



嘉普科技股份有限公司  
 太普動力新能源(常熟)股份有限公司  
 新加坡商兆普有限公司台灣分公司  
 Trend Energy Technology Co., Ltd.  
 Trend Power Technology(changshu) Inc  
 Trend Power Technology Private Limited Taiwan Branch

# SAFETY DATA SHEET

## 安全技術說明書

Document No. : SR-240104013  
 Issued/Revised date: 02 January 2024  
 Version: 1

### 1: Identification of the product and company 產品與廠商資訊

Product Name 產品名稱	Rechargeable Li-ion Battery Pack	
Product Description 產品描述	10S3P	
Model Name 型號名稱	SRM-001-58LG	
Manufacturer Part Number 製造商零件編號	B8GM2009F, B8GM2009FB, B8GM2010F, B8GM2010FB	
Rating Watt hour (WH) 電池電力(瓦時)	600	
<b>Details of the supplier product 產品供應商的詳細訊息 :</b>		
Company (Taiwan) 台灣總公司	Name 名稱	Trend Power Technology Private Limited Taiwan Branch 新加坡商兆普有限公司台灣分公司
	Address 地址	3 & 5F, No. 656, Sec. 2, Bade Rd., Hukou Township, Hsinchu County, 30348, Taiwan(R.O.C.) 台灣新竹縣湖口鄉八德路二段 656 號 3&5 樓
	Telephone 電話	886-3-5695916
	Fax 傳真	886-3-5696115
Manufacturer(Taiwan) 製造商(台灣)	Name 名稱	Trend Energy Technology Co., Ltd. 嘉普科技股份有限公司
	Address 地址	4F No. 656, Sec. 2, Bade Rd., Hukou Township, Hsinchu County, 30348, Taiwan(R.O.C.) 台灣新竹縣湖口鄉八德路二段 656 號 4 樓
	Telephone 電話	886-3-5695916
	Fax 傳真	886-3-5696115
Manufacturer(changshu) 製造商(常熟)	Name 名稱	Trend Power Technology(changshu) Inc. 太普動力新能源(常熟)股份有限公司



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	Address 地址	No.868, Dongnan Avenue, Changshu New & Hi-tech Industrial Development Zone, Changshu, 215500 Jiangsu, P.R. China 中國江蘇省常熟高新技術產業開發區東南大道 868 號, 215500
	Telephone 電話	86-0512-52122255
	Fax 傳真	86-0512-52302277
Emergency telephone number 緊急電話	886-3-5695916	

## 2: Hazards identification 危害識別

The battery is considered as an 「article」. The product is outside of the scope of GHS system.

And is not hazardous when used according to the recommendations of the manufacturer.

電池被視為「成品」。產品不在 GHS 體系涵蓋範圍內。根據製造商的建議使用時不會有危險。

Main Hazards 主要危害	When the battery is in extreme pressure deformation, high-temperature environment, overload, short-circuit condition, or disassemble the battery, an explosion of fire and chemical burn hazards may occur. 當電池處於擠壓變形、高溫環境、過載、短路狀態或拆卸電池時，可能會發生爆炸火災和化學灼傷危險。
Health Hazards 健康危害	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 與電池電解液接觸可能會刺激皮膚。眼睛和粘膜。火災會產生刺激性的腐蝕性和/或有毒氣體。煙霧可能導致頭暈或窒息。
Description of any hazards not otherwise classified 其他未分類危險性說明	Do not dismantle, open or shred the battery, the ingredients contained within could be harmful. 請勿拆卸、打開或撕碎電池，其中含有的成分可能有害
Ingredient with unknown acute toxicity 未知的急性毒性成份	No information available. 無資料

## 3: Composition/information on ingredients 成份組成資訊

Mixtures information: ingredients contained within the battery.

