

**SAFETY DATA SHEETS (SDS)**  
**化学品安全技术说明书 (SDS)**  
**According to Regulation (EC) No 1907/2006. Annex,**  
**Amended by COMMISSION REGULATION (EU) 2020/878.**  
**According to REGUL A TION (EC) No 1272/2008**

No.: EGZ2404010114C00102R

Date: Apr. 16, 2024

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**Prepared for** : Shenzhen Tuozhu Technology Co., Ltd.  
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**Date of Report** : Apr. 16, 2024  
**报告日期** : 2024年04月16日

Signed for and on behalf of  
EMTEK(Guangzhou) Co., Ltd.

Prepared by:



Tang Lidong, Lainey  
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Reviewed by:



Sun Wei, Ethan  
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Approved by:



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**1 - Identification of the substance /preparation and of the company/undertaking**  
**第一章 化学品及企业标识**

**Product identifier**

## 产品标识

Product name : Bambu Support for ABS  
产品名称 : 3D 打印线材  
Model : S06-xx (xx stands for any suffix)  
型号 : S06-xx(xx代表任意后缀)  
Unique Formula Identifier(UFI) : N/A  
唯一配方标识符  
Export to : /  
出口国  
CAS No. : Refer to section 3  
见第三章  
EC No. : Refer to section 3  
见第三章

**Relevant identified uses of the substance or mixture and uses advised against**

## 有关的确定的物质或混合物的用途和建议不适合的用途

Relevant identified uses : 3D printing filament  
有关已确定用途 : 3D打印线材

Uses advised against : /  
使用建议

## Details of the supplier of the safety data sheet

## 安全技术说明书提供者的详情

Manufacturer : Shenzhen Tuozhu Technology Co., Ltd.  
制造商 : 深圳拓竹科技有限公司  
Address : Room 201, Building A, No. 1 First Qianwan Road, Qianhai Shengang Cooperation Zone, Shenzhen  
地址 : 深圳市前海深港合作区前湾一路1号A栋201室  
Telephone/电话 : /  
E-mail address : /  
电子邮件地址

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Emergency phone : /  
紧急通信电话

**2 - Hazards Identification**  
**第二章 危险性概述**

**Hazards Classification**

危险性类别

In accordance with regulation (EC) No. 1272/2008(CLP), Classification of the substance or mixture  
根据(EC) No. 1272/2008(CLP)标准, 物质或混合物分类的分类

**Not classified.**

没有分类

For the full text of the health note (H-) mentioned in this section, see section 16.

本部分提及的健康说明 (H-)全文请见第16部分。

**Label elements**

标签要素

<b>Hazard pictograms</b>	: No symbol.
象形图	无危险图标
<b>Warning words</b>	: No signal word
警示词	无警示词
<b>Danger statement</b>	: None
危险申明	无
<b>Preventive measure</b>	: None
预防措施	无
<b>Response</b>	: None
事故响应	无
<b>Storage</b>	: None
安全储存	无

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<b>Disposal</b>	:	None
废弃处置		无
<b>health hazard</b>	:	None
健康危害		无
<b>Environment hazard</b>	:	None
环境危害		无
<b>Physical and chemical hazards</b>	:	None
物理和化学危害		无
<b>Other hazards</b>	:	The mixture does not contain PBT/vPvB substance 该混合物不含PBT/vPvB物质。
		The mixture does not contain endocrine disruptor 该混合物不含内分泌干扰物。

### 3 - Composition / Information on Ingredients

#### 第三章 成分/组成信息

Substance or Preparation: Preparation物质  混合物 

Component/Substance 成分/物质	% by wt	CAS Number CAS 号	EINECS Number EC 号	CLP Classification CLP 分类	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE) 特定浓度极限值, M 因子 急性毒性估计 (ATE)
HIPS 高抗冲聚苯乙烯	95-99	9003-53-6	500-008-9	Flam. Liq. 3 Skin Irrit. 2 Eye Irrit. 2 Acute Tox. 4	None 无
Additive 添加剂	1-5	N/A	N/A	None 无	None 无

Note: CAS Number is Chemical Abstract Service Registry Number.

