



物质安全资料表

Material Safety Data Sheet

一、物质产品及公司资料

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

产品名称: 多层光学水晶板 Product name: Multilayer Optical Crystal Sheet		
产品编号: GMC3T11 Product identification: GMC3T11		
制造商 manufacturer 苏州奥美材料科技有限公司 Suzhou Omay Optical Materials Co., Ltd	地址 address 苏州高新区华山路 158-30 号 NO. 158-30, Huashan Road, New District, Suzhou, Jiangsu, China	电话 Tel 0512-66652011

二、成份资料说明

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

化学成份: Chemical composition	聚碳酸酯 Polycarbonate	聚甲基丙烯酸甲酯 Polymethylmethacrylate
重量百分率: Weight percentage:	>85%	<15%
CAS No	25971-63-5	9011-14-7

常态: State of substance:	固体 Solid
气味: Odor	无 No
颜色: Color:	本色 Nature
密度: Density:	1.2g/cm ³
外观: Appearance:	片材或薄膜 Film or sheet
UL 文件: UL file:	E249605

三、危害资料说明

SECTION 3: HAZARDS IDENTIFICATION





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危害物质: Hazardous substance:	基本上不含危害性物质 Basically no hazardous substances	
可能的危害 Possible harm	潜在健康危害效应: Potential health effects:	
	眼睛 Eye contact	可能对眼睛造成伤害, 若搓揉眼部, 可能造成眼角膜伤害 May cause injury to the eye, if rubbed eye, may cause corneal injury
	皮肤吞食 Skin contact	高温熔融树脂若接触皮肤会造成烫伤 Hot melt resin can cause burns if it touches the skin
	吸入 Ingestion	极轻微毒性 Not acutely toxic

四、急救措施

SECTION 4: FIRST AID MEASURES

不同暴露途径之急救方法: First aid for different exposure routes:	
吸入: Ingestion:	1. 由于形状推测, 未必是粒子吸入 1. Because of shape speculation, not necessarily particle inhalation
	2. 若不甚吸入高温熔融树脂产生的气体, 则立即远离该处至新鲜空气呼吸新鲜空气. 2. If you do not inhale the gases generated by high temperature molten resin, leave the area immediately to breathe fresh air.
	3. 发生咳嗽或呼吸困难立即就医 3. Seek medical advice immediately if cough or dyspnea occurs
眼睛接触: Eye contact:	1. 立即移走渗入物. 1. Remove the penetrant immediately.
	2. 当接触眼睛, 假如眼睛被搓揉, 可能刺激或伤害角膜, 立即用清水冲洗至少 15 分钟, 可搓揉. 2. When in contact with the eye, if the eye is rubbed, which may irritate or hurt the cornea, immediately rinse with water for at least 15 minutes, and then can be rubbed.
	3. 有任何异常, 立即就医. 3. If there is any abnormality, seek medical advice immediately.
皮肤接触: Skin contact:	1. 高温熔体下接触皮肤, 立即以冷水冲, 并依烧烫伤处理步骤紧急初步处理. 1. if contacted with skin under high temperature melt, immediately rinse with cold water, and take emergency preliminary treatment according to burn and scald treatment steps.
	2. 若高温熔体的树脂贴着皮肤, 切勿直接剥离皮肤, 就迅速就医 2. If the high-temperature resin is attached to the skin, do not directly peel the skin. Seek medical advice immediately
	3. 迅速就医. 3. Seek medical attention quickly.



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对急救人员的防护:配戴防护口罩及安全眼镜

First aid personnel protection: wear protective mask and safety glasses

对医生的提示:无需特殊解毒剂,视病患的症状给予支持性疗法.

Note to physicians: no special antidote is required, and supportive therapy should be given depending on the patient's symptoms.

五、灭火措施

SECTION 5: FIRE FIGHTING MEASURES

选用灭火剂: Fire extinguishing agent:	喷水, 泡沫灭火剂 Spray water, foam antiseptic
燃烧危害: Combustion hazards:	火发生时, 高分子因高温导致分解, 可能产生烟雾或高分子的分解碎片, 而这些烟雾或分解物, 可能含有刺激或毒性物质, 包括一氧化碳, 二氧化碳, 氮氧化合物, 及少量乙醛, 酚及其衍生物待化合物. 氧气不足时会释放浓烟, 机械处理时会发生粉体, 操作时须防粉体的累积导致爆炸. Fire occurs, the polymer breakdown caused by high temperature, smoke or polymer decomposition fragments may be produced, and the smoke or decomposition, may contain stimulus or toxic substances, including carbon monoxide, carbon dioxide, nitrogen oxides, and a small amount of acetaldehyde, phenol and their derivatives compounds. Insufficient oxygen release of smoke, when mechanical processing happens powder, operation is to prevent the accumulation of powder explosion.
灭火设备: Fire-extinguishing equipment:	消防人员需戴全套的防火衣, 若遇周围环境没有充分新鲜空气时, 需配戴正压空气呼吸器, 如无足够安全防护装配时, 消防人员需要安全远离安全地点使用灭火器灭火. Fire fighters should wear a full set of fire protection clothing. In case of insufficient fresh air in the surrounding environment, they should wear positive pressure air breathing apparatus. In case of insufficient safety protection assembly, fire fighters should keep away from safe places and use fire extinguishers.