混合物資訊：電池中包含的成份



Chemical name 化學物質名稱	Typical concentration 成分比重%	CAS No. CAS號碼
Aluminum Foil 鋁箔	2-10%	7429-90-5
Nickel compound (proprietary) 鎳化合物 (專有)	0-90%	1313-99-1
Manganese compound (proprietary) 錳化合物 (專有)	0-15%	1313-13-9
Cobalt compound (proprietary) 鈷化合物 (專有)	0-15%	1307-96-6
Styrene-Butadiene-Rubber 丁苯橡膠	<1%	27288-99-9
Polyvinylidene Fluoride (PVDF) 聚偏氟乙烯(PVdF)	<5%	24937-79-9
Copper Foil 銅箔	2-10%	7440-50-8
Carbon (proprietary) 碳 (專有)	10-30%	7440-44-0
Electrolyte (proprietary) 電解質(專利)	10-20%	NA
Silicon Monoxide 一氧化矽	0-15%	10097-28-6
Steel, Nickel and inert materials 鋼、鎳和惰性材料	Remainder	NA

## 4: First aid measures 急救措施

### 4.1. Description of first aid measures 急救措施說明

Caution! No effect under routine handling and use. If exposure to internal materials within cell due to damaged outer metal casing, the following actions are recommended.

警告！ 在日常處理和使用下沒有影響。如果由於外部金屬外殼損壞而接觸到電池內部材料，建議採取以下措施。

Inhalation 吸入	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if you feel unwell. 將傷者轉移到空氣新鮮處，保持呼吸舒適的休息姿勢。 如果您感到不適，請就醫。
Skin contact 皮膚接觸	Immediately flush skin with copious amounts of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing and shoes before reuse. Get medical aid. 若接觸到電池內物質，脫去受污染的衣物和鞋襪，立即用清水沖洗 15 分鐘以上。若刺激持續請就醫。



Eye contact 眼睛接觸	Rinse cautiously with water for 15-20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. 若接觸到電池內物質，用水小心沖洗 15-20 分鐘。取下隱形眼鏡(如果有且易於操作)。若眼睛刺激持續請就醫
Ingestion 食入	Swallowing battery will be damaged to the respiratory tract and cause chemical burns to the stomach; in serious conditions it will cause Permanent damage. 食入會對呼吸道產生傷害、對腸胃產生燒傷，嚴重會造成永久性損害

**4.2. Most important symptoms and effects, both acute and delayed 主要症狀，急性和遲發性效應**

No effect under routine handling and use  
 在日常處理和使用下沒有影響

**4.3. Indication of any immediate medical attention and special treatment needed 醫療護理和特殊治療**

Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.  
 請醫護人員對相關物質進行認知並採取保護措施。

**5: Firefighting measures 滅火措施**

Suitable extinguishing Media 滅火方法和滅火劑	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. 使用適合當地環境和周圍環境的滅火措施
Unsuitable extinguishing Media 不合適的滅火方法和滅火劑	CAUTION: Use of water spray when fighting fire may be inefficient. 注意：滅火時使用噴水器可能效率降低。
Specific Hazards arising from the chemical 特殊危害	Product is or contains a sensitizer. May cause sensitization by skin contact. 產品或/含有一種導致敏感原，可能因皮膚接觸而引起過敏作用。
Hazardous Combustion Products 危險易燃產品	Carbon oxides. 碳氧化物。
Explosion Data 爆炸資料	Sensitivity to Mechanical Impact: No. 機械衝擊靈敏度：不敏感。 Sensitivity to Static Discharge: No. 靜電靈敏度：不敏感。
Protective Equipment and precautions for firefighters 消防員的防護設備及注意事項	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. 在任何火災中，佩戴自給式呼吸器壓力要求、MSHA/NIOSH (批准或同等) 和全套防護裝備。

**6: Accidental release measures 洩漏處理方法**

**6.1. Personal precautions, protective equipment and emergency procedures**

個人預防措施、防護設備和緊急程序





Restrict access to area until completion of clean up. Do not touch the spilled material. Wear adequate personal protective equipment as indicated in section 8.