注: CAS 编号表示化学文摘服务登记编号。

EINECS Number is EUROPEAN Inventory of Existing Commercial Chemical Substance.

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EC 编号表示欧洲现有商业化学品目录编号。

N/A = not applicable. N/A表示不适用。

**4 - First Aid Measures**  
**第四章 急救措施**

**Description of first aid measures**  
**急救措施的说明**

**If inhaled**  
**吸入**

: If breathed in, remove to fresh air immediately. Keep the respiratory tract smooth. Use oxygen if available. Get medical aid.

如果吸入，迅速脱离现场至空气新鲜处。保持呼吸道通畅。如有必要，给予输氧。就医。

**In case of skin contact**  
**皮肤接触**

: Rinse with clear water.

用清水冲洗。

**In case of eye contact**  
**眼睛接触**

: If contact with eyes, Rinse with plenty of water or normal saline.

如果接触到眼睛，用大量清水或生理盐水冲洗。

**If swallowed**  
**食入**

: Never give anything by mouth to an unconscious person. Rinse mouth with water. Get medical aid at once. 切勿给失去知觉者喂食任何东西。用水漱口。立刻就医。

**Most important symptoms and effects, both acute and delayed**  
**主要症状和影响，急性和迟发效应**

: No available data  
 无可用数据。

**Indication of any immediate medical attention and special treatment needed**  
**及时的医疗处理和所需的特殊处理的说明和指示**

: Transfer patients to a safe place. Consult a doctor. Present this chemical safety data sheet to the doctor on site.  
 将患者转移到安全的场所。咨询医生。出示此化学品安全技术说明书给到现场的医生看。



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**5 - Fire-Fighting Measures**  
**第五章 消防措施**

**Extinguishing media**

灭火介质

**Suitable extinguishing media**

灭火方法及灭火剂

: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

用水雾, 耐醇泡沫, 干粉或二氧化碳灭火。

**Special hazards arising from the substance or mixture**

源于此物质或混合物的特别的危害

: No available data.

无可用数据

**Combustion products**

燃烧产物

: No available data.

无可用数据

**Advice for firefighters**

给消防员的建议

: As soon as possible, remove the goods from fire to open place.

For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. For large fires, Standing on the windward, use water spray, fog, or alcohol-resistant foam. Use water spray to cool fire-exposed containers.

尽快将货物从火中移开。对于小火, 使用干粉, 二氧化碳, 水喷雾或耐酒精泡沫。对于大型火灾, 站在迎风, 使用水喷雾, 雾, 或耐酒精泡沫。用水喷雾冷却暴露在火中的容器。

**Further information**

进一步信息

: Wear suitable protective clothing, gloves, eye/face protection and self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. 在压力要求下穿戴合适的防护服、手套、眼/面保护和自备呼吸器, MSHA/NIOSH (认可或等效) 和全防护装置。

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**6 - Accidental Release Measures**  
**第六章 泄露应急处理**

<b>Personal precautions, protective equipment and emergency procedures</b> 作业人员防护措施、防护装备和应急处置程序	:	Avoid inhaling aerosol or gas. Ensure adequate ventilation. Evacuate people to a safe area. 避免吸入气雾或气体，保证充分的通风，将人员疏散到安全区域。
<b>Environmental precautions</b> 环境保护措施	:	No special environmental prevention requirements. 无特别的环境预防要求。
<b>Methods and materials for containment and cleaning up</b> 泄漏化学品的收容、清除方法及所使用的处置材料	:	Contain spillage, soak up residue with an absorbent such as dry quicksand and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations. 围堵溢出，用吸附材料如干砂等吸附，用防电真空清洁器或湿刷子将溢出物收集起来，并放置到容器中去，根据当地规定处理。
<b>Reference to other sections</b> 参考其他部分	:	For disposal see section 13. 丢弃处理请参阅第13章。

