

# Material Safety Data Sheet

For

HuiZhou pecron technology co., LTD

Gaowu section,Dongfeng Village ,Xinwei Town,Huiyang District,Huizhou City

portable power station

Model/type reference ..... : E2000 LFP

Physical State and Appearance ..... : Solid


Typical Capacity ..... : 25.6V / 75Ah

Rated power..... : 1920WH

Weight..... : 22Kg

Shape and Physical Dimension

(mm) ..... : L409\*W256\*H297mm

Brand ..... : 

Version number ..... : V1.0

Revision date ..... : N/A.

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Laboratory ..... : Shenzhen ITC Product Testing Co., Ltd.

Address ..... : Room 204, No.10, Phase 1, Xinhe Xinxing Third Industrial Area, Fuhai Road, Fuyong Street, Bao'an District, Shenzhen, Guangdong, China

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Compiled by (name+ signature) ..: Amanda Chen

Approved by (+ signature) .....: Ben wu

Preparation Date.....: Apr. 26, 2022

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**物質安全資料表(MSDS)****產品名稱(Item Name): 戶外移动电源/portable power station****一、物品與廠商資料(IDENTIFICATION OF THE SUBSTANCE AND COMPANY INFORMATION) :**

物品名稱	: 戶外移动电源
Item Name	: portable power station
物品編號	: E2000 LFP
Item number	: E2000 LFP
系列型号	: N/A
Derivative model No.:	N/A
產品組成類別	: 鋰離子
Product Components:	Li-ion
製造商或供應商名稱	: 惠州市米阳新能源有限公司
Company Name	: HuiZhou pecron technology co.,LTD
聯絡電話 TEL:	0755-28601668 傳真電話 FAX: 0755-28601668
	<b>Tel : 0755-28601668 &amp; Fax : 0755-28601668</b>

**二、危害辨識資料(HAZARDS IDENTIFICATION) :**

物質狀態及外觀 Physical State and Appearance :
固体 Solid
緊急情況概要 Emergency Overview :
對眼睛、皮膚及呼吸系統不產生病變。 To the eyes, skin and respiratory system does not produce lesions.
潛入人體的途徑 Routes of Entry :
吸入,皮膚接觸,眼睛接觸,食入 Inhalation, Eye Contact, Skin Contact Ingestion
潛在的慢性健康影響 Potential Chronic Health Effects : ND
暴露過度所造成的重大醫學疾病 Medical Conditions Aggravated by overexposure : ND
暴露過度/症候/徵狀 overexposure/Signs/Symptoms :
過度接觸下导致轻微的刺激,建议合适的防护装备 Causes mild irritation, suitable protective gear is recommended. Avoid UV light and sunlight to prevent self-polymerization.

**三、成份辨識資料(COMPOSITION)**

化学名称 Hazardous Ingredients	化學文摘社登記號碼 CAS#	重量百分比 WT.%
Cobalt lithium manganese nickel oxide	182442-95-1	35%
Acetylene carbon black	1333-86-4	5%
Aquaplast	9004-32-4	2%
Vinylidene fluoride polymer	24937-79-9	2%
Graphite	7782-42-5	25%
Lithium Hexafluorophosphate	21324-40-3	5%
Ethyl Methyl Carbonate	96-49-1	5%
Dimethyl carbonate	616-38-6	8%
Copper	7440-50-8	15%
Aluminuml	7429-90-5	10%

#### 四、急救措施 FIRST AID MEASURES

不同暴露途徑之急救方法：

◆吸入 Inhalation：

粉尘会造成轻微刺激感，但不致严重影响身体健康。

Dust can cause mild stimulation, but not seriously affect the physical health.

皮膚接觸 Skin Contact：

被熔融之塑料碰触皮肤，立即大量清水冷却，不要企图揭发皮肤上附着物，應尋求醫療協助。

Immediately by molten plastic to touch the skin, plenty of water cooling, don't attempt to expose skin adhesion, should seek medical assistance.

眼睛接觸 Eye Contact：

粉尘会造成微刺激感，熔融之熏烟会刺激眼睛且不舒服。

Dust can cause slight stimulation, molten smoke may irritate eyes and uncomfortable.

食入 Ingestion：

无。

ND

對醫師之提示 Notes to Physician：

#### 五、滅火措施 FIRE FIGHTING MEASURES

產品的自燃性 Flammability of the product：

No flammable

自燃溫度 Auto-Ignition Temperature：

No data as product

閃火點 Flash point：

No data as product

產品的燃燒 Products of Combustion

呈現於各種物質下火災危害 Fire Hazards in Presence of Various Substances

在高熱下該產品可能會發生自身聚合反應，並放出有毒之煙。

When Heated to self-reaction it emits acrid smoke and irritating fumes

呈現於各種物質下爆炸危害 Explosion Hazards in Presence of Various Substances

火警的媒介與指示 Extinguishing media & instruction:

化學乾粉、CO<sub>2</sub>、泡沫、砂及灑水器。切勿直接以水柱滅火。

Dry Chemical powder, CO<sub>2</sub>, foam, sand, Water spray should be used. Never used direct water jet.