限制進入該區域，直至清理完成。不要接觸溢出的材料。穿戴第 8 節所述的足夠的個人防護裝備。

## 6.2. Environmental precautions 環保注意事項

Avoid release to the environment, prevent entry into waterways, sewers, basements or confined areas. 避免釋放到環境中，防止進入水道、下水道、地下室或密閉區域。

## 6.3. Methods and material for containment and cleaning up 遏制和清理的方法和材料

On Land: Place material into suitable containers and call local fire/police department. Use absorbent material (Sand, earth or vermiculite) to absorb any exuded material. Seal leaking battery(unless hot) and contaminated absorbent material in plastic bag and dispose of as Special Waste in accordance with local regulations.

In Water: If possible, remove from water and call local fire/police department.

在陸地上：將材料放入合適的容器中並致電當地消防/警察部門。使用吸收材料（沙、泥土或蛭石）吸收任何滲出的物質。將洩漏的電池（除非很熱）和受污染的吸收材料密封在塑膠袋中，並根據地法規作為特殊廢物進行處理。

在水中：如果可能，將其從水中取出並致電當地消防/警察部門。

## 6.4. Reference to other sections 參考其他章節

See also Section:8,13 另請參照第 8、13 章節。

# 7: Handling and storage 處理和儲存

## 7.1. Precautions for safe handling 安全處理的注意事項

Do not expose the battery to excessive physical shock or vibration. Short-circuiting should be avoided. However, accidental short-circuiting for a few seconds will not seriously affect the battery. Prolonged short circuits will cause the battery to rapidly lose energy, could generate enough heat to burn skin. Sources of short circuits include jumbled batteries in bulk containers, coins, metal jewelry, metal covered tables, or metal belts used for assembly of batteries in devices. To minimize risk of short-circuiting, the protective case supplied with the battery should be used to cover the terminals when transporting or storing the battery. Do not disassemble or deform the battery. Should an individual cell within a battery become ruptured, do not allow contact with water.

不要讓電池受到過度的物理衝擊或振動。應避免短路。但是，幾秒鐘的意外短路不會對電池造成嚴重影響。長時間的短路會導致電池迅速失去能量，可能產生足夠的熱量來灼傷皮膚。短路的來源包括散裝容器中的雜亂電池、硬幣、金屬首飾、金屬覆蓋的桌子或用於在設備中組裝電池的金屬帶。為將短路風險降至最低，在運輸或存放電池時，應使用電池隨附的保護盒蓋住端子。請勿拆卸或變形電池。如果電池中的單顆電池發生破裂，請勿與水接觸。

## 7.2. Conditions for safe storage, including any incompatibilities 安全儲存條件，包括任何不相容性

The lithium ion battery should be between 25% and 75% of full charge when stored for a long period of time. Stored in below 60°C, dry, and well ventilated area. Elevated temperatures can result in loss of battery performance, leakage, or rust. Do not expose the battery to open flames. Store in accordance with local regulations.

鋰離子電池在長時間存放時應充滿電量的 25% 至 75%。存放在於 60°C 以下、乾燥、通風良好的地



方。溫度升高會導致電池性能下降、洩漏或生鏽。不要將電池暴露在明火中。依照當地法規儲存。

### 7.3. Specific end use(s) 特定最終用途

Not available. 無資料

## 8: Exposure controls/personal protection 接觸控制/個人防護

### 8.1. Control parameters 控制參數

Under normal conditions of battery use, internal components will not present a health or environmental hazard.

在電池正常使用條件下，內部組件不會對健康或環境造成危害。

### 8.2. Exposure controls 曝光控制

Appropriate Engineering Controls 適當的工程控制	Choose the suitable ventilation equipment; provide sufficient quantity of fire extinguishers, gas mask and water, equip with metal storage containers and bathing equipment. 選擇合理的通風設備，提供足夠數量的防毒面具滅火器及水源，配置存放電池的金屬容器和洗浴設備。
Respirator Protection 呼吸系統防護	Normally there is no need to do protection. Wear government approved respirator, if needed. 正常情況下無必要做防護，若需要，請配戴管理部門認可的面罩。
Eye/Face Protection 眼睛/面部防護	Normally there is no need to do protection. Wear chemical safety glasses, if needed. 正常情況下無必要做防護，若需要，請配戴安全防護眼鏡。
Skin Protection 皮膚防護	Hand protection: Wear nitrile butyl rubber, neoprene, or PVC gloves. Foot Protection: Steel toed shoes recommended for large container handling. Body protection: Wear appropriate protective clothing. 手部防護，請佩帶丁腈橡膠、氯丁橡膠或 PVC 手套。 足部防護，處理大量電池時建議穿著鋼頭鞋 身體防護：穿戴一般作業防護服。
Other Protection 其他防護	No smoking, drinking and eating at working site. Wash thoroughly after handling. 工作場所嚴禁吸菸、進食和飲水。工作後淋浴更衣。

