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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION 化学品及企业标识**PRODUCT NAME:** Adhesiveless flexible copper clad laminates (DL)**产品名称:** 无胶型挠性覆铜板 (DL)**PRODUCT USE:** Substrate for flexible printed circuit boards.**用途:** 用于挠性印制电路板。**NAME of COMPANY and ADDRESS:** SHENGYI TECHNOLOGY CO.,LTD.No.5,West Industry Road, Songshan Lake Sci.&Tech. Industry Park, Dongguan,
Guangdong Province, China**公司名称及地址:** 广东生益科技股份有限公司;

中国广东省东莞市松山湖高新技术产业开发区工业西路5号

FOR MORE INFORMATION CALL:**电话:** (Monday-Friday, 8:00am-5:00pm)

86-769-22271828(Wanjiang/万江)

86-769-22899388(Songshan Lake/松山湖)

FAX/传真: 86-769-22271854**IN CASE OF EMERGENCY CALL:****紧急联络电话:** (24 Hours/Day, 7 Days/Week)

86-769-22271828(Wanjiang/万江)

86-769-22899388(Songshan Lake/松山湖)

Email/电子邮件: email@syst.com.cn**2. HAZARDS IDENTIFICATION 危险性概述****EMERGENCY OVERVIEW:****紧急情况概述:**

A nonflammable, sheet material. Dust, when machined or punched may cause skin or eye irritation. Fumes, if decomposed may irritate eyes, nose, and throat.

是一种难燃的层压板。当使用或打孔时可能产生粉末, 可能使皮肤或眼睛感到刺激。当分解时产生的气体会刺激眼睛、鼻和咽喉。

POTENTIAL HEALTH HAZARDS:**潜在的健康危害:****SKIN:** Dust may cause moderate skin irritation.**皮肤:** 粉末可能导致中等程度皮肤过敏。**EYES:** Dust may cause moderate eye irritation. Fumes may irritate eyes.**眼睛:** 粉末可能导致中等程度眼睛过敏。**INHALATION:** Trace of chemical solvents may be vapourized and diffused to air in the processes of varnish preparation and coating production.**吸入物:** 在涂覆生产过程时, 会有很少量化学溶剂挥发出来。**INGESTION:** Not determined.**摄食:** 未定义。**DELAYED EFFECTS:** Not determined**慢性影响:** 未定义。**3. COMPOSITION/INFORMATION ON INGREDIENTS 成份/组成信息**

INGREDIENT NAME	CAS #	WEIGHT %
成分名称	化学文摘号	重量比
Polyimide	(25038-81-7)	5-15
聚酰亚胺		
Copper foil	(7440-50-8)	85-95
铜箔		

4. FIRST-AID MEASURES 急救措施**SKIN:** Wash in flowing water or shower. Remove contaminated clothing.**皮肤:** 脱下已污染衣服, 用流动水冲洗。**CURRENT ISSUE DATE:** 现在版本日期: 20/01/2025

EYE: Irrigate with flowing water for 15 minutes. If irritation persists, consult a physician.

眼睛: 用流动水冲洗15分钟, 如过敏现象持续发生, 请求助于医生。

INHALATION: If overcome by dust or smoke, move to fresh air. If not breathing, give mouth-to-mouth resuscitation. Call physician.

吸入: 如粉末烟尘太多请转移到有新鲜空气的地方, 如没有呼吸, 请进行人工呼吸。并致电医生。

INGESTION: If large amounts are ingested, consult physician.

摄食: 如吸入大量, 请致电医生。

ADVICE TO PHYSICIAN: Treat symptomatically

建议医生: 处理出现的症状。

5. FIRE-FIGHTING MEASURES 消防措施

FLAMMABLE PROPERTIES: N/A

易燃烧性: 不适用

FLASH POINT: N/A

闪点: 不适用

FLASH POINT METHOD: N/A

闪点方式: 不适用

AUTOIGNITION TEMPERATURE: Not determined

自燃点温度: 未定义

UPPER FLAME LIMIT (Volume % in air): N/A

燃烧上限: 不适用

LOWER FLAME LIMIT (Volume % in air): N/A

燃烧下限: 不适用

FLAME PROPAGATION RATE (Solids): UL V-0

燃烧等级: UL V-0

OSHA FLAMMABILITY CLASS: N/A

OSHA 燃烧级别: 不适用

EXTINGUISHING MEDIA: Water, CO2 and dry chemical

灭火介质: 水、CO2及干化学品

UNUSUAL FIRE AND EXPLOSION HAZARDS: No risk of explosion.

不正常火灾及爆炸危险: 无爆炸危险。

SPECIAL FIREFIGHTING PRECAUTIONS/INSTRUCTIONS:

特别火灾指导:

Firemen should wear proper protective equipment and positive pressure self-contained breathing apparatus.

消防员须身穿保护装置及正压呼吸设施。

6. ACCIDENTAL RELEASE MEASURES 泄漏应急处理

IN CASE OF SPILL OR OTHER RELEASE: (Always wear recommended personal protection equipment)

如有泄漏或其他释放: (通常身穿所推荐的保护设施)

Not applicable, material is an article.

不适用于固体材料。

Spills and releases may have to be reported to local authorities.

有关泄漏应报告当地政府。

7. HANDLING AND STORAGE 操作处置与储存

NORMAL HANDLING: (Always wear recommended personal protective equipment.)