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**7 - Handling and Storage**  
**第七章 操作处置与储存**

- Precautions for safe handling**  
安全操作的注意事项
- Conditions for safe storage, including any incompatibilities**  
安全储存的条件,包括任何不兼容性
- Specific end use(s)**  
特定用途
- : No special operation opinions are required.  
无需特殊的操作意见。
  - : Store in a closed container when possible to prevent accidental dust generation and to prevent possible product contamination. Protect containers from physical damage. Keep dry and isolated from acids, caustics, halogenated compounds and oxidizers. Do not store near combustible materials. Guard against dust accumulation and dust becoming airborne. Keep container tightly closed in a cool, well-ventilated place. Keep the sample as a easy identification. Equip with relevant type and quantities of the extinguishment instruments.  
尽可能存放在密闭的容器中,以防止意外的灰尘产生并防止可能的产品污染。保护容器免受物理损坏。保持干燥,与酸,苛性碱,卤化物和氧化剂分离。不要存放在易燃材料附近。防止灰尘积聚和粉尘的空气传播。储存于阴凉,干燥,通风的库房。保持样品容易识别。配备相应品种和数量的消防器材。
  - : No available data.  
无可用数据

**8 - Exposure Controls / Personal Protection**  
**第八章 接触控制/个体防护**

- Allowable concentration**  
容许浓度
- Monitoring method**  
检测方法
- Components with workplace control parameters**  
暴露控制
- Personal protective equipment**  
个体防护装备
- : No available data.  
无可用数据
  - : No available data.  
无可用数据
  - : In accordance with good industrial and safety regulations. Wash hands before rest and at the end of work.  
按照良好工业和安全规范操作。休息前和工作结束时洗手。

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<b>Eye Protection</b> 眼睛防护	:	It is not necessary to use protective equipment under normal conditions. 正常条件下没有必要使用防护装备。
<b>Skin protection</b> 皮肤保护	:	It is not necessary to use protective equipment under normal conditions. 正常条件下没有必要使用防护装备。
<b>Body Protection</b> 身体保护	:	It is not necessary to use protective equipment under normal use conditions. 正常条件下没有必要使用防护装备。
<b>Respiratory protection</b> 呼吸系统防护	:	It is not necessary to use protective equipment under normal use conditions. 正常条件下没有必要使用防护装备。
<b>Other protection</b> 其他防护	:	None 无

**9 - Physical and Chemical Properties**  
第九章 理化特性

<b>Physical state:</b> 物理形态	:	Thread 线	<b>Odor</b> 气味	:	No available data. 无可用数据
<b>Color</b> 颜色	:	No available data. 无可用数据	<b>pH</b> pH 值	:	No available data. 无可用数据
<b>Melting Point</b> 熔点	:	No available data. 无可用数据	<b>Density</b> 密度	:	No available data. 无可用数据
<b>Boiling point or initial boiling point and boiling range (°C)</b> 沸点或初始沸点 沸腾范围(°C)	:	No available data. 无可用数据	<b>Flashing Point</b> 闪点	:	No available data. 无可用数据
<b>Explosion Upper Limits</b> 爆炸上限	:	No available data. 无可用数据	<b>Explosion Lower Limits</b> 爆炸下限	:	No available data. 无可用数据
<b>Kinematic viscosity (mm<sup>2</sup>/s):</b> 运动粘度	:	No available data. 无可用数据	<b>Particle characteristics:</b> 粒子特性	:	No available data. 无可用数据

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(mm<sup>2</sup>/s)**Ignition temperature**: No available data.  
无可用数据**Decomposition temperature**  
分解温度: No available data.  
无可用数据

着火点

**Solubility**  
溶解度: No available data.  
无可用数据

**10 - Stability and Reactivity**  
第十章 稳定性和反应活性

**Reactivity**  
反应活性: No available data.  
无可用数据。**Chemical stability**  
化学稳定性: Stable under recommended storage conditions.  
正常情况下稳定**Conditions to avoid**  
应避免的条件: Avoid fire, elevated temperatures. direct sunlight.  
避免火灾, 高温, 阳光直射。**Incompatible materials**  
禁配物: No available data.  
无可用数据。**Hazardous decomposition products**  
危险的分解产物: No available data.  
无可用数据。