## 9: Physical and chemical properties 物理和化學特性

### 9.1. Information on basic physical and chemical properties

#### 基本的物理和化學性質訊息

Physical Properties 物理特性	
Physical state 物理狀態	Solid 固體
Appearance 外觀	Black Plastics or Aluminium shell 黑色塑膠或鋁製外殼
Color 顏色	Black 黑色
Odor 氣味	Odorless 無味



Odor Threshold 嗅覺閾值	No information available 無資料	
<b>Chemical Properties 化學特性</b>		
Property 特性	Values 值	Remarks/ Method 備註
pH 酸鹼度	8~9	None known 未知
Melting / freezing point 熔點和冰點	No data available 無資料	None known 未知
Boiling point / boiling range 沸點/沸程	No data available 無資料	None known 未知
Flash Point 閃點	No data available 無資料	None known 未知
Evaporation Rate 蒸發率	No data available 無資料	None known 未知
Flammability (solid, gas) 易燃性 (固體、氣體)	No data available 無資料	None known 未知
Flammability Limit in Air 空氣中的易燃性限制 Upper/ Lower flammability 上下燃點限制	No data available 無資料	-
Vapor pressure 蒸氣壓力	No data available 無資料	None known 未知
Vapor density 蒸汽密度	No data available 無資料	None known 未知
Specific Gravity 比重	No data available 無資料	None known 未知
Water Solubility 水溶性	No data available 無資料	None known 未知
Solubility in other solvents 其他溶劑中的溶解度	No data available 無資料	None known 未知
Partition coefficient n-octanol/water: n-辛醇/水分配係數(對數值)	No data available 無資料	None known 未知
Autoignition temperature 自燃溫度	130°C	None known 未知
Decomposition temperature 分解溫度	No data available 無資料	None known 未知
Kinematic viscosity 運動黏度	No data available 無資料	None known 未知
Dynamic viscosity 動態黏度	No data available 無資料	None known 未知
Explosive properties 爆炸特性	No data available 無資料	None known 未知
Oxidizing Properties 氧化特性	No data available 無資料	None known 未知

## 9.2. Other information 其他資訊

Not available. 無資料

## 10: Stability and reactivity 穩定性與反應性

### 10.1. Reactivity 反應性

None during normal operating or handling conditions.



在正常操作或處理條件下,無不良反應。

**10.2. Chemical stability 化學穩定性**

Stable under recommended storage conditions.

在推薦的儲存條件下保持穩定。

**10.3. Possibility of hazardous reactions 發生危險反應的可能性**

None under normal processing

正常處理下, 無

**10.4. Conditions to avoid 應避免的情況**

None known based on information supplied.

根據提供的訊息, 未知

**10.5. Incompatible materials 不相容材料**

Strong acids. Strong oxidizing agents. Strong bases.

強酸。強氧化劑

**10.6. Hazardous decomposition products 危險分解產物**

Carbon oxides.

碳氧化物。

**11: Toxicological information 毒性學信息**

The battery pack does not have any hazardous substance in normal situation. If battery pack leak or rupture, the inside materials may be exposed, and release toxic substance or elicit toxicological properites.

