

Not applicable

不适用

**11.2 Information on other hazards 其他危险信息**

**Endocrine disrupting properties**

内分泌干扰物特性

No information available

无可用资料

**Other Information 其他信息**

See Section 11.1

见第 11.1 节

**Section 12-Ecological Information**

**第十二部分 生态学信息**

**12.1 Toxicity 水毒性**

No information available

无可用资料

**12.2 Persistence and degradability 持久性和降解性**

No information available

无可用资料

**12.3 Bioaccumulative potential 生物积累的潜在可能性**

No information available

无可用资料

**12.4 Mobility in soil 土壤中移动性**

No information available

无可用资料

**12.5 Results of PBT and vPvB assessment PBT 和 vPvB 的结果评价**

No information available

无可用资料

## 12.6 Endocrine disrupting properties 内分泌干扰物特性

No information available

无可用资料

## 12.7 Other adverse effects 其他不利影响

No information available

无可用资料

# Section 13 – Disposal Considerations

## 第十三部分 废弃处置

### Waste treatment methods 废弃物处置方法

#### Product disposal recommendation

产品处理建议

#### Packaging disposal recommendation:

包装处理建议

#### Disposal recommendations

废弃注意事项

National and local regulations should be referred to before disposal.

处置之前应参阅国家和地方有关法规。

Packaging disposal recommendation: Containers may be recycled or re-used. Observe National and local regulations. 容器可以回收或者重用，遵守国家 and 地方有关法规。

Deserted batteries shouldn't be treated as ordinary trash.

Shouldn't be thrown into fire or placed in high temperature.

Shouldn't be dissected, pierced, crushed or treated similarly.

Best disposal method is recycling.

废电池不能被当作普通垃圾。不能扔进火中或置于高温下。不能解体，刺穿，破碎或类似的处理。最好的处理办法是回收利用。

# Section 14 – Transport Information

## 第十四部分 运输信息

ICAO/IATA 空运 (DGR 66th)	IMDG-CODE 海运危规 (Amdt 42-24)	ADR 公路运输 (ADR 2025)
<b>14.1 UN number or ID number 联合国危险货物编号</b>		
3480 & 3481	3480 & 3481	3480 & 3481
<b>14.2 Proper shipping name 正式运输名称</b>		
Lithium ion batteries (including lithium ion polymer batteries) or; 锂离子电池 (包括锂离子聚合物电池) 或; Lithium ion batteries packed with equipment (including lithium ion polymer batteries) or; 与设备一起包装的锂离子电池 (包括锂离子聚合物电池) 或; Lithium ion batteries contained in equipments (including lithium ion polymer batteries). 包含在设备中的锂离子电池 (包括锂离子聚合物电池)。		
<b>14.3 Transport hazard class(es) 运输危害分类</b>		
9	9	9
<b>14.4 Packing Group 包装等级</b>		
II (PI965 Section IA, 966 Section I) or N/A (PI967 Section I)		

II (包装说明 965 第 IA 部分, 966 第 I 部分) 或不适用 (包装说明 967 第 I 部分)		
<b>14.5 Marine pollutant 海洋污染物</b>		
No. 否	No. 否	No. 否
<b>14.6 Special precautions for user 用户特别注意事项</b>		
Can be shipped by air in accordance with international Civil Aviation Organization (ICAO), TI or International Air Transport Association (IATA) DGR Packing Instructions (PI) PI965 Section IA, PI966 and PI967 Section I appropriately. 可根据国际民用航空组织 (ICAO), TI 或国际航空协会 (IATA) DGR 包装说明 (PI) PI965 第 IA 部分, PI966 和 PI967 第 I 部分相关规定进行空运	International Maritime Dangerous Goods Code 《国际海运危险货物规则》 (IMDG CODE) 相关规定	European Agreement concerning the International Carriage of Dangerous Goods by Road 《国际危险货物道路运输欧洲协定》 (ADR) 相关规定

The dangerous goods regulations require that each battery design be subject to tests contained in Section 38.3 of the UN Manual of Tests and Criteria prior to being offered for transport. UN38.3 Report No.: TCT252506B030-1.

危险品规例规定, 运输前, 每一个电池设计须通过联合国试验和标准手册 38.3 节所载的测试。UN38.3 报告编号: TCT252506B030-1。

## Section 15 – Regulatory Information

### 第十五部分 法规信息

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture 针对该物质或混合物的安全, 健康和环境法规/立法

International chemical inventory  
国际化学品名录

With regard to transport, the following regulations are cited and considered:  
关于运输, 引用和考虑了以下法规:

Recommendations on the Transport of Dangerous Goods Model Regulations (TDG)  
关于危险货物运输的建议书规章范本 (TDG)

International Civil Aviation Association Dangerous Goods Regulation (IATA-DGR)  
国际民用航空协会《危险品规则》 (IATA-DGR)

International Maritime Dangerous Goods Code (IMDG-CODE)  
国际海运危险货物规则 (IMDG-CODE)

International Railway Transport Dangerous Goods Regulations (RID)  
国际铁路运输危险货物规则 (RID)

Agreement on the International Carriage of Dangerous Goods by Road (ADR)  
国际公路运输危险货物协定 (ADR)

Agreement on the International Carriage of Dangerous Goods by Inland Waters (ADN)  
国际内河运输危险货物协定 (ADN)



Recommendations on the Transport of Dangerous Goods-Manual of Tests and Criteria

联合国《关于危险货物运输的建议书 试验和标准手册》

International Air Transport Association (IATA)

《国际航空运输协会》(IATA)

Technical Instructions for the Safe Transport of Dangerous Goods

《危险货物安全运输技术指南》

Classification and code of dangerous goods

《危险货物分类和品名编号》

OSHA Hazard Communication Standard

《职业安全与健康标准》危险通信标准

## Section 16 – Other Information

### 第十六部分 其他信息

SDS creation date: 2025 Version: 2.0

Sample photo 样品照片:



#### Disclaimer 免责声明

This SDS is only compiled for battery and based on the information such as ingredients provided by the applicant and our current knowledge. This SDS shall be used only as a guide. If the battery is used as a component in another product, the information in this SDS may not be applicable. The users of this SDS must make independent judgments on the correctness and completeness and then decide its suitability according to the actual situation. The users should take the relevant legal responsibilities for the consequences of use.

本 SDS 报告仅针对电池。报告内容是根据申请单位提供的成分含量等信息和我司现有知识编写，仅作为指导使用。如果电池被用于其它产品中的组件，本 SDS 报告的信息可能不适用。本 SDS 的使用者必须对内容的正确性与完整性做出独立判断，根据实际情况决定其适用性，并对使用后果承担相关法律责任。

\*\*\*\*\*End of document 文件结束\*\*\*\*\*