滅火人員應著全套之防護裝備並配戴自給式呼吸防護具，以避免皮膚與眼睛接觸危害物，並在安全離下進行滅火。

Firemen have to wear full protective clothing with self-contained breathing apparatus to prevent contact with skin and eyes.

Evacuate area and fight fire from a safe distance.

Hazardous polymerization may occur under fire condition, and toxic fumes may be released.

防火衣 protective clothes (Fire)

火災危害的特殊註解 Special Remark on Fire Hazards

爆炸危害的特殊註解 Special Remark on Explosion Hazards

## 六、洩漏處理方法 ACCIDENTAL RELEASE MEASURES

個人應注意事項 Personal precautions: : 无

: ND

個人防護 Personal protection:

穿著防酸鹼手套及全身PVC抗化學防護衣帽鞋，穿戴全罩式防毒面具，濾毒罐使用有機濾毒罐。

Wear neoprene gloves, PVC chemical resistant suit with integral hood and knee length rubber safety boots. Wear full-face piece respirator with organic vapor canister. In a confined space, wear self-contained breathing apparatus.

環境注意事項 Environmental precautions: : 无

: ND

清理方法 Clean up method: : 將外泄物產入干燥、干净之容器內，加蓋并表示。

Will leak within the containers of products into a dry, clean, covered and said.

## 七、操作與儲存方法 HANDLING AND STORAGE

操作 Handling: :

1. 避免有任何裸火產生並除去所有發火源並遠離熱及不相容物質。
2. 應於通風良好的地方處置使用。

Extinguish any naked flames. Remove ignition sources. Avoid contact with skin, eyes, and clothing. Take precautionary measures against static discharges. Earth all equipment. Do not breathe vapor or mists. Use in well-ventilated areas only. Used local exhaust extraction. Do not empty into drains.

儲存 Storage: :

1. 貯存之容器或容器之內層應使用惰性或是不鏽鋼、聚丙烯之材質
2. 應貯存在陰涼、乾燥及通風良好之地方，避免陽光或紫外光直接照射。
3. 遠離熱源、發火源及不相容物質，以防止自身聚合反應。

For containers or container linings use mild or stainless steel or polypropylene. Certain plastics, galvanized iron and copper may discolor the product. Store in a cool, dry, well-ventilated area, away from incompatible materials. Keep away from direct sunlight and other sources of heat or ignition.

### 八、暴露預防措施 EXPOSURE CONTROLS / PERSONAL PROTECTION

工程控制 Exposure Limit :

未建立

None established.

個人防護設備 PERSONAL PROTECTION :

◆呼吸防護：若通風下不需額外的器具輔助，否則須配戴全罩式呼吸器，以阻絕有機氣體。

◆手部防護：防化學物質橡膠手套，如：尼奧普林（合成橡膠）材質。

◆眼睛防護：有粉尘时，請配戴有側邊防護之安全眼鏡。

◆足部防護：及膝橡膠材質安全鞋。

◆皮膚及身體防護：請著 PVC 材質並有帽子的防護用工作服。

附註：卫生措施不需要。

### 九、物理及化學性質 PHYSICAL AND CHEMICAL PROPERTIES

物質狀態與外觀 Appearance : 固體 Solid	形狀 State : 方形黑色固体 Square black solid
顏色 color : 黑色 Black	氣味 odor : 味輕 mild
pH 值 : ND	沸點/沸點範圍 boiling point : >200°C
分解溫度 critical temp : ND	閃火點 flash point : 產品無確切資料顯示。 (單指丙烯酸酯单体組成>350°C) ND(for acrylate monomer>350°C)
酸價 acid value:45±3	爆炸界限 : ND
環氧當量 EEW: >25000	蒸氣密度 vapor density : ND
粘度 viscosity: 60000±15000 cps(mPa · s)	溶解度 solubility : 不溶於水

### 十、安定性及反應性 STABILITY AND REACTIVITY

安定性 Stability :

常溫下安定

Stable under normal handling conditions.

應避免狀況 Conditions to Avoid:

應避免之狀況：不可高於 200°C、不可直射陽光、不可接觸熱源、不可摩擦至產生高熱。

應避免之物質：避免加入可產生自由基之物質、避免加入過氧化物及金屬離子。

危害分解物：加熱時會產生危害性聚合放熱、直射陽光時會產生危害性聚合放熱。

Direct sunlight, any other sources of heat or radiation, flames and sparks. Contact with acids or bases.

