MSDS

MATERIAL SAFETY DATA SHEET

化学品安全说明书

Prepared For : **SUNLU (Guangdong) Technology Co., Ltd**
广东三绿科技有限公司
No. 172, Tanlong North Road, Tanzhou Town, Zhongshan City, Guangdong Province
中山市坦洲镇潭隆北路 172 号

Prepared By : **Zhongshan LCS Compliance Testing Laboratory Ltd.**
中山立讯检测有限公司
Y1403, 14th Floor, One of the 15 East Xinxing Avenue, Guzhen Town, Zhongshan City, Guangdong Province.
广东省中山市古镇镇新兴大道东15号华星家居建材城14楼1403

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Written by: Terry.Wang _____ **Approved by:** Cat Zhang _____

LCS TESTING LABORATORY APPROVED

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Section 1-Chemical Product and Company Identification /化学品产品信息和制造商信息

Product: Standard Resin

产品名: 刚性光敏树脂

Trade mark: N/A

商标：N/A

Model(s): N/A

型号：N/A

Manufacture: SUNLU (Guangdong) Technology Co., Ltd

制造商：广东三绿科技有限公司

Address:No. 172, Tanlong North Road, Tanzhou Town, Zhongshan City, Guangdong Province

地址：中山市坦洲镇潭隆北路172号

Post Code/邮编: / **Fax No/传真: /** **Emergency Telephone/紧急电话:/**

Section 2- Hazards Identification /危害信息

2.1 GHS label elements, including precautionary statements

Pictograph：象形图



Warning word：信号词 Danger 危险

Risk statement：危险说明

H302 is harmful to swallow.
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H318 caused severe eye damage.
H355 may cause respiratory irritation
H373 Prolonged or repeated exposure may damage organs.
H411 is toxic to aquatic organisms and has long lasting effects
H302 吞咽有害
H315 造成皮肤刺激
H317 可能引起皮肤过敏反应
H318 造成严重眼损伤
H355 可能造成呼吸道刺激
H373 长期或反复接触可能损害器官
H411 对水生生物有毒并具有长期持续影响

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Precautionary statement：防范说明	P260 Do not inhale dust/smoke/gas/smoke/vapor/spray. P261 Avoid inhaling dust/smoke/gas/smoke/vapor/spray. P264 Wash hands and face thoroughly after handling. P271 can only be used outdoors or in well-ventilated areas. P272 Contaminated work clothes shall not be taken out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves/Wear protective clothing/wear protective eye mask/Wear protective mask. P260 不要吸入粉尘/烟/气体/烟雾/蒸气/喷雾。 P261 避免吸入粉尘/烟/气体/烟雾/蒸气/喷雾。 P264 作业后彻底清洗手部和脸部 P271 只能在室外或通风良好之处使用。 P272 受沾染的工作服不得带出工作场地。 P273 避免释放到环境中。 P280 戴防护手套/穿防护服/戴防护眼罩/戴防护面具。
Accident response：事故响应	P310 Call a detoxification center or doctor immediately. P312 If you feel unwell, call a detoxification center or doctor. P314 Seek medical attention if you feel unwell. P321 Specific treatment (see label). P363 Contaminated clothing can be reused only after washing. P391 Collect spills P301+P310 If swallowed by mistake: Call the detoxification center/doctor immediately. P302+P352 IF ON SKIN:Wash with plenty of water P304+P340 In case of accidental inhalation: Transfer the victim to a place with fresh air and maintain a resting position with comfortable breathing P332+P313 If skin irritation occurs: Seek medical attention. P333+P313 If skin irritation or rash occurs: Seek medical attention. P362+P364 Remove all contaminated clothing and wash it before reuse. P305+P351+P338 If entering eyes: Rinse carefully with water for a few minutes. If contact lenses are worn and can be easily removed, remove them. Keep rinsing. P310 立即呼叫解毒中心或医生。 P312 如感觉不适，呼叫解毒中心或医生。 P314 如感觉不适，须求医/就诊。 P321 具体治疗（见标签）。 P363 沾染的衣服清洗后方可重新使用。 P391 收集溢出物 P301+P310 如误吞咽：立即呼叫解毒中心/医生。 P302+P352 如皮肤沾染：用大量肥皂和水清洗。 P304+P340 如误吸入：将受害人转移到空气新鲜处，保持呼吸舒适的休息姿势。 P332+P313 如发生皮肤刺激：求医/就诊。 P333+P313 如发生皮肤刺激或皮疹：求医/就诊。 P362+P364 脱掉所有沾染的衣服，清洗后方可重新使用。 P305+P351+P338 如进入眼睛：用水小心冲洗几分钟。如戴隐形眼镜并可方便地取出，取出隐形眼镜。继续冲洗。
Safe storage：安全储存	P403+P233 Store in a well-ventilated place. Keep container airtight. P405 storage area must be locked.