规范指南: (建议穿戴个人防护设施)

The primary exposure route is inhalation of dust when machine/punched

or from fumes or vapors when heated.

主要是预防暴露部位吸入当机器打孔时或冒烟、气化液体受热时所产生的粉尘。

STORAGE RECOMMENDATIONS: Stored in the absence of a catalytic environment such as UV light or excessive radiation, and in a cool, dry, clean, fireproof, flat and corrosion-free room.

贮存建议: 贮存在无催化作用的环境里, 例如无UV光或过量的辐射, 且在阴凉、干燥、干净、防火、平坦和无腐蚀气体的室内。

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION 接触控制和个体防护

ENGINEERING CONTROLS: Use local exhaust ventilation to control dust.

工程控制: 使用当地除尘通风设施。

PERSONAL PROTECTIVE EQUIPMENT:

个人防护措施:

SKIN PROTECTION: For brief contact to dust, no precautions other than clean body-covering clothing should be needed. Use gloves and aprons when prolonged or frequently repeated contact occurs.

皮肤保护: 对于短暂性的接触粉尘, 需要时清洗身体或衣服, 无预防措施。对于长期性的接触, 要配带手套和围裙

EYE PROTECTION: Use appropriate eye protection when machining material.

眼睛保护: 当加工材料时使用眼睛保护装置。

RESPIRATORY PROTECTION: When respiratory protection is required for certain operations, use a NIOSH-approved dust respirator.

呼吸保护: 当进行产生大量粉尘的操作时使用规范的粉尘防毒面罩。

ADDITIONAL RECOMMENDATIONS: N/A

其它建议: 不适用

9. PHYSICAL AND CHEMICAL PROPERTIES 理化特性

APPEARANCE: Yellow to amber sheets

外观: 黄色

PHYSICAL STATE: Solid

物理形态: 固体

ODOR: None, unless heated

气味: 无味, 除非加热

SPECIFIC GRAVITY: (Water = 1.0) 4.8 +/- 1.2

比重: (水=1.0) 4.8+/-1.2

SOLUBILITY IN WATER: (Weight %) Negligible in water

水溶性: (重量%) 在水中可忽略

10. STABILITY AND REACTIVITY 稳定性和反应性

NORMALLY STABLE? (conditions to avoid) Stable

通常稳定? 稳定

INCOMPATIBILITIES: Not determined

不兼容性: 未定义

HAZARDOUS DECOMPOSITION PRODUCTS: CO, CO₂, Oxides of nitrogen if heated in excess of 300 deg. C. Laser drilling or cutting may result in copper metal fume.

危险的腐化产品: CO, CO₂, NO_x (当加热超过300℃), 激光打孔或切割时会产生铜金属烟尘。

HAZARDOUS POLYMERIZATION? None

危险聚合物? 无

11. TOXICOLOGICAL INFORMATION 毒理学信息

IMMEDIATE (ACUTE) EFFECTS: Dust may cause moderate eye, skin and respiratory irritation.

敏感反应: 灰尘将导致眼、皮肤中度过敏。

DELAYED (SUBCHRONIC & CHRONIC) EFFECTS: Not determined

慢性反应: 未定义

12. ECOLOGICAL INFORMATION 生态学信息

Not Biodegradable

非生物降解。

13. DISPOSAL CONSIDERATIONS 废弃处置

Is the unused product a hazardous waste substances list of country hazardous waste if discarded? No
列入国家危险废物名录的危险废物不能够再利用时是否被丢弃? 不

OTHER DISPOSAL CONSIDERATIONS: Disposal must be made in accordance with all applicable Local regulations. Copper should be recycled.

其它处置问题: 处置必须遵循当地的法律法规。铜箔是可以再利用的。

Suggestion method after products will be discarded:

1. Separate reuse method: crush products into powder then separate the valued copper, recycling left plastic powder as a filler.
2. Incineration method.
3. Bury into deep earth.

产品报废之后有以下几种处置方法:

1. 分离法, 将产品粉碎, 将铜箔回收利用, 剩余物可作填充料;
2. 焚烧法;
3. 填埋法。

14. TRANSPORT INFORMATION 运输信息

For additional information on shipping regulations affecting this material, contact the information number found on the first page.

当运输规则影响到物料时, 需要取得额外信息, 请和第一页所提供的联系方式联系。

15. REGULATORY INFORMATION 法规信息

HAZARDOUS WASTE SUBSTANCES LIST OF COUNTRY: 国家危险废物名录

No materials listed in the hazardous waste substances list of country (HW13).

没有物质被列入国家危险废物名录当中 (HW13)。

ADDITIONAL REGULATORY INFORMATION:

附加法规资料:

SHENGYI TECHNOLOGY CO., LTD. does not use polybromide-biphenyls or polybromide-biphenyloxides as a fire retardant in any of our systems.

广东生益科技股份有限公司没有采用多溴联苯或多溴联苯醚作为阻燃剂在产品当中。

16. OTHER INFORMATION 其它信息

Edit Company: SHENGYI TECHNOLOGY CO., LTD.

编制单位: 广东生益科技股份有限公司

Bibliography: GB/T 16483, Safety data sheet for chemical products-Content and order of sections.

参考文献: GB/T 16483, 化学品安全技术说明书