

# MSDS Report

## MSDS 报告

|                                     |                                                                                                                                                                                                                        |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applicant's name</b><br>委托方名称    | Shenzhen Uniwins Technology Co., Ltd.<br>深圳市友立联科技有限公司                                                                                                                                                                  |
| <b>Applicant's Address</b><br>委托方地址 | Room 1011, Building 7.8.9 (Minde Building), Chaoyang New Village,<br>Minqiang Community, Minzhi Street, Longhua District, Shenzhen<br>深圳市龙华区民治街道民强社区朝阳新村临街 7.8.9 栋（民德大厦）1011 房                                         |
| <b>Name of Sample</b><br>样品名称       | Gridley RCS recycled plastic 20000 65W portable laptop powerbank<br>移动电源                                                                                                                                               |
| <b>Model 型号</b>                     | P322.80                                                                                                                                                                                                                |
| <b>Nominal Voltage</b><br>标称电压      | 3.7V                                                                                                                                                                                                                   |
| <b>Rated Capacity</b><br>额定容量       | 20000mAh, 74Wh                                                                                                                                                                                                         |
| <b>Weight 重量</b>                    | 418g                                                                                                                                                                                                                   |
| <b>Size 尺寸 (L×W×T)</b>              | 151.0mm*69.0mm*30.0mm                                                                                                                                                                                                  |
| <b>Prepared By</b><br>编制单位          | Shenzhen Huaxia Testing Technology Co., Ltd.<br>深圳市华夏准测检测技术有限公司<br>1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang<br>Street, Longhua District, Shenzhen, China<br>深圳市龙华区大浪街道华辉路同胜科技大厦 A 座一楼华夏检测实验室 |
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## Material Safety Data Sheet 化学品安全技术说明书

### Section 1- Chemical Product & Company Identification

#### 第一部分 化学品及企业标识

|                                        |                                                                                                    |
|----------------------------------------|----------------------------------------------------------------------------------------------------|
| <b>Name of Sample</b><br>样品名称          | Gridley RCS recycled plastic 20000 65W portable laptop powerbank<br>移动电源                           |
| <b>Manufacturer's name</b><br>制造商名称    | Dongguan Uniwins Technology Co., Ltd.<br>东莞市诺云科技有限公司                                               |
| <b>Manufacturer's Address</b><br>制造商地址 | RM402, 4/F, No.388, Yangxin Road, Dalang Town, Dongguan, Guangdong<br>东莞市大朗镇杨涌村杨新路 388 号 4 栋 402 室 |
| <b>Contact Person</b><br>联系人           | /                                                                                                  |
| <b>Tel</b><br>电话                       | 13723703212                                                                                        |
| <b>Emergency Tel</b><br>应急电话           | 13723703212                                                                                        |
| <b>E-mail</b><br>邮箱                    | sandy@uniwins.com                                                                                  |

### Section 2- Hazards Identification

#### 第二部分 危险性概述

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Classification of Danger</b><br>危险性类别    | See section 14.<br>见第十四部分。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Primary Route(s) of Exposure</b><br>侵入途径 | Eye, skin contact, ingestion.<br>眼睛，皮肤接触，摄入。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Health Hazard</b><br>健康危害                | <p>The batteries are not hazardous when used according to the instructions of manufacturer under normal conditions. In case of abuse, there's Hazard of rupture, fire, heat, leakage of internal components, which could cause casualty loss. Abuses including but not limited to the following cases: charged for long time, short circuited, put into fire, whacked with hard object, punctured with acute object, crushed, and broken.</p> <p>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、内部成分泄漏的危险，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。</p> |