**十一、毒性資料 TOXICOLOGICAL INFORMATION**

對動物的毒物試驗 LD50 LC50 : ND
局部效應 : ND
致敏感性 : ND
慢毒性或長期毒性 toxic and chronic effect on humans : ND
特殊效應 Special remarks : ND

**十二、生態資料 ECOLOGICAL INFORMATION**

可能之環境影響/環境流佈 : 未知。Unknown
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**十三、廢棄處置方法 DISPOSAL CONSIDERATIONS**

<p>廢棄處置方法：若可自行清洗，儘可能回收使用。可由授權之機構負責焚化及廢水處理。本產品不需歸類為“特殊廢棄物”。</p> <p><u>Precautions:</u> Refer to section 7 before handling the product or container.</p> <p><u>Disposal Methods:</u> Recycle or rework if feasible. Incinerate at authorized facility. Landfill in a facility authorized to receive waste. Normally this product need not be considered as a “special waste“. However, the relevant authority should be contacted to confirm this statement.</p>
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**十四、運送資料 TRANSPORT INFORMATION**

<p>國際運送規定： 未登錄 Not listed</p>
<p>聯合國編號 UN-No： 未登錄 Not listed</p>
<p>運送規定：</p> <p>This report applies to by sea, by air and by land;</p> <p>The Polymer BY PAINT (model: BY200-010R) tested according to the requirements of the UN manual of tests and Criteria, Part III, subsection 38.3;</p> <p>The Polymer BY PAINT was protected so as to prevent short circuits. This includes protection against contact with conductive materials within the same packaging that could lead to short circuit;</p> <p>The Polymer BY PAINT according to Section II/Section IB of PACKING INSTRUCTION 965, or Section II of PACKING INSTRUCTION 966~967 of the 2022 IATA Dangerous Goods regulations 63 th Edition may be transported. and applicable U.S. DOT regulations for the safe transport of BY PAINT.</p> <p>More information concerning shipping, testing, marking and packaging can be obtained from label master at <a href="http://www.labelmaster.com/">http://www.labelmaster.com/</a>.</p> <p>The packaging shall be adequate to avoid mechanical damage during transport, handling and stacking.</p> <p>The materials and pack design shall be chosen so as to prevent the development of unintentional electrical</p>

conduction, corrosion of the terminals and ingress of moisture.

The package must be handled with care and that a flammability hazard exists if the package is damaged;

Each package must be labeled with a BY PAINt handling label or in addition to the Class 9 hazard label.

With regard to transport, the following regulations are cited and considered:

- The International Civil Aviation Organization (ICAO) Technical Instructions.
- The International Air transport Association (IATA) Dangerous Goods Regulations.

UN number of BY PAINt: UN3480 or UN3481;

UN Proper shipping name/Description (technical name): Lithium ion batteries or Lithium ion batteries contained in equipment or Lithium ion batteries packed with equipment;

UN Classification (Transport hazard class): Non dangerous;

Marine pollutant(Y/N): N;

- The International Maritime Dangerous Goods (IMDG) Code.

For Polymer BY PAINt by sea, provided that packaging is strong and prevent the products from short-circuit.

UN number of BY PAINt: UN3480 or UN3481;

UN Proper shipping name/Description (technical name): Lithium ion batteries or Lithium ion batteries contained in equipment or Lithium ion batteries packed with equipment;

UN Classification (Transport hazard class): Non dangerous;

Marine pollutant(Y/N): Y;

Special Provision: International maritime dangerous goods code (IMDG) 188, 230, 310, 348, 957;

- The US Hazardous Materials Regulation (HMR) pursuant to a final rule issued by RSPA
- The Office of Hazardous Materials Safety within the US Department of Transportations; (DOT)

Research and Special Programs Administration (RSPA)

特殊運送方法及注意事項：

未登錄

Not listed

## 十五、法規資料 REGULATORY INFORMATION

適用法規 regulator:

勞工安全衛生設施規則

勞工作業環境空氣中有害物容許濃度標準

危險物及有害物通識規則

道路交通安全規則

事業廢棄物儲存清除處理方法及設施標準

公共危險物品及可燃性高壓氣體設置暨安全管理辦法

### R- 警示:

對呼吸系統、皮膚及眼睛有刺激性(R36/37/38)

皮膚接觸可能導致敏感性(R43)

### S- 警示:

眼睛接觸時應迅速以大量清水沖洗，並尋求醫療協助(S26)

不可吸入蒸氣、霧氣(S23)





在通風不良的情況下，應配戴合適的呼吸裝備(S38)

應著防護衣、手套及眼/面防具(S36/37/38)

R-phrase:

Irritating to eyes, respiratory system and skin.(R36/37/38)

May cause sensitization by skin contact.(R43)

S-phrase:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.(S26)

Do not breathe vapor/mist.(S23)

In case of insufficient ventilation, wear suitable respiratory equipment.(S38)

Wear suitable protective clothing, gloves and eye/face protection.(S36/37/38)

EINECS: Conforming TSCA: Conforming

## 十六、其他資料 OTHER INFORMATION

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The data/information contained herein has been reviewed and approved for general release on the basis that this document contains no export controlled information.

\*\*\*\*\* End of MSDS \*\*\*\*\*