Section 1 – Chemical Product and Company Identification

Product name   SDL-752530-500mAh
产品名称       SDL-752530-500mAh
Manufacturer    SHIDA BATTERY TECHNOLOGY CO., LTD.
制造商         佛山市实达科技有限公司
Address         NO.30 XINGYE ROAD, SHISHAN INDUSTRIAL PARK, NANHAIDISTRICT, FOSHAN CITY, GUANGDONG, P. R. CHINA
地址           中国广东省佛山市南海区狮山工业园C区兴业路30号
Post code      528225
邮编           528225
TEL            +86-757-8668 8555
电话           +86-757-8668 8555
Emergency telephone +86-757-8668 8555
紧急电话       +86-757-8668 8555
FAX            +86-757-8668 8199
传真           +86-757-8668 8199
Email         wu@shida-batteries.com Chemical
电子邮件       wu@shida-batteries.com Chemical

Section 2 – Composition/Information on Ingredient

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Chemical Formula or Abbreviation</th>
<th>CAS No. CAS编号</th>
<th>Content (wt%) 含量（wt%）</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lithium Cobalt Oxide</td>
<td>LiCoO2</td>
<td>12190-79-3</td>
<td>30-50</td>
</tr>
<tr>
<td>Carbon / Graphite</td>
<td>C</td>
<td>7782-42-5</td>
<td>15-25</td>
</tr>
<tr>
<td>Aluminum Foil</td>
<td>Al</td>
<td>7429-90-5</td>
<td>3-10</td>
</tr>
<tr>
<td>Copper Foil</td>
<td>Cu</td>
<td>7440-50-8</td>
<td>7-14</td>
</tr>
<tr>
<td>PVDF (Polyvinylidene Fluoride)</td>
<td>(C2H2F2)n</td>
<td>24937-79-9</td>
<td>3-8</td>
</tr>
<tr>
<td>Electrolyte</td>
<td>--</td>
<td>21324-40-3</td>
<td>10-20</td>
</tr>
<tr>
<td>Al Lamination Film</td>
<td>--</td>
<td>7429-90-5</td>
<td>&lt;8</td>
</tr>
</tbody>
</table>

www.shida-battery.com
Section 3 - Hazards Identification

Primary routes of entry

主要入侵路径

<table>
<thead>
<tr>
<th>Primary Routes</th>
<th>Chinese</th>
<th>English</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin contact</td>
<td>No</td>
<td>No effect under routine handling and use</td>
</tr>
<tr>
<td>皮肤接触</td>
<td>无报道</td>
<td>常规操作和使用时没有影响</td>
</tr>
<tr>
<td>Skin absorption</td>
<td>No</td>
<td>No effect under routine handling and use</td>
</tr>
<tr>
<td>皮肤吸收</td>
<td>无报道</td>
<td>常规操作和使用时没有影响</td>
</tr>
<tr>
<td>Eye contact</td>
<td>No</td>
<td>No effect under routine handling and use</td>
</tr>
<tr>
<td>眼睛接触</td>
<td>无报道</td>
<td>常规操作和使用时没有影响</td>
</tr>
<tr>
<td>Inhalation</td>
<td>No</td>
<td>No effect under routine handling and use</td>
</tr>
<tr>
<td>吸入</td>
<td>无报道</td>
<td>常规操作和使用时没有影响</td>
</tr>
<tr>
<td>Ingestion</td>
<td>No</td>
<td>No effect under routine handling and use</td>
</tr>
<tr>
<td>食入</td>
<td>无报道</td>
<td>常规操作和使用时没有影响</td>
</tr>
</tbody>
</table>

Signs and Symptoms of Exposure

接触引发的症状与体征

<table>
<thead>
<tr>
<th>Primary Routes</th>
<th>Chinese</th>
<th>English</th>
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<tbody>
<tr>
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<td>No effect under routine handling and use</td>
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<td>食入</td>
<td>无报道</td>
<td>常规操作和使用时没有影响</td>
</tr>
</tbody>
</table>

Reported as carcinogen  Not applicable

<Caution>

Risk of exposure occurs only if the battery is mechanically or electrically abused. May explode in a fire, which could release hydrogen fluoride gas and smoke. Use extinguishing media suitable for materials burning in fire.