### Section 3- Composition/Information on Ingredients

### 第三部分 成分/组成信息

| Chemical Name<br>化学名称                           | Concentration or<br>concentration ranges (%)<br>浓度或浓度范围(%) | CAS Number<br>CAS 号(化学文摘索引登记号) |
|-------------------------------------------------|------------------------------------------------------------|--------------------------------|
| 镍钴锰酸锂<br>Lithium Manganese Nickel And<br>Cobalt | 45.4                                                       | 182442-95-1                    |
| 聚偏氟乙烯<br>Polyvinylidene Fluoride (PVDF)         | 0.67                                                       | 24937-79-9                     |
| 碳纳米管<br>CNTS                                    | 5.0                                                        | 16291-96-6                     |
| 铝<br>Aluminium                                  | 3.33                                                       | 7429-90-5                      |
| 石墨<br>Graphite                                  | 16.48                                                      | 7429-90-5                      |
| 导电炭黑<br>SUPER-P                                 | 0.22                                                       | 1333-86-4                      |
| 丁苯橡胶<br>Styrene-Butadiene Rubber(SBR)           | 0.39                                                       | 9003-55-8                      |
| 羧甲基纤维素<br>Carboxymethyl Cellulose               | 0.31                                                       | 9000-11-7                      |
| 铜<br>Copper                                     | 6.74                                                       | 7440-50-8                      |
| 镍<br>Nickel                                     | 1.08                                                       | 7440-02-0                      |
| 六氟磷酸锂<br>Lithium Hexafluorophosphate            | 14.56                                                      | 21324-40-3                     |
| 铝极耳<br>Aluminium                                | 0.11                                                       | 7429-90-5                      |
| 镍极耳<br>Nickel                                   | 0.35                                                       | 7440-02-0                      |
| 聚乙烯<br>Polyethylene                             | 3.03                                                       | 9002-88-4                      |
| 尼龙<br>Nylon                                     | 0.8                                                        | 24937-16-4                     |
| 聚丙烯<br>Polypropylene                            | 1.3                                                        | 9003-07-0                      |

|    |      |     |
|----|------|-----|
| 其他 | 0.23 | N/A |
|----|------|-----|

Labeling according to EC directives.

标签根据 EC 指令。

No symbol and Hazard phrase are required.

不需要象形符号和危险短语。

Note: CAS number is Chemical Abstract Service Registry Number.

注意: CAS 号是化学文摘服务注册号码。

N/A=Not apply.

N / A =不适用。

## Section 4- First Aid Measures

### 第四部分 急救措施

|                         |                                                                                                                                                                                  |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye</b><br>眼睛        | Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.<br>万一接触，立即用大量的清水冲洗至少 15 分钟，翻起上下眼睑，直到化学的残留物消失为止，迅速就医。 |
| <b>Skin</b><br>皮肤       | Remove contaminated clothes and rinse skin with plenty of water or shower for 15 minutes. Get medical aid.<br>万一接触，用大量水冲洗至少 15 分钟，同时除去污染的衣物和鞋子，迅速就医。                             |
| <b>Inhalation</b><br>吸入 | Remove from exposure and move to fresh air immediately. Use oxygen if available.<br>立即从暴露处移至空气清新处，如果呼吸困难给予输氧，立即就医。                                                               |
| <b>Ingestion</b><br>食入  | Ingesting damaged batteries, do not induce vomiting or give food or drink. Seek medical attention immediately.<br>食入损坏的电池，不要催吐且不要再吃下食物或喝饮料，立刻就医。                                 |

## Section 5- Fire Fighting Measures

### 第五部分 消防措施

|                                                                       |                                                                                                                                                                                   |
|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Characteristics of Hazard</b><br>危险特性                              | Dusts at sufficient concentrations can form explosive mixtures with air. Combustion generates toxic fumes.<br>高密度粉尘遇空气会形成爆炸性混合物。燃烧生成有毒烟雾。                                         |
| <b>Hazardous Combustion Products</b><br>燃烧产生的危险物品                     | Carbon dioxide.<br>二氧化碳。                                                                                                                                                          |
| <b>Fire-extinguishing Methods and Extinguishing Media</b><br>灭火方法及灭火剂 | For small fires, use water spray, dry chemical, carbon dioxide or chemical foam.<br>对于小型火险，可使用水枪，干冰（也就是液态二氧化碳）或化学泡沫。                                                              |
| <b>Attention in Fire-extinguishing</b><br>灭火注意事项                      | Wear self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.<br>因为压强关系，要穿戴可呼吸式全身防护装备，MSHA/NIOSH（经认证或等效的），以及佩戴全套防护装置。 |