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Waste disposal：废弃处置	P403+P233 存放在通风良好的地方。保持容器密闭。 P405 存放处须加锁。 P501 Dispose of contents/containers in accordance with local/regional/national/international regulations. P501 按照地方/区域/国家/国际规章处置内装物/容器。

2.2 0ther hazards which do not result in classification 其他未分类的危害

No data available 无可用数据

Section 3- Composition/Information on Ingredient /化学品产品信息和制造商信息

Chemical Name 化学名	CAS No.	In % By Weight 比重%
Urethane acrylate	68987-79-1	30
Morpholine, 4-(1-oxo-2-propenyl)	5117-12-4	40
Tricyclodecane dimethanol diacrylate	42594-17-2	15
Ethylene diacrylate	26570-48-9	15

Section 4- First Aid Measures /急救措施

Skin touch: Take off contaminated clothing. Wash the contaminated skin with water and soap. Immediately consult a doctor.

皮肤接触：脱去被污染的衣物。用水和肥皂清洗被污染的皮肤。立即咨询医生。

Eyes touch: Remove contact lenses. Wash the contaminated eye with plenty of water for at least 15 minutes. Avoid powerful water stream. Consult a doctor if disturbing symptoms occur.

眼睛接触：摘掉隐形眼镜。用大量的水冲洗被污染的眼睛至少15分钟。避免强力水流。如果出现令人不安的症状，请咨询医生。

Inhalation: Remove to fresh air. Keep warm and calm. Consult a doctor, if disturbing symptoms appear.

吸入：移至空气新鲜处。保持温暖和冷静。如果出现令人不安的症状，请咨询医生。

Ingestion: Do not induce vomiting. Rinse mouth with water. Never give anything to drink to an unconscious person. Consult a doctor. Show the container or label.

摄入：不要催吐。用清水漱口。不要给昏迷的人喝东西。去看医生。展示容器或标签。

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Section 5- Fire Fighting Measures /消防措施

5.1 Extinguishing media

Suitable extinguishing media: Foam, dry extinguishing agents, water spray.

Unsuitable extinguishing media: Water jet-risk of the propagation of the flame.

5.1 灭火剂

适用灭火剂：泡沫、干粉灭火剂、水喷雾。

不合适的灭火介质：喷水，有火焰蔓延的危险。

5.2 Special hazards arising from the substance or mixture:

During the fire, the product may produce toxic fumes of carbon monoxide and dioxide, nitric oxides and other unidentified products of thermal decomposition. Do not inhale combustion products.

5.2 物质或混合物产生的特殊危害：

在火灾过程中，该产品可能产生有毒烟雾的一氧化碳和二氧化碳，一氧化氮和其他不明产品的热分解。不要吸入燃烧产物。

5.3 Advice for firefighters:

Personal protection typical in case of fire. Do not stay in the fire zone without self-contained breathing apparatus and protective clothing resistant to chemicals.

5.3 对消防员的建议：火灾时典型的个人防护。没有自给式呼吸器和耐化学品的防护服，不要留在火区。

Section 6- Accidental Release Measures /泄露应对措施

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation, especially in confined areas. Do not breathe dust, fume, gas, mist, vapors or spray.

6.1 个人注意事项、防护装备和应急程序

将人员疏散到安全区域。避免与皮肤、眼睛或衣服接触。确保足够的通风，特别是在密闭的区域。不要吸入灰尘、油烟、气体、薄雾、蒸汽或喷雾。

6.2 Environmental precautions:

Prevent product from entering drains.

6.2 环境注意事项：防止产品进入排水管。

6.3 Methods and material for containment and cleaning up

Pick up and transfer to properly labeled containers. Avoid generation of dust.

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6.3密封和清理的方法和材料拿起并转移到适当标记的容器中。避免产生灰尘。

Section 7- Handling and Storage /操作和储存

7.1 Precautions for safe handling:

Handle in accordance with good occupational hygiene and safety practices. Avoid skin and eyes contamination. Before break and after work wash hands carefully. Use personal protective measures. Ensure adequate ventilation. Do not let the product to get into mouth. Do not breathe dust, fume, gas, mist, vapors or spray.

7.1 安全搬运注意事项：

按照良好的职业卫生和安全规范处理。避免皮肤和眼睛

污染。休息前和工作后要认真洗手。做好个人防护措施。

确保充足的通风。不要让产品进入口腔。不要吸入灰尘、油烟、气体、薄雾、蒸汽或喷雾。

7.2 Conditions for safe storage, including any incompatibilities:

Keep only in original, tightly closed containers in a cool and well-ventilated area. Keep away from food, beverages or feed for animals. Avoid direct exposure to sunlight. Keep away from strong acids and oxidizing agents. After opening, seal the container and store in an upright position to prevent leakage.