**11 - Toxicological Information**  
第十一章 毒理学资料

**Information on toxicological effects****Acute Toxicity**  
急性毒性: No available data.  
无可用数据。**Skin corrosion/irritation**  
皮肤腐蚀/刺激性: No available data.  
无可用数据。**Serious eye damage/eye irritation**  
严重眼伤害/眼刺激: No available data.  
无可用数据。**Respiratory or skin Sensitization**  
呼吸系统或皮肤致敏作用: No available data.  
无可用数据。

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<b>Germ cell mutagenicity</b> 生殖细胞致变性	:	No available data. 无可用数据。
<b>Carcinogenicity</b> 致癌性	:	C: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. IARC: 该产品中不存在大于或等于0.1%的组分被IARC鉴定为可能的、可能的或证实的人类致癌物。
<b>Reproductive toxicity</b> 生殖毒性	:	No available data. 无可用数据
<b>Specific target organ toxicity-single exposure</b> 特定靶器官毒性-单次暴露	:	No available data. 无可用数据
<b>Specific target organ toxicity-repeated exposure</b> 特定靶器官毒性-长期暴露	:	No available data. 无可用数据
<b>Aspiration hazard</b> 吸入危害	:	No available data. 无可用数据
<b>Information on other hazards</b> <b>Endocrine disrupting properties</b> 关于其他危险的资料 内分泌干扰物	:	The mixture does not contain endocrine disruptor 该混合物不含内分泌干扰物。
<b>Additional information</b> 其他信息	:	No available data. 无可用数据

**12 - Ecological Information**  
第十二章 生态学资料

<b>Toxicity</b> 生态毒性	:	No available data. 无可用数据
<b>Persistence and degradability</b> 持久性和降解性	:	No available data. 无可用数据

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<b>Bioaccumulative potential</b> 潜在的生物累积性	:	No available data. 无可用数据
<b>Mobility in soil</b> 土壤中的迁移性	:	No available data. 无可用数据
<b>Results of PBT and vPvB assessment</b> PBT 和 vPvB 的结果评价	:	No available data. 无可用数据
<b>Endocrine disrupting properties</b> 内分泌干扰物	:	The mixture does not contain endocrine disruptor 这种混合物不含内分泌干扰物。
<b>Other adverse effects</b> 其他有害影响	:	No available data. 无可用数据

**13 - Disposal Considerations**  
**第十三章 废弃处置**

**Waste disposal methods**

## 废弃处置方法

<b>Product</b> 产品性质	:	This product is not regarded as hazardous waste, as defined by Regulation (EC) No.1272/2008. 根据法规(EC)第1272/2008号, 该产品不被视为危险废物。
<b>Waste disposal methods</b> 废弃处置方法	:	Refer to relevant national and local regulations before disposal. 回收利用或参阅国家和地方有关法规。
<b>Contaminated packaging</b> 受污染的容器和包装	:	Use and recycle after cleaning. 清洗后使用回收。
<b>Attention abandoned:</b> 废弃注意事项	:	Before disposal, refer to relevant national and local laws and regulations. 废弃处置前应参阅国家和地方有关法规。

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**14 - Transport Information**  
**第十四章 运输信息**

**Transport Attentions:**

**运输注意事项:**

Please select the appropriate transportation method and corresponding transportation and storage conditions according to the nature of the chemical. The product can be transported by air, land or sea. The means of transportation should be equipped with corresponding types and quantities of fire extinguishing materials and leakage emergency treatment equipment. Do not mix with antioxidants, acids, alkali metals and amines. Prevent direct sunlight, rain and high temperature transportation.

Please refer to section 7-HANDLING AND STORAGE also, and requirements of the IATA/ICAO/PG .