正常情況下電池組不具有任何有害物質。如果電池洩漏或破裂，內部材料可能會暴露，並釋放有毒物質或引起毒理學特性。

**11.1 Information on the likely routes of exposure 可能接觸的途徑**

Product Information 產品資訊	Product does not present an acute toxicity hazard based on known or supplied information. In case of rupture 如有破裂，根據已知或提供的資訊，產品不存在急性毒性危害。
Inhalation 吸入	No effect under routine handling and use for sealed battery. If battery is broken, inhale fume/dust may cause irritation, chemical burns or lung edema. 密封電池在常規處理和使用下無影響。如果電池壞了，吸入煙霧/灰塵可能會引起刺激、化學灼傷或肺水腫。
Eye Contact 眼部接觸	Specific test data for the substance or mixture is not available. Expected to be an irritant based on components. Irritating to eyes. May cause redness, itching, and pain. May cause temporary eye irritation. 沒有關於該物質或混合物的具體測試資料。成分可能是刺激物，刺激眼睛，可能會引起發紅、搔癢和疼痛可能會引起暫時性的眼睛刺激。
Skin Contact 皮膚接觸	Specific test data for the substance or mixture is not available. Expected to be an irritant based on components. Irritating to skin. Prolonged contact may cause redness and irritation. 沒有關於該物質或混合物的具體測試資料。成分可能是刺激物，長時



	間的接觸皮膚可能會引起發紅和刺激
Ingestion 食入	<p>Specific test data for the substance or mixture is not available. Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.</p> <p>沒有關於該物質或混合物的具體測試資料。食入可能會刺激粘膜，也可能引起胃腸道刺激、噁心、嘔吐和腹瀉。</p>

### 11.2. Information on toxicological characteristics 毒理學特徵信息

Acute Toxicity 急性毒性	No information available. 無資料
Skin corrosion/irritation 皮膚腐蝕/刺激	No information available. 無資料
Serious eye damage/irritation: 嚴重的眼睛損傷/刺激	No information available. 無資料
Respiratory sensitization 呼吸過敏	No information available. 無資料
skin sensitization 皮膚過敏	No information available. 無資料
Carcinogenicity 致癌性	No information available. 無資料
Germ Cell Mutagenicity 生殖細胞致突變性:	No information available. 無資料
Reproductive Toxicity 生殖毒性	No information available. 無資料
STOT-Single Exposure 特定目標器官毒性-單次接觸	No information available. 無資料
STOT-Repeated Exposure 特定目標器官毒性-重覆接觸	No information available. 無資料
Aspiration Hazard 吸入危害	No information available. 無資料

## 12: Ecological information 生態學信息

### 12.1. Toxicity 毒性

Under normal conditions of battery use, intimal components will not present a health or environmental hazard.

電池正常使用條件下，內部組件不會對健康或環境造成危害。

### 12.2. Persistence and degradability 持久性和降解性

No information available. 無資料

### 12.3. Bioaccumulative potential 潛在的生物累積性

No information available. 無資料

### 12.4. Mobility in soil 土壤中的流動性



No information available. 無資料

**12.5. Results of PBT and vPvB assessment PBT 和 vPvB 評估結果**

No information available. 無資料

**12.6. Endocrine disrupting properties 內分泌幹擾特性**

No information available. 無資料

**12.7. Other adverse effects 其他不良反應**

No information available. 無資料

**13: Disposal considerations 廢棄處置**

**13.1. Waste treatment methods 廢棄物處理方法**

Disposal methods: This material, as supplied, is not a hazardous waste according to Federal regulations (40CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.  
 根據聯辦法規(40CFR 261)，材料不是危險廢物，如果與危險廢物混合或以其他方式接觸，經過添加化學品，或加工改變，該材料可能成為危險廢物，請參考 40 CFR 261，以確定已改變的材料是否為危險廢物。有關其他要求，請諮詢適當的州、地區或地方法規。

