



# 扬州扬杰电子科技股份有限公司

## Material Safety Data Sheet (MSDS)

### 1. 产品与厂商资料/Product and Company Identification

|                          |   |           |               |
|--------------------------|---|-----------|---------------|
| 产品名称/Product Name:       | G1M   |           |               |
| 制造商/Manufacturer:        | YANGZHOU YANGJIE ELECTRONIC TECHNOLOGY CO., LTD     |           |               |
| 地址/Address:              | JIANGYANG INDUSTRIAL ZONE, YANGZHOU, JIANGSU, CHINA |           |               |
| 紧急联系电话/Tel:              | 0514-80982884                                       |           |               |
| 紧急联络人/Emergency Contact: | Zhang Meiling                                       | 传真电话/Fax: | 0514-87755189 |

### 2. 成分辨识资料/Composition, Information on Ingredients

| Part No. | Homogeneous Material Name | Chemistry Substance Name       | Content (%) | CAS. NO    |
|----------|---------------------------|--------------------------------|-------------|------------|
| G1M      | Chip                      | Si                             | 93.45%      | 7440-21-3  |
|          |                           | Pb                             | 3.50%       | 7439-92-1  |
|          |                           | SiO <sub>2</sub>               | 2.00%       | 7631-86-9  |
|          |                           | Al <sub>2</sub> O <sub>3</sub> | 0.50%       | 1344-28-1  |
|          |                           | Gold                           | 0.50%       | 7440-57-5  |
|          |                           | Others                         | 0.05%       | -----      |
|          | Lead Frame                | Cu                             | 99.95%      | 7440-50-8  |
|          |                           | Others                         | 0.05%       | -----      |
|          | Jumper                    | Cu                             | 99.95%      | 7440-50-8  |
|          |                           | Others                         | 0.05%       | -----      |
|          | Solder Paste              | Pb                             | 92.50%      | 7439-92-1  |
|          |                           | Sn                             | 5.00%       | 7440-31-5  |
|          |                           | Ag                             | 2.50%       | 7440-22-4  |
|          | Molding Compound          | Silica                         | 64.00%      | 14808-60-7 |
|          |                           | Epoxy Resin                    | 15.00%      | 29690-82-2 |
|          |                           | Phenolic Resin                 | 14.50%      | 9003-35-4  |
|          |                           | Carbon black                   | 0.50%       | 1333-86-4  |
|          |                           | Metal Hydroxide                | 6.00%       | -----      |
|          | Lead Finish               | Sn                             | 99.90%      | 7440-31-5  |
|          |                           | Others                         | 0.10%       | -----      |

### 3. 危害辨识数据/ Hazard identification

|                              |                                |
|------------------------------|--------------------------------|
| 危害成分/Hazard identification   | 芯片、锡膏含铅（属于 RoHS 豁免）/Include Pb |
| 危害/Hazard                    | 吞食有毒/Toxic if swallowed        |
| 防范措施/ Protection arrangement | 送医院就诊/See a doctor             |

### 4. 急救措施/ First Aid Measures

|  |
|--|
| 不同暴露途径之急救方法/First Aid Measures for Different Kinds of Exposures: N/A |
| · 吸入/Inhalation: N/A   |
| · 皮肤接触/Skin Contact: N/A   |
| · 眼睛接触/Eye Contact: N/A  |
| · 食入/Ingestion: N/A  |
| 最重要症状及危害效应/Most Important Symptoms and Hazard Reactions: N/A         |
| 对急救人员之防护/Protection to First-Aid Attendants: N/A                     |
| 对医师之提示/Suggestions to Doctors: N/A                                   |



### 5. 灭火措施/Fire Fighting Measures

|                           |  |
|---------------------------|--|
| 可燃界限/Inflammability limit | 阻燃/Flame retardant                       |
| 灭火剂/Extinguishing         | 用水，二氧化碳或砂/Water, carbon dioxide and sand |

### 6. 泄漏处理方法/Accidental Release Measures

|                                       |
|---------------------------------------|
| 个人应注意事项/Personal Precautions: N/A     |
| 环境注意事项/Environmental Precautions: N/A |
| 清理方法/Methods for Cleaning: N/A        |

### 7. 安全处置与储存方法/Handling and Storage

|   |
|---|
| 温度不大于 35 度，湿度不大于 85%RH，通风性良好/Temperature≤35℃，RH≤85%，ventilation is good |
|---|

### 8. 暴露预防措施/Exposure Controls, Personal Protection

|   |
|---|
| 工程控制/Engineering Measures: N/A  |
| 控制参数/Control Parameters: N/A<br>· 八小时日时量平均容许浓度 (TWA)/短时间时量平均容许浓度 (STEL)/最高容许浓度 (CEILING): N/A<br>· 生物指标/BEIs: N/A                         |
| 个人防护设备/Personal Protection Equipment: N/A<br>· 呼吸防护/Respiration: N/A<br>· 手部防护/Hand: N/A<br>· 眼睛防护/Eye: N/A<br>· 皮肤及身体防护/Skin & Body: N/A |
| 卫生措施/Hygiene Measures: N/A  |

### 9. 物理及化学性质/Physical and Chemical Properties

|                         |  |
|-------------------------|--|
| 物质状态/State of Substance | 固体/Solid                                     |
| 形状/Appearance           | 本体黑色，引线白色（金属光泽）/Body is black, Lead is white |
| 气味/Odor                 | N/A  |
| 闪火点/Flashpoint          | N/A  |

### 10. 安定性及反应性/Stability and Reactivity

|     |
|-----|
| N/A |
|-----|

### 11. 毒性资料/Toxicological Information

|   |
|---|
| 急毒性/Acute Toxicity: N/A                     |
| 局部效应/Local Reactions: N/A                   |
| 致敏感性/Sensitivity: N/A                       |
| 慢毒性或长期毒性/Chronic or Long Term Toxicity: N/A |
| 特殊效应/Special Reactions: N/A                 |

### 12. 生态资料/Ecological information

|  |
|--|
| 可能之环境影响/环境流布/Possible Environmental Impact/Environmental Run-offs: N/A |
|--|

### 13. 废弃处置方法/Disposal Considerations

|                          |
|--------------------------|
| 废弃处置方法/Disposal Methods: |
|--------------------------|



## 扬州扬杰电子科技股份有限公司

采用符合政府法规方法处置/Meet the government to adopt legislation to deal with

### 14. 运送资料/Transportation Information

无特殊要求的按公司的常规包装, 产品的搬运应小心轻放。

For products with no special requirements, using regular package. Products' transportation should be handled with care.

### 15. 法规资料/Regulatory Information

适用法规/Applicable Regulation: N/A

### 16. 其他数据/Other Information

|                       |   |                        |
|-----------------------|---|------------------------|
| 参考文献<br>Ref. Document | N/A   |                        |
| 制表部门<br>Department    | 部门名称 Dept. Name: QA Dept.   |                        |
|                       | 地址/电话 Address/Tel.:<br>JIANGYANG INDUSTRIAL ZONE,YANGZHOU,JIANGSU,CHINA/0514-80982884 |                        |
| 制表人<br>Made By        | 职称/Title: QSE   | 姓名/Name: Zhang Meiling |
| 制表日期<br>Date Prepared | 2017-06-20  |                        |