请根据化学品的性质选择适当的运输方式和相应的运输和储存条件。该产品可以空运，陆运或海运方式运输。运输工具应配备相应品种和数量的灭火材料和泄漏应急处理设备。禁止与抗氧化剂，酸，碱金属和胺混合使用。防止阳光直射，雨淋和高温运输。具体请参照ADR-RID/PG，IMO/IMDG/PG，IATA/ICAO/PG 以及第七部分的要求。

**Maritime transport IMDG**

**国际海运危险货物规则**

IMDG Code : Not hazardous goods  
危险类别 : 非危害品

UN-Number : /  
UN 编号

Packing group : /  
包装组别

Proper shipping name : /  
运输名称

**DOT regulations**

**运输部条例**

Hazard class : Not hazardous goods  
危险类别 : 非危害品

UN-Number : /  
UN 编号

Packing group : /  
包装组别

Proper shipping name : /  
运输名称

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**Land transport ADR/RID(cross-border)****陆路运输条例**

Hazard class : Not hazardous goods  
危险类别 : 非危害品  
UN-Number : /  
UN 编号 : /  
Packing group : /  
包装组别 : /  
Proper shipping name : /  
运输名称 : /

**Air transport ICAO-TI and IATA-DGR****航空运输 国际民航组织和国际航空运输协会危险货物规则**

ICAO-TI-II class : Not hazardous goods  
危害等级 : 非危害品  
UN/ID Number : /  
联合国编号 : /  
Packing group : /  
运输包装 : /  
Proper shipping name : /  
合适运输名称 : /

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code****防止船舶污染国际公约73/78附件II和散装危险化学品船舶载运的建设和设备的国际代码**

Not available data

无可用数据

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**15 - Regulatory Information****第十五章 法规信息****Safety, health and environmental regulations/legislation specific for the substance or mixture**

针对物质或混合物的安全、健康和环境的特别的法规/法律

German regulations concerning the classification of hazard for water(WGK)

: Not listed  
不列入

德国关于水危害分类的规定 (WGK)

Substance of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)

: Not listed  
不列入

REACH法规(EC) No. 1907/2006的高度关注物

The conditions of restrictions according to Regulation (EC) No. 1907/2006 (REACH) Article 67 and Annex XVII for the manufacturing, placing on the market and use must be observed

: Not listed  
不列入

法规 (EC) 1907/2006号 (REACH) 第67条和附件XVII对制造、投放市场和使用上必须遵守的限制条件

Regulation (EC) No. 1907/2006 (REACH) Annex XVII( requiring Authorisation for use)

: Not listed  
不列入

法规 (EC) 1907/2006号 (REACH) 附件XVII(需要授权才能使用物质)

Regulation (EC) No. 1907/2006 (REACH)-Pre-registered substance.

: Not listed  
不列入

法规 (EC) 1907/2006号 (REACH) 预注册物质

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer

: Not listed  
不列入

法规 (EC) 1005/2009号关于破坏臭氧层物质

Regulation (EC) No 649/2012 concerning the export and import of dangerous chemicals, Annex I

: Not listed  
不列入

法规 (EC) 649/2012号关于危险化学品的出口、进口, 附录I

ELINECS(European List of Notified Chemical Substances)  
ELINECS (欧洲化学品通报清单): Not listed  
不列入

Particular provisions

: No available data.  
无可利用数据

特别规定

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**Chemical Safety Assessment**

化学品安全评估

No available data.