## Section 6- Accidental Release Measures

### 第六部分 泄露应急处理

|                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><i>Personal Precautions, protective equipment, and emergency procedures</i></p> <p>个人预防措施、防护装备和应急程序</p> | <p>In case of rupture. Attention! Corrosive material. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Refer to protective measures listed in Sections 7 and 8.</p> <p>万一破裂。注意！腐蚀性物质。避免接触皮肤，眼睛或衣服。确保空气流通。根据需要使用个人防护装备。将人员撤离到安全区域。让人们远离溢出/泄漏处和处于逆风。参考第七部分和第八部分中列出的防护措施。</p>           |
| <p><i>Environmental Precautions</i></p> <p>环境保护措施</p>                                                      | <p>Prevent product from contaminating soil and from entering sewers or waterways.</p> <p>防止产品污染土壤和进入下水道或水道。</p>                                                                                                                                                                                                                                                                                                                               |
| <p><i>Methods and materials for Containment</i></p> <p>方法和材料控制</p>                                         | <p>Stop the leak if safe to do so. Contain the spilled liquid with dry sand or earth. Clean up spills immediately.</p> <p>出于安全，阻止泄漏，可以用干砂或泥土来遏制液体溢出，立即清理溢出物。</p>                                                                                                                                                                                                                                                                              |
| <p><i>Methods and materials for cleaning up</i></p> <p>清理的方法和材料</p>                                        | <p>Absorb spilled material with an inert absorbent (dry sand or earth). Scoop contaminated absorbent into an acceptable waste container. Collect all contaminated absorbent and dispose of according to directions in Section 13. Scrub the area with detergent and water; collect all contaminated wash water for proper disposal.</p> <p>用惰性吸收剂（干砂或泥土）吸收溢出的材料。污染物转移到可接受的废物容器中。收集所有受污染的吸收剂，按照第十三部分的说明进行处理。用洗涤剂和水清洁污染区域，收集所有受污染的洗涤水，妥善处理。</p> |

## Section 7- Handling and Storage

### 第七部分 操作处置与储存

|                                  |                                                                                                                                                                                                                               |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><i>Handling</i></p> <p>操作</p> | <p>The battery may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity.</p> <p>拆解、挤压、直接放入火中或高温条件下，电池可能发生爆炸和燃烧。禁止短路或将电池正负极错误的安装在设备中。</p> |
| <p><i>Storage</i></p> <p>储存</p>  | <p>Store in a cool, dry, well-ventilated area away from incompatible substances. Store locked up. Keep out of the reach of children.</p> <p>储藏于阴凉，干燥，通风处，远离接触会发生反应的材料。存储锁定。放在儿童无法接触的地方。</p>                                   |

|                                        |                                                                                                                                                                                                                                       |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Other Precautions</b><br>其他要注意的防范措施 | <p>In case of rupture. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Use personal protection equipment.</p> <p>万一破裂。按照良好的工业卫生和安全规范进行操作。避免接触皮肤，眼睛或衣服。使用个人防护设备。</p> |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Section 8 - Exposure Controls/Personal Protection

