

**SAFETY DATA SHEETS (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.: EGZ2312190098C00106RM1

Date: Dec. 28, 2023

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**修订日期** : 2023年12月28日

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

Prepared by:



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Reviewed by:



Sun Wei, Ethan  
Technical supervisor

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 PA6-GF  
产品名称 : 3D打印线材  
UFI : /  
唯一配方标识符  
model : N08-xx (xx stands for any suffix)  
型号 : N08-xx (xx代表任意后缀)  
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**

## 有关确定的物质或混合物的用途和建议不适合的用途

Relevant identified uses : Please consult the manufacturer or supplier.

有关已确定用途 : 请咨询生产商或者供应商

Restricted use : /

限制使用

## 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,  
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深圳市前海深港合作区前湾一路1号A栋201室  
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Fax/传真 : /  
Post code/邮编 : /  
E-mail address : Nina.Yang@bambulab.com  
电子邮件地址  
Emergency phone : /  
紧急通信电话

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**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
<b>Disposal</b>	: None
废弃处置	无
<b>health hazard</b>	: None
健康危害	无

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<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
其他危害		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**

Component/Substance 成分/物质	% by wt 占比	CAS Number CAS 号	EINECS Number EC 号	hazard classification 危害分类	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE) 极限浓度, M 因子, 急性毒性评估(ATE)
Nylon 6 尼龙6	80-90%	25038-54-4	607-506-6	None 无	None 无
Glass fibre 玻璃纤维	10-20%	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.

EC 编号表示欧洲现有商业化学品目录编号。

N/A denote not applicable.

N/A表示不适用。



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**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 you feel respiratory irritation, remove to fresh air immediately. Keep the respiratory tract smooth. Use oxygen if available. Get medical aid.

如果感到呼吸道刺激，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**

: Re-wash with plenty of water. If you feel unwell, seek medical attention immediately.

用大量清水冲洗。如感不适，立即就医。

**In case of eye contact****眼睛接触**

: Flush the eyes with plenty of water or saline water at least 15 minutes. Get medical aid at once.

用大量清水或生理盐水冲洗 15 分钟以上。立刻就医。

**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

: CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
 CO<sub>2</sub>、灭火粉或喷水。用喷水或抗酒精泡沫扑灭更大的火灾。

**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

**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. Do NOT use straight streams of water.

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，使用水喷水，雾，或耐酒精泡沫。用水喷雾冷却暴露在火中的容器。不要使用直流水。

**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. In pressure-demand wear appropriate protective clothing, gloves, eye/face protection and self-contained breathing apparatus, 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**

- Personal precautions, protective equipment and emergency procedures** : Avoid inhaling aerosol or gas. Ensure adequate ventilation. Evacuate people to a safe area.  
 作业人员防护措施、防护装备和应急处置程序 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。
- Environmental precautions** : No special environmental prevention requirements.  
 环境保护措施 无特别的环境预防要求。
- Methods and materials for containment and cleaning up** : Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.  
 泄漏化学品的收容、清除方法及所使用的处置材料 捡起并安排处置，不要产生灰尘。清扫并铲起。放在合适的密闭容器中进行处置。
- Reference to other sections** : For disposal see section 13.  
 参考其他部分 丢弃处理请参阅第13章。

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

- Precautions for safe handling** : No special operation opinions are required.  
 安全操作的注意事项 无需特殊的操作意见。
- Conditions for safe storage, including any incompatibilities** : Store in a closed container when possible to prevent accidental aerosols 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.  
 安全储存的条件,包括任何不兼容性 尽可能存放在密闭的容器中，以防止意外的气雾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。

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**8 - Exposure Controls / Personal Protection**  
**第八章 接触控制/个人防护**

<b>Allowable concentration</b> 容许浓度	:	No available data. 无可用数据
<b>Monitoring method</b> 检测方法	:	No available data. 无可用数据
<b>Components with workplace control parameters</b> 暴露控制	:	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。
<b>Personal protective equipment</b> 个人防护装备		
<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

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

<b>Physical state:</b> 物理形态	:	Line 线条	<b>Odor</b> 气味	:	No available data. 无可可用数据
<b>Color</b> 颜色	:	Black 黑色	<b>pH</b> pH 值	:	No available data. 无可可用数据
<b>Melting Point</b> 熔点	:	No available data. 无可可用数据	<b>Density</b> 密度	:	No available data. 无可可用数据
<b>Boiling point</b> 沸点	:	No available data. 无可可用数据	<b>Flashing Point</b> 闪点	:	No available data. 无可可用数据
<b>Explosion Upper Limits</b> 爆炸上限	:	No available data. 无可可用数据	<b>Explosion Lower Limits</b> 爆炸下限	:	No available data. 无可可用数据
<b>Bulk density</b> 容重	:	No available data. 无可可用数据	<b>Partition coefficient (LogPow)</b> 分配系数 (LogPow)	:	No available data. 无可可用数据
<b>Viscosity</b> 黏度	:	No available data. 无可可用数据	<b>Evaporation rate</b> 蒸发速度	:	No available data. 无可可用数据
<b>Ignition temperature</b> 着火点	:	No available data. 无可可用数据	<b>Decomposition temperature</b> 分解温度	:	No available data. 无可可用数据
<b>Solubility</b> 溶解度	:	No available data. 无可可用数据			