当遭到机械损伤或者滥用，电池有泄漏的危险。投入火中会导致爆炸，氯化氢气体或烟雾的释放。物料燃烧时要使用适当的灭火介质灭火。

Section 4 - First Aid Measures

第四项 急救措施

<table>
<thead>
<tr>
<th>Primary Routes</th>
<th>Chinese</th>
<th>English</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>Not a health hazard</td>
<td>无危害健康</td>
</tr>
<tr>
<td>吸入</td>
<td>不危害健康</td>
<td></td>
</tr>
<tr>
<td>Eye contact</td>
<td>Not a health hazard</td>
<td>无危害健康</td>
</tr>
<tr>
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<tr>
<td>皮肤接触</td>
<td>不危害健康</td>
<td></td>
</tr>
</tbody>
</table>
皮肤接触 不危害健康
Ingestion  If swallowed, obtain medical attention immediately
食入 如果误食，立即医疗救助

<Caution>
IF EXPOSURE TO INTERNAL MATERIALS WITHIN CELL DUE TO DAMAGED OUTER A1 CASING, THE FOLLOWING ACTIONS ARE RECOMMENDED;
<警告>
如果因铝塑膜外壳破裂导致电池内部物质外露，建议采取以下处理措施：

Inhalation
If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth and seek medical attention.
吸入
如果吸入，立即转移到新鲜空气处。如果没有呼吸，立即实施口对口的人工呼吸并寻求医疗救助。

Eye & Skin contact
In case of contact, immediately flush eyes or skin with copious amounts of water for at least 15 minutes while removing contaminated clothing and shoes; seek medical attention.
眼睛或皮肤接触
万一接触到眼睛或皮肤，立即用大量水冲洗眼睛或皮肤，并且在15min内除去被污染的衣物，寻求医疗救助。

Ingestion
Drink milk / water and induce vomiting; seek medical attention.
食入
喝大量牛奶或水直至呕吐，并寻求医疗救助。

Section 5 - Fire Fighting Measures
第五项 消防措施

General Hazard
Cell is not flammable but internal organic material will burn if the cell is incinerated.
Combustion products include, but are not limited to hydrogen fluoride, carbon monoxide and carbon dioxide.
危险概述
电池不易燃烧，但是如果电池被焚烧会燃其内部的有机物质。燃烧产物不仅包含有HF，还会包含CO和CO₂。

Extinguishing Media
Use extinguishing media suitable for the materials that are burning.
灭火介质
使用与燃烧的物料相应的灭火介质灭火。

www.shida-battery.com
Special Firefighting  
特殊灭火

Instructions  
If possible, remove cell(s) from fire fighting area. If heated above 130°C, Cell(s) may 
explode/swell or leak.  
操作指南  
如果可能，将电池移出燃烧区域。电池如果被加热到130°C以上，有可能会发生爆炸、鼓
胀或泄露。

Firefighting Equipment  
Use NISH/MSHA approved full-face self-contained breathing apparatus(SCBA) with full 
protective gear.  
灭火设备  
使用NISH/MSHA认证的全面部配套呼吸装置（SCBA）以及全身防护服。

Section 6 - Accidental Release Measures  
第六项 泄露应急处理

Procedures of Personal Precautions  
Put on adequate protective equipment. Do not breathing vapour.  
个人应急处理方法  
装配全套的防护设备，避免呼吸进烟雾。

Environmental precautions  
Keep away from drains, surface-water, ground-water and soil.  
环保措施  
远离雨水、地表水、地下水和土壤。

Methods for Cleaning Up  
Collect as much as possible in a clean container for disposal. Disposal according to local 
regulations.  
消除方法  
使用洁净的容器尽可能多地收集泄漏物，按照当地的法令法规进行处理。

On Land  
Place material into suitable containers and call local fire/police department.  
位于陆地上  
将物料至于适当的容器内储存或运输，并且告知当地的消防部门和警方。

In Water  
If possible, remove from water and call local fire/police department.  
在水里  
如果可能，从水中移出，并且通知当地的消防部门和警方。

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Section 7 - Handling and Storage

Handling
No special protective clothing required for handling individual cells.

Storage
Store away from sources of heat or ignition. Over high temperature will make the cell inflate, melt the separator, causing short circuit. Storage area should be cool, dry, well ventilated, out of direct sunlight, away from metal or sharp edge, such as keys, pins, or wires.

Section 8 - Exposure Controls /Personal Protection

Respiratory Protection
In case of battery venting, provide as much ventilation as possible. Avoid confined areas with venting cell cores. Respiratory Protection is not necessary under conditions of normal use.

Eye/face protection
Not necessary under conditions of normal use.

Foot protection
Not necessary under conditions of normal use.

Gloves
Not necessary under conditions of normal use.
Section 9 - Physical and Chemical Properties

第九项 理化性质
Nominal Voltage: 3.7V  
标定电压: 3.7V  
Rated Capacity: 500mAh  
额定容量: 500mAh  
Watt hour(Electric energy): 1.85Wh  
电能: 1.85Wh  
Appearance Silvery-white, solid battery.  
外观与性状 银白色固体电池。  
Odor Odorless  
气味 无嗅  
Vapor Pressure(mmHg) N/A  
蒸汽压 无意义  
Vapor Density(air=1) N/A  
蒸气密度 无意义  
Boiling Point N/A  
沸点 无意义  
Solubility in water Insoluble  
水溶性 不溶于水  
Specific Gravity N/A  
比重 无意义  
Density N/A  
密度 无意义

Section 10 - Stability and Reactivity

第十项 稳定性与反应活性

Reactivity
None during normal operating or handling conditions.  
反应活性
正常操作时，没有反应活性。

Hazardous decomposition  
None during normal operating conditions. If Cells are leaked, hydrogen fluoride, carbon monoxide and carbon dioxide may be released.  
有害的分解
正常操作下，不会发生分解。但如果电池泄漏，氟化氢，一氧化碳和二氧化碳可能会释放出来。

Incompatibilities
None during normal operation. Avoid exposure to heat, open flame and corrosives  
使用禁忌

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Conditions to avoid
Don’t short terminals and immerse in water or pour.
Don’t heat or throw in fire and solder.
Don’t attempt to crush or drop.
Don’t put it in microwave oven, oven or pressure container.