### 第八部分 接触控制和个体防护

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Engineering Controls</b><br>工程控制            | <p>Use adequate ventilation to keep airborne concentrations low. If used under conditions that generate particulates, the ACGIH TLV-TWA of 3mg/m<sup>3</sup> respirable fraction (10mg/m<sup>3</sup> total) should be observed.</p> <p>保证空气流通使空气密度保持在低水平。如果在会生成微粒的情况下使用，应仔细观察 3mg/m<sup>3</sup> ACGIH TLV-TWA 3 的吸入量（总量为 10mg/m<sup>3</sup>）。</p>                                                                                                                                                                                                                                                                                                                                    |
| <b>Personal Protective Equipment</b><br>个人防护设备 | <p><b>Eye and Face Protection:</b> None required for consumer use. If there is a Hazard of contact: Tight sealing safety goggles. Face protection shield.</p> <p>眼睛和脸部保护：消费者无需使用。如果有接触危险：密封安全护目镜。面部防护罩。</p> <p><b>Skin and Body Protection:</b> None required for consumer use. If there is a Hazard of contact: Wear protective gloves and protective clothing.</p> <p>皮肤和身体防护：消费者无需使用。如果有接触危险：穿戴防护手套和防护服。</p> <p><b>Respiratory Protection:</b> No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.</p> <p>呼吸系统防护：正常使用条件下不需要防护设备。如果超过暴露限值或发生刺激，可能需要通风和疏散。</p> |

## Section 9- Physical and Chemical Properties

### 第九部分 理化特性

|                                       |                                                                       |
|---------------------------------------|-----------------------------------------------------------------------|
| <b>Physical State</b><br>物理状态         | <b>Appearance:</b> Approximate Cuboid<br>外形：近长方体                      |
|                                       | <b>Color:</b> Black<br>颜色：黑色                                          |
|                                       | <b>Odour:</b> If leaking, smells of medical ether.<br>气味：泄漏时，医用乙醚的气味。 |
| <b>Change in condition:</b><br>变化的条件： |                                                                       |
| <b>pH</b><br>酸碱度                      | Not applicable as supplied.<br>不适用。                                   |

|                                |                                                                          |
|--------------------------------|--------------------------------------------------------------------------|
| Flash Point<br>闪点              | Not applicable unless individual components exposed.<br>除非单个的组件暴露，否则不适用。 |
| Flammability<br>易燃度            | Not applicable unless individual components exposed.<br>除非单个的组件暴露，否则不适用。 |
| Relative density:<br>相对密度      | Not applicable unless individual components exposed.<br>除非单个的组件暴露，否则不适用。 |
| Solubility (water)<br>溶解性（水溶性） | Not applicable unless individual components exposed.<br>除非单个的组件暴露，否则不适用。 |
| Solubility (other)<br>溶解性（其他）  | Not applicable unless individual components exposed.<br>除非单个的组件暴露，否则不适用。 |

## Section 10 – Stability and Reactivity

### 第十部分 稳定性和反应性

|                                                       |                                                                      |
|-------------------------------------------------------|----------------------------------------------------------------------|
| <b>Chemical Stability</b><br>化学稳定性                    | Stable under recommended storage conditions.<br>在推荐的储存条件下可以保持稳定。     |
| <b>Possibility of Hazardous Reactions</b><br>危险反应的可能性 | None under normal processing.<br>正常处理下没有。                            |
| <b>Conditions to Avoid</b><br>应避免的条件                  | Exposure to air or moisture over prolonged periods.<br>暴露在空气中或长时间受潮。 |
| <b>Incompatible materials</b><br>不相容材料                | Acids, Oxidizing agents, Bases.<br>酸，氧化剂，碱。                          |
| <b>Hazardous Decomposition Products</b><br>有危害分解物     | Carbon oxides.<br>二氧化碳。                                              |

## Section 11 – Toxicological Information

### 第十一部分 毒理学信息

|                                                         |                                                                                                                                          |
|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Irritation</b><br>刺激                                 | In the event of exposure to internal contents, vapour fumes may be very irritating to the eyes and skin.<br>内部物质暴露的情况下，蒸汽烟雾可能对眼睛和皮肤的刺激性。 |
| <b>Sensitization</b><br>致敏                              | Not Available.<br>不适用。                                                                                                                   |
| <b>Reproductive Toxicity</b><br>再生毒性                    | Not Available.<br>不适用。                                                                                                                   |
| <b>Toxicologically Synergistic Materials</b><br>协同材料毒理学 | Not Available.<br>不适用。                                                                                                                   |