六、意外处理措施

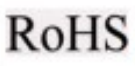
SECTION 6: ACCIDENTAL RELEASE MEASURES

个人应注意事项: Personal notes:	落在地板上或楼梯, 将会发生滑倒或跌倒的危险, 应立即清除. Fall on the floor or stairs, there will be a risk of slipping or falling, should be immediately removed.
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七、安全处置与处理方法

SECTION 7: HANDING AND STORAGE

安全处理: safety disposal



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制程气体可能刺激呼吸器官及皮肤,当吸入大量气体时,会造成呕吐和头痛
Process gas may irritate respiratory organs and skin, causing vomiting and headaches when inhaled in large amounts

存放方法:储存处不能暴露在雨水及阳光下,并远离热及火源.
Storage: keep out of the rain and sunlight and away from heat and fire.

八、暴露预防措施

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

控制浓度: Control concentration:	一般仅需良好的充足空气流通即可,若某些特殊操作或常规性操作时,则可能需抽气设备 Good ventilation is generally required, and some special or routine operations may require pumping equipment
个人防护设备: personal safety equipment:	呼吸防护:低浓度防护面具 Respiratory protection: low concentration protective mask
	手部防护:乳手套 Hand protection: milk gloves
	眼睛防护:防护安全目镜 Eye protection: protect safety eyepiece
	皮肤及身体防护:长袖作业服 Skin and body protection: long sleeve work clothes

九、物理及化学性质

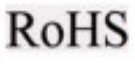
SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

物质状态: Physical state:	固体 Solid	形状: Appearance:	片材或卷材 Sheet or film
气味: Odor:	无味 No	沸点: Boiling point:	无资料说明 No
软化点: softening point:	152℃	蒸气压: Boiling point:	极微小可忽略不计 Negligible
自然温度: natural temperature:	>550℃	水中溶解度: Water solubility:	不溶于水 Insoluble
密度: Density:	1.2		

十、安全性及反应性

SECTION 10: STABILITY AND REACTIVITY

安全性: Security:	在建议条件下使用及贮藏非常安全 Very safe for use and storage under recommended conditions
特殊状况下可能的危害反应:不确定 Possible hazard response under special circumstances: uncertainty	



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应避免的状况: Situations to be avoided:	避免长期储存于高温场所,于长期高温下,可能导致产品分解。 Avoid long-term storage at high temperature, which may lead to product decomposition.
应避免的物质: Substances to be avoided:	强氧化剂 strong oxidant
危害分解物: Hazard resolvent:	生产操作时,高温可能导致烟体产生,包括高分子分解碎片等,而这些物质将会产生刺激性。 During production, high temperatures can cause smoke to form, including polymer fragments, which can be irritating.

十一、毒性资料

SECTION 11: TOXICOLOGICAL INFORMATION

致敏感性: Sensibility:	无资料说明 No
慢毒性或长期毒性: Slow or long-term toxicity:	无资料说明 No

十二、生态资料

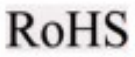
SECTION 12: ECOLOGICAL INFORMATION

可能的环境影响: Possible environmental impacts:	无法经生化反应分解,于陆上的环境将残存于土壤中,于水中环境则将沉降残存于沉积物中 Unable to be decomposed by biochemical reaction, it will remain in the soil in the land environment and settle in the sediments in the water environment.
崩解作用: Disintegration:	水无法溶解,于环境呈安全状态残存,于阳光长期照射将呈表层剥离状态,目前不能预期能经生化作用而分解 The water is insoluble, remaining in a safe state in the environment, and will be surface peeling after long-term exposure to sunlight. At present, it cannot be expected to decompose by biochemical action.
生态毒性: Eco toxicity:	无生态毒性 No

十三、废弃物处理方法

SECTION 13: DISPOSAL INFORMATION

废物处理: Waste disposal:	不得任意倾倒废弃物,尤其不得放置于地面,下水道及水源地,应依各所在地相关法律条文规范依法处理。 It is not allowed to dump the waste arbitrarily, especially not to place it in the ground, sewer and water source. It should be handled according to the relevant laws and regulations of each place.
回收处理:	可经由授权取得执照的回收者回收再利用。



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recycle processing:	It can be recycled by authorized and licensed recyclers.
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十四、运送说明

SECTION14: TRANSPORTATION INFORMATION

国际运送规定: Intentional Transport regulations	避免弄潮或被草率处理, 包装应该不要受损. Avoid wet or careless handling, and the packing should not be damaged.
运送方式: type of delivery	本产品于输送时适合内陆, 海运, 空运输送 The product is suitable for inland, sea and air transportation

十五、法规说明

SECTION15: REGULATORY INFORMATION

ROHS 指令	符合
WEEE/ROHS DIRECTIVE	conforms
REACH 指令	符合
REACH DIRECTIVE	conforms



十六、其他说明

SECTION16: REMARK

生产商: manufacturer	苏州奥美材料科技有限公司 Suzhou Omay Optical Materials Co., Ltd
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