Section 11 - Toxicological Information
第十一项 毒理学资料

This product does not elicit toxicological properties during routine handling and use.

Section 12 - Ecological Information
第十二项 生态学资料

Section 13 - Disposal Considerations
第十三项 报废相关事项

Methods of disposal

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Lithium-ion Polymer battery contains no toxic metals, only naturally occurring trace elements. It is advisable to consult with local authorities as disposal regulations may vary dependent on location.

**Dangers**

Incinerating and disposing of the cell in fire are strictly prohibited, because it may cause rupture.

Fully charged battery or only partially discharged batteries may cause fire or explosion when disposed improperly. Fully discharged the battery before disposal.

**Section 14 - Transport Information**

**第十四项 运输信息**

**UN number:** UN3480

The Lithium-ion Polymer Battery (SDL-752530-500mAh): Watt hour 1.85Wh,

Each small package including battery more than 2.5Kg, according to Packing instruction 965 section IB of IATA DGR 54rd Edition for transportation, or the special provision 188 of IMDG, or the 《Recommendations on the Transport of Dangerous Goods Mode Regulations》.

(1) Exceeds the standard of Table 965-IB By Air, so it belongs to dangerous goods. Each packages must be labeled with a "lithium battery handling label" in addition to "the Class 9 hazard label".

(2) The goods are packaged according to the special provision 188 of IMDG, the goods are not subject to IMDG By Sea

The goods are subject to the Class 9 hazard

More information concerning shipping, testing, marking and packing can be obtained from Lable master at [http://www.labelmaster.com](http://www.labelmaster.com)

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.

**Transport Fashion:** By air, by sea, by railway, by road

www.shida-battery.com
UN编号：UN3480
这款锂聚合物电池（SDL-752530-500mAh）1.85瓦时，

每个小包装件含电池重量超过2.5Kg。根据包装说明965 IB of IATA DGR 54rd版，及特别规定188《国际海运危险货物运输规则》

（1）空运，不满足965-IB要求，可按危险品货物条件办理，每一包装件须贴有第9类危险性标签和锂电池操作标签。

（2）海运，满足IMDG特殊规定188，可按非限制性货物条件办理。

此款锂聚合物电池属于9类危险性性货物
更多关于航运、测试、标记和包装的信息可以从http://www.labelmaster.com网站获得

单独的锂聚合物电池海运，需要防止电池短路，电池需要装在坚固的包装箱中运输，货物不能有倒下、跌落、损坏等，防止堆放的货物倒塌或雨淋！

运输方式：空运、海运、铁路、公路

Section 15 - Regulatory Information
第十五项 法规信息

Law Information
《Dangerous Goods Regulation》
《Recommendations on the Transport of Dangerous Goods Model Regulations》
《International Maritime Dangerous Goods》
《Technical Instructions for the Safe Transport of Dangerous Goods》
《Classification and code of dangerous goods》
《Occupational Safety and Health Act》(OSHA)
《Toxic Substances Control Act》(TSCA)
《Consumer Product Safety Act》(CPSA)
《Federal Environmental Pollution Control Act》(FEPCA)
《The Oil Pollution Act》(OPA)
《Superfund Amendments and Reauthorization Act TittleIII(302/311/312/313)》(SARA)
《Resource Conservation and Recovery Act》(RCRA)
《Safety Drinking Water Act》(CWA)
《California Proposition 65》
《Code of Federal Regulations》(CFR)
In accordance with all Federal ,State and Local laws

法律信息
《危险品管理规章》
《危险品货物运输规章范本》
《国际海上危险货物运输规则》
《危险品航空安全运送技术指南》

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《危险货物分类和品名编号》
《职业安全与卫生条例的危害》
《毒性物质控制法》
《消费品安全法》
《联邦环境污染控制法》
《石油污染法》
《附加基金修正复审法III(302/311/312/313)》
《资源保护和回收法》
《安全饮水法》
《加州提案65》
《美国联邦法规》

可参照联合国，国家，地方性法规

Section 16 - Additional Information

第十六项 其他信息

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.

以上信息均是基于我们已经了解到的且被认为是正确的数据基础上得到。因此在超过我们控制范围和我们所不熟悉的条件下，以及在此数据之后出现的数据暗示这些信息需要变动的情况下，我们不对产品使用后果负任何法律责任。这些信息是提供给使用者，以便其需要适当材料达到特定目的。