## Section 12-Ecological Information

### 第十二部分 生态学信息

|                                                                                                                                          |                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General note:</b><br>通用信息:                                                                                                            | Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.<br>不允许未稀释或大量的产品接触地下水、水道或污水处理系统。 |
| <b>Anticipated behavior of a chemical product in environment/possible environmental impact/ ecotoxicity</b><br>化学产品在环境/可能的环境预期的行为的一种生态毒性 | Not Available.<br>不适用。                                                                                                                         |

## Section 13 – Disposal Considerations

### 第十三部分 废弃处置

|                                                |                                                                                                                                                                                                                                                                                       |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Waste Treatment</b><br>废弃处置方法               | Recycle or dispose of in accordance with government, state & local regulations.<br>建议遵照国家和地方法规处置或再利用。                                                                                                                                                                                 |
| <b>Attention for Waste Treatment</b><br>废弃注意事项 | 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.<br>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

|                                             |                                                                                                                                                                                                                                                                |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>UN number</b><br>UN 编号                   | UN3480 or UN3481                                                                                                                                                                                                                                               |
| <b>UN Proper shipping name</b><br>联合国运输专用名称 | UN3480-Lithium ion batteries (PI 965)<br>UN3480-锂离子电池组 (PI 965)<br>UN3481- Lithium ion Batteries packed with equipment (PI 966)<br>UN3481-锂离子电池与设备包装在一起 (PI 966)<br>UN3481-Lithium ion Batteries Contained In Equipmen (PI 967)<br>UN3481-锂离子电池安装在设备中 (PI 967) |
| <b>Labels for Package</b><br>包装标志           |                                                                                                                                                                             |
| Air<br>空运                                   | IATA DGR Manual 66 <sup>th</sup><br>IATA 第 66 版 DGR 手册                                                                                                                                                                                                         |



|                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Sea<br>海运                                                                                                                                                                                                                                                                                                                                                                                                                                | IMDG CODE (Amdt. 42-24) SP188<br>海运危险货物规则 (Amdt. 42-24) 的特殊规定 188                                |
| Road<br>道路运输                                                                                                                                                                                                                                                                                                                                                                                                                             | ADR - Agreement concerning the International Carriage of Dangerous Goods by Road<br>国际危险货物道路运输协定 |
| Railway<br>铁路运输                                                                                                                                                                                                                                                                                                                                                                                                                          | RID-Regulations concerning the International Carriage of Dangerous Goods by Rail<br>国际危险货物铁路运输协定 |
| <p>电池已通过 UN38.3 测试。<br/>Battery are tested and has passed in accordance with UN38.3.</p> <p>单独的锂离子电池在运输中应防止短路。他们应该在运输期间用坚固的包装来固定，确保货物不会倾斜，掉落和破损，防止货物倒塌和被雨水浸湿。<br/>Separate Lithium-ion batteries when shipping to prevent short-circuiting. They should be packed in strong packaging for support during transport, ensure that the goods will not falling, dropping, and breakage, Prevent collapse of cargo piles and wet by rain.</p> |                                                                                                  |

## Section 15 – Regulatory Information

### 第十五部分 法规信息

#### Dangerous Goods Regulations

《危险物品规则》

Recommendations on the Transport of Dangerous Goods-Model Regulations (23<sup>rd</sup> revised edition)

联合国《关于危险货物运输的建议书 规章范本》（23<sup>rd</sup> 修订版）

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）

International Maritime Dangerous Goods (IMDG Code 2022 Edition Amdt 41-22)

《国际海运危险货物规则》（IMDG Code 2022 版 Amdt 41-22）

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 (GB 6944-2012)

《危险货物分类和品名编号》- GB 6944-2012

2012《职业安全与健康标准》危险通信标准（29 CFR 1910.1200）

Toxic Substance Control Act (TSCA)

《有毒物质控制法》（TSCA）

Code of Federal Regulations

《联邦条例》

In accordance with all Federal, State and local laws

符合所有联邦、州和地方法律

## Section 16 – Additional Information

### 第十六部分 其他信息

Sample photo 样品照片:



To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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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.

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