**14: Transport information 運輸信息**

**14.1. UN number or ID number 聯合國編號或身分證號碼**

UN3480

**14.2. UN proper shipping name 聯合國正確運輸名稱**

Lithium ion batteries

**14.3. Transport hazard class(es) 運輸危險類別**

9

**14.4. Packing group 包裝組別**

II

**14.5. Environmental hazards 環境危害**

No information available. 無資料

**14.6. Special precautions for user 使用者特別注意事項**

No information available. 無資料

**14.7. Maritime transport in bulk according to IMO instruments 根據 IMO 文書進行散裝海運**

No information available. 無資料

**14.8. Transport 運輸**

IATA DGR	The International Civil Aviation Organization (ICAO) Technical Instructions (2023-2024 Edition) 國際民航組織 (ICAO) 技術指南 (2023-2024 年版)
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	<p>The International Air Transport Association (IATA ) Dangerous Goods Regulations(65th Edition, 2024), Packing Instruction 965, Section IA.          國際航空運輸協會（IATA）危險品條例（第 65 版，2024 年），符合包裝說明 PI965 第 IA 章節之要求。</p> <p>Lithium ion batteries only transport by air in accordance with PI965 at a state of charge(SOC) not to exceed 30 percent of rated design capacity.          鋰離子電池只能在充電狀態（SOC）下按照 PI965 空運規定，不得超過 30% 額定設計容量。</p>
IMO IMDG CODE	<p>The International Maritime Dangerous Goods(IMDG) Code 2022 Edition(Amendment 41-22) [Special provision 230]          國際海運危險貨物（IMDG），國際海事危險品章程 2022 年版(修正案 41-22)規則[特別條款 230]</p>

#### 14.9. Other UN number and shipping name 其它聯合國編號與運輸名稱

UN3481	Lithium ion batteries packed with equipment
UN3481	Lithium ion batteries contained in equipment
UN3171	Battery-powered vehicle

### 15: Regulatory information 法規信息

Dangerous Goods Regulations 《危險品規則》

IMO International Maritime Dangerous Goods Code relevant regulations 《國際海運危險貨物規則》

Refer to U. N., national, local regulations. 參照聯合國，國家，地方性法規。

### 16: Other information 其他信息

#### 16.1. Preparation and revision information 編制和修訂信息

The information contained in this Safety data sheet is based on the present state of knowledge and current legislation.

This safety data sheet provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications  
 The information contained in this Safety data sheet is based on the present state of knowledge and current legislation.

本安全資料表中包含的資訊是基於當前的知識狀況和現行法規。

本安全資料表提供有關產品健康、安全和環境方面的指導，不應解釋為對特定應用的技術性能或適用性的任何保證。本安全資料表中包含的資訊基於當前的知識狀況和當前立法。

#### 16.2. Abbreviations and acronyms 縮略語和首字母縮寫

CAS	Chemical Abstracts Service 美國化學文摘社
OSHA:	The United States Occupational Safety and Health Administration. 美國職業安全與健康管理局



嘉普科技股份有限公司  
太普動力新能源(常熟)股份有限公司  
新加坡商兆普有限公司台灣分公司  
Trend Energy Technology Co., Ltd.  
Trend Power Technology(changshu) Inc  
Trend Power Technology Private Limited Taiwan Branch

GHS	Globally Harmonized System of Classification and Labelling of Chemicals 全球化學品統一分類和標籤制度
IMO IMDC CODE	International Maritime Organization, International Maritime Dangerous Goods Code 國際海事組織,國際海運危險或貨物規則
ICAO	International Civil Aviation Organization 國際民用航空組織
IATA	International Air Transport Association 國際航空運輸協會
PI	Packaging Instruction 包裝說明

### 16.3. Disclaimer 免責聲明

The information in this SDS is provided all the relevant data fully and truly. However, the information is provided without any warranty on their absolute extensiveness and accuracy. This SDS was prepared to provide safety preventive measures for the users who have got professional training. The personal user who obtained this SDS should make independent judgment for the applicability of this SDS under special conditions. In these special cases, we do not assume responsibility for the damage.

本 SDS 中的信息完整、真實地提供了所有相關數據。但是，提供的信息不保證其絕對的廣泛性和準確性。本 SDS 旨在為受過專業培訓的用戶提供安全預防措施。獲取本 SDS 的個人用戶應對本 SDS 在特殊情況下的適用性做出獨立判斷。在這些特殊情況下，我們不對損壞承擔責任。

----- End of the SDS -----