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

<b>Reactivity</b> 反应活性	:	No available data. 无可可用数据
<b>Chemical stability</b> 化学稳定性	:	Stable under recommended storage conditions. 正常情况下稳定
<b>Conditions to avoid</b> 应避免的条件	:	Avoid fire, elevated temperatures. direct sunlight. 避免火灾, 高温, 阳光直射。
<b>Incompatible materials</b> 禁配物	:	Strong oxidizing agents, strong acid, strong base. 强氧化剂、强酸、强碱。

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**Hazardous decomposition products** : No available data.  
 危险的分解产物 : 无可用数据

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

**Acute Toxicity** : No available data.  
 急性毒性 无可用数据。

**Skin corrosion/irritation** : No available data.  
 皮肤腐蚀/刺激性 无可用数据。

**Serious eye damage/eye irritation** : No available data.  
 严重眼伤害/眼刺激 无可用数据。

**Respiratory or skin Sensitization** : No available data.  
 呼吸系统或皮肤致敏作用 无可用数据。

**Germ cell mutagenicity** : No available data.  
 生殖细胞致变性 无可用数据。

**Carcinogenicity** : IARC: The product is not identified as probable, possible or confirmed human carcinogen by IARC.  
 ACGIH: The product is not identified as probable, possible or confirmed human carcinogen by ACGIH.  
 NTP: The product is not identified as probable, possible or confirmed human carcinogen by NTP.  
 OSHA: The product is not identified as probable, possible or confirmed human carcinogen by IARC.  
 IARC: 该产品未被 IARC 确定为可能的、可能的或确认的人类致癌物。  
 ACGIH: 该产品未被 ACGIH 确定为可能的、可能的或确认的人类致癌物。  
 NTP: 该产品未被 NTP 确定为可能的、可能的或确认的人类致癌物。  
 OSHA: 该产品未被 IARC 确定为可能的、可能的或确认的人类致癌物。

**Reproductive toxicity** : No available data.  
 生殖毒性 无可用数据

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**Specific target organ toxicity-single exposure** : No available data.  
 无可用数据

特定靶器官毒性-单次暴露

**Specific target organ toxicity-repeated exposure** : No available data.  
 无可用数据

特定靶器官毒性-长期暴露

**Aspiration hazard** : No available data.  
 吸入危害

**Information on other hazards** : The mixture does not contain endocrine disruptor  
 这种混合物不含内分泌干扰物。  
**Endocrine disrupting properties**  
 关于其他危险的资料  
 内分泌干扰物

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

**Toxicity** : No available data.  
 生态毒性 无可用数据。

**Persistence and degradability** : No available data.  
 持久性和降解性 无可用数据。

**Bioaccumulative potential** : No available data.  
 潜在的生物累积性 无可用数据

**Mobility in soil** : No available data.  
 土壤中的迁移性 无可用数据

**Results of PBT and vPvB assessment** : PBT/vPvB assessment not available as chemical safety assessment not required/not conducted  
 PBT 和 vPvB 的结果评价 由于化学品安全评估未要求/未开展, 因此 PBT/vPvB 评估不可用

**Endocrine disrupting properties** : The mixture does not contain endocrine disruptor  
 这种混合物不含内分泌干扰物。  
 内分泌干扰物

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

**Waste disposal methods****废弃处置方法**

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

**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. When staying halfway, please stay away from fire, heat and high temperature. Road transportation should follow the prescribed route, do not stop in residential areas and densely populated areas.

Please refer to section 7-HANDING 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。中途停留时, 请远离火, 热和高温。公路运输时要按规定路线行驶, 勿在居民区和人口稠密区停留。

具体请参照ADR-RID/PG, IMO/IMDG/PG, IATA/ICAO/PG 以及第七部分的要求。



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**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 : /

**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 : /

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Proper shipping name : /  
 合适运输名称

marine pollutant : Non : None  
 海洋污染物 : 无

**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 applicable.  
 不适用

**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  
 德国关于水危害分类的规定 (WGK) : 不列入

Substance of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH) : Not listed  
 REACH法规(EC) No. 1907/2006的高度关注物 : 不列入

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  
 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 : 不列入

Regulation (EC) No. 1907/2006 (REACH) Annex XVII( requiring Authoursation for use) : Not listed  
 法规 (EC) 1907/2006号 (REACH) 附件XVII(需要授权才能使用物质) : 不列入

Regulation (EC) No. 1907/2006 (REACH)-Pre-registered substance. : Not listed  
 法规 (EC) 1907/2006号 (REACH) 预注册物质 : 不列入

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer : Not listed  
 法规 (EC) 1005/2009号关于破坏臭氧层物质 : 不列入

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

法规 (EC) 649/2012号关于危险化学品的出口、进口, 附录I : Not listed  
不列入

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

Particular provisions : No available data.  
特别规定 : 无可用数据

**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

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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
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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Date: Dec. 28, 2023

填表时间: 2023年12月28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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**Declaration: Report EGZ2312190098C00106R was repealed and replaced by  
Report EGZ2312190098C00106RM1.**

**声明: 报告 EGZ2312190098C00106R 作废, 由报告 EGZ2312190098C00106RM1 所取代。**

\*\*\*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。  
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4. 如果本公司确定报告被不当地使用，本公司保留撤回报告的权利，并有权要求其它适当的额外赔偿。  
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。  
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