7.2 安全存储条件，包括任何不兼容性：

只能保存在原始的，密封的容器中，在阴凉和通风良好的地方。远离食物、饮料或动物饲料。避免直接暴露在阳光下。远离强酸和氧化剂。打开后，密封容器，直立存放，防止泄漏。

Section 8- Exposure Controls, Personal Protection /接触控制和个人防护措施

8.1 Exposure controls:

Engineering controls: Ensure adequate ventilation, especially in confined areas.

8.1 暴露控制：

工程控制：确保足够的通风，特别是在密闭区域。

8.2 Personal protective equipment:

8.2.1 Personal protective equipment:

Respiratory protection: Special protection is generally not required, but if exposed to dust, it is recommended to wear self absorption filter dust masks.

8.2个人防护装备：

8.2.1个人防护装备：

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呼吸防护：一般不需要特殊防护，但如果接触粉尘，建议佩戴自吸式过滤防尘口罩。

Skin protection: Wear suitable protective clothing and gloves.

皮肤保护：穿戴合适的防护服和手套。

Eye protection: Not necessary under normal conditions. Wearing chemical safety protective glasses if necessary.

护眼：正常情况下不需要。必要时佩戴化学安全防护眼镜。

8.2.2 Hygiene measures: Wash hands or take a shower after working.

8.2.2 卫生措施：工作后应洗手或淋浴。

8.3 Environmental exposure controls: Avoid release to the environment

8.3环境暴露控制：避免释放到环境中

Section 9- Physical and Chemical Properties /物理和化学成分

Physical State: N/A	物理状态：无资料
Color: N/A	颜色：无资料
Odor: N/A	气味：无味
Density: N/A	沸点：无资料
evaporation point: N/A	熔点：无资料

Section 10- Stability and Reactivity /稳定性和化学反应

Stability: Normal conditions and stability.

稳定性：正常环境下稳定。

Avoid material: N/A

避免接触的条件：N/A

Avoid contact with conditions: N/A

禁配物：不详

Aggregate hazard: N/A

危险成份：不详

Decomposition products: N/A

分解物：不详

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Section 11- Toxicological information /毒理学信息

This product have mild toxicity. Ingestion may cause mouth, throat and intestinal buns irritation and damage.

Get medical aid.

这个产品没有毒物学的数据。信息提供是基于成分和类似产品的毒物学的知识。如果有必要立即就医。

Section 12- Ecological Information /生态学信息

Biodegradability: Data not available

生物降解能力：在此不适应。

Precautions: Not available

预防措施：在此不适用。

Section 13- Disposal Considerations /废弃处置

13.1 Waste treatment methods

Disposal method for the product: disposal in accordance with the local legislation. Do not empty into drains. Waste code should be given in the place of waste formation. The classification of this waste meets criteria for dangerous waste.

Disposal methods for used packing: reuse/recycling/liquidation of empty containers dispose in accordance with the local legislation. The classification of this waste meets criteria for dangerous waste.

Legal Basis: Directive 2008/98/EC, 94/62/EC.

13.1 废物处理方法

产品处置方法：按照当地法规处置。不要排入排水管。在产生废物的地方应注明废物编号。这种废物的分类符合危险废物的标准。

用过的包装处理方法：按照当地法律规定，对空容器进行再利用/回收/清理处理。这种废物的分类符合危险废物的标准。

法律依据:指令 2008/98/EC、94/62/EC。

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Section 14 – Transport Information /运输信息

14.1. UN number: Not regulated

14.1. 联合国编号：不受管制

14.2. UN proper shipping name: Not regulated

14.2. 联合国适当的运输名称：不受管制

14.3. Transport hazard class(es): Not regulated

14.3. 运输危险等级：不受管制

14.4. Packing group: Not regulated

14.4. 包装组：不规范

14.5. Environmental hazards: Not regulated

14.5. 环境危害：不受监管

14.6. Special precautions for user: Special precautions

14.6. 用户特殊注意事项：特殊注意事项

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code: Not available

14.7. 根据 MARPOL 附则 II 和 IBC 规则散装运输：不适用

Section 15- Regulatory information /法规信息

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

International laws/regulations

15.1 针对该物质或混合物的安全、健康和环境法规/立法

国际法律/法规

15.2 Endanger the safety of information requirement on the label

Requirements for hazard and safety information on the label

15.2 危害标签信息要求的安全

对标签上危险和安全信息的要求

15.3 Tags according to EU guidelines

The product should follow the relevant regulations of EU Directive/Hazardous substances regulations

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15.3 标签符合欧盟指南

产品应符合欧盟指令/有害物质法规的相关规定

15.4 Chemical safety assessment:

A Chemical Safety Assessment is not required for mixtures in accordance with REACH Regulation.

15.4 化学品安全评价：

根据REACH法规，混合物不需要化学安全评估。

Section 16- Other Information /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.

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