无可用数据

**16 - Other Information****第十六章 其他信息**

ACGIH	:	American Conference of Governmental Industrial 美国政府工业学家会议
ADR	:	European Agreement concerning the International Carriage of Dangerous Goods by Road 欧洲关于危险国际货物公路运输的协议
CAS	:	Chemical Abstracts Service 化学文摘社
CLP	:	Classification Packaging and Labelling 分类、包装、标签
EC	:	European Commission 欧洲委员会
ECHA	:	European Chemicals Agency 欧洲化学品中心
EINECS	:	The European Inventory of Existing Commercial Chemical Substances 欧洲现有商业化学物质的目录
GHS	:	Globally Harmonised System of Classification and Labelling of Chemicals 全球化学品分类和标签制度
IARC	:	International Agency for Research on Cancer 国际癌症研究机构
IATA	:	International Air Transport Association 国际航空运输协会
IBC Code	:	International code for the construction and equipment of ships carrying dangerous chemical in bulk 散装危险化学品船舶载运的建设和设备的国际代码
ICAO	:	International Civil Aviation Organization 国际民航组织
IMDG	:	International Maritime Dangerous Goods 国际海运危险货物规则
IC50	:	Inhibitory Concentration fifty 半数抑制浓度

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LC50	:	Lethal Concentration fifty 半数致死浓度
LD50	:	Lethal Dose fifty per cent. 半数致死剂量
MARPOL	:	International Convention for the Prevention of Pollution From Ships 防止船舶造成污染国际公约
REACH	:	Registration Evaluation And Authorisation Of Chemicals 化学品的注册, 评估和授权
RID	:	Regulations Relating to International Carriage of Dangerous Goods by Rail 国际危险货物铁路运输规则
RTECS	:	Registry of Toxic Effects of Chemical Substances 化学品毒性危害注册
STEL	:	Short term exposure limit 短时间暴露限值
TWA	:	Time-Weighted Average 时间加权平均值
OSHA	:	Occupational Safety and Health Administration 职业安全与健康管理局
NIOSH	:	National Institute for Occupational Safety and Health 国家职业安全与健康研究所
TLV-TWA	:	Threshold Limit Value-Time Weighted Average 容许最高浓度-时间加权平均值
TLV-STEL	:	Threshold Limit Value-Short Term Exposure Limit 容许最高浓度-短时间暴露限值
PEL	:	Permissible Exposure Limit 容许暴露限值

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填表时间: 2024年04月16日

Data Audit Units: EMTEK(GUANGZHOU) CO.,LTD.

数据审核单位: 广州信测标准技术服务有限公司

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\*\*\*The End of MSDS\*\*\*  
\*\*\* MSDS 结束\*\*\*

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声 明  
Statement

- 1.本检测报告首页所列信息中除样品来源、接样日期、检测日期、检测结果和检测结论外，均由委托方提供，委托方对样品的代表性和资料的真实性负责，本实验室不承担任何相关责任。  
The information as listed on the first page of this test report was all provided by the client except the sample from, date received, test period, test results and test conclusion. The client shall be responsible for the representativeness of sample and authenticity of materials, for which EMTEK shall bear no responsibilities.
- 2.本检测报告以实测值进行符合性判定，未考虑不确定度所带来的风险，特别约定、标准或规范中有明确规定的除外。此种判定方式所带来的风险由客户自行承担，本实验室不承担任何相关责任。  
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The test items are marked with special symbols in the report is out of the scope of CMA accreditation. The test result only used for client's requirement, scientific researching ,teaching or internal quality control.
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In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. 本公司接受样品进行测试的前提是，该测试报告不能作为针对本公司法律行动的依据。  
Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
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The Company will not be liable for or accept responsibility for any loss or damage how ever arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. 若需要在法院审理程序或者仲裁过程中使用测试报告，客户必须在提交测试样品前将该意图告知本公司。  
Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. 该测试报告的支持数据和信息本公司保存 10 年。个别评审机构有特别要求的，检测数据和报告的保存期可依情况变动。一旦超过上述提交的保存期限，数据和信息将被处理掉。任何情况下，本公司不必提供任何被处理的过期数据或信息。即使本公司事先被告知可能会发生相关的损害，本公司在任何情况下也不必承担任何损害，包括（但不限于）补偿性赔偿、利润损失、数据遗失、或任何形式的特殊损害、附带损害、间接损害、从属损害或任何违反约定、违反承诺、侵权（包括疏忽）、产品责任或其他原因的惩罚性损害。  
Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of ten years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

