

**MATERIAL SAFETY DATA SHEETS (MSDS)**  
**化学品安全技术说明书 (MSDS)**  
**Bambu PLA Basic**

No.: EGZ2302280031C00102RM1

Date: Mar. 27, 2023

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**Prepared for** : Shenzhen Tuozhu Technology Co., Ltd  
**客户** : 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

**Prepared by** : EMTEK(GUANGZHOU) CO.,LTD.  
**制作者** : 广州信测标准技术服务有限公司

**Address** : 1/F&4/F, BUILDING A, No.38, NANXIANG 3RD ROAD, SCIENTECH PARK, GUANGZHOU, GUANGDONG, CHINA  
**地址** : 广州市黄埔区南翔三路38号A栋101房、401房、402房、403房、404房、405房、406房

**Tel** : +86-020-82553111  
**电话**

**Fax** : +86-020-82553162  
**传真**

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

Prepared by:

Zhou Fang, Nack  
Assistant engineer

Reviewed by:

Sun Wei, Ethan  
Technical supervisor

Approved by:



Yu Chunhua, Jay Yu  
Authorized signatory  
Mar. 27, 2023

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According to Regulation (EC) No 1907/2006. Annex II

根据法规(EC) No 1907/2006 附件 II

Amended by COMMISSION REGULATION (EU) 2020/878,

根据欧盟委员会法规(EU) 2020/878 编写

According to REGULATION (EC) No 1272/2008

根据 REGULATION (EC) No 1272/2008 分类

## 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

Unique Formula Identifier(UFI) : N/A

唯一配方标识符

Product name : Bambu PLA Basic

产品名称

Country of Origin : China

原产国

中国

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 wire rod

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

地址

Zone, Shenzhen

深圳市前海深港合作区前湾一路1号A栋201室

Post Code : /

邮政编码

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Telephone/电话 : 13603003545  
E-mail address : lvhong.yu@bambulab.com  
电子邮件地址  
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), The substance or mixture is not classified as hazardous.

根据(EC) No. 1272/2008(CLP)标准, 该物质或混合物不属于危险物质。

Physical hazard : Not classified as a physical hazard class.  
物理危害 未被划分为物理危害等级  
Health hazard : Not classified as a health hazard class.  
健康危害 未被划分为健康危害等级  
Environment hazard : Not classified as a environment hazard class.  
环境危害 未被划分为环境危害等级

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

Hazard pictograms : Not applicable.  
象形图 不适用。  
Warning words : Not applicable.  
警示词 不适用。  
Danger statement : Not applicable.  
危险申明 不适用。  
Preventive measure : Not applicable.  
预防措施 不适用。

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<b>Response</b>	:	Not applicable.
事故响应		不适用。
<b>Storage</b>	:	Not applicable.
安全储存		不适用。
<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。
其他危害		

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## 3 - Composition / Information on Ingredients

## 第三章 成分/组成信息

Substance or Preparation: Preparation物质  混合物 

Serial Number 序号	Component/Substance 成分/物质	% by wt	CAS Number CAS 号	EINECS Number EC 号	CLP Classification	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)
1	polylactic acid 聚乳酸	99	26023-30-3	N/A	/	/
	Additive 添加剂	0-1	N/A	N/A		

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。

## 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

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

如感不适, 用大量清水冲洗, 并立即就医。

## In case of eye contact

## 眼睛接触

- : If you feel eye irritation, flush the eyes with plenty of water or saline water at least 15 minutes. Get medical aid at once.

如果感觉到眼睛刺激, 用大量清水或生理盐水冲洗 15 分钟以上。立刻就医。

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<b>If swallowed</b> 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。
<b>Most important symptoms and effects, both acute and delayed</b> 主要症状和影响, 急性和迟发效应	:	No available data 无可用数据。
<b>Indication of any immediate medical attention and special treatment needed</b> 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。

**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

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

源于此物质或混合物的特别的危害

**Combustion products**

燃烧产物

**Advice for firefighters**

给消防员的建议

**Further information**

进一步信息

- : Dry powder, carbon dioxide, sand, anti-soluble foam  
干粉, 二氧化碳, 砂土, 抗溶性泡沫
- : No available data.  
无可用数据
- : No available data.  
无可用数据
- : 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, 使用水喷雾, 雾, 或耐酒精泡沫。用水喷雾冷却暴露在火中的容器。不要使用直接的水流。
- : 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

- 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	: Thread 线	<b>Odor</b> 气味	: No available data. 无可数据
<b>Color</b> 颜色	: Blue 蓝色	<b>pH</b> pH 值	: No available data. 无可数据
<b>Melting Point</b> 熔点	: 160°C	<b>Density</b> 密度	: 1.24 g/cm <sup>3</sup>
<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. 无可数据	<b>Flashing Point</b> 闪点	: No available data. 无可数据
<b>Explosion Upper Limits</b> 爆炸上限	: No available data. 无可数据	<b>Explosion Lower Limits</b> 爆炸下限	: No available data. 无可数据
<b>Kinematic viscosity (mm<sup>2</sup>/s):</b> 运动粘度 (mm <sup>2</sup> /s)	: No available data. 无可数据	<b>Particle characteristics:</b> 粒子特性	: No available data. 无可数据
<b>Ignition temperature</b> 着火点	: No available data. 无可数据	<b>Decomposition temperature</b> 分解温度	: No available data. 无可数据
<b>Solubility</b> 溶解度	: No available data. 无可数据		

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## 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	: No available data. 无可用数据。
<b>Hazardous decomposition products</b> 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

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

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<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> 关于其他危险的资料	: The mixture does not contain endocrine disruptor 这种混合物不含内分泌干扰物。
<b>Endocrine disrupting properties</b> 内分泌干扰物	
<b>Other information</b> 其他资料	: 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。
<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	: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted 由于化学品安全评估未要求/未开展, 因此 PBT/vPvB 评估不可用
<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> 其他不良影响	: No available data. 无可用数据

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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

## 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。

## Waste disposal methods

## 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。

## Contaminated packaging

## 受污染的容器和包装

: Use and recycle after cleaning.

清洗后使用回收。

## Attention abandoned:

## 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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## MATERIAL SAFETY DATA SHEETS (MSDS)

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## 14 - Transport Information

## 第十四章 运输信息

## Transport Attentions:

## 运输注意事项:

In the case of land, air and ocean shipping, avoid exposure to fire, water, prevent damp and insolation. The products restrict the use of own steel tanker shipment when railway transport, submit to relevant departments for approval. The transport vehicles should be equipped with the appropriate variety and quantity of fire control equipment and emergency equipment for leakage. In summer, best transport in morning or evening. Transport tank should have grounding chain, the inner of tank should have baffle hole plate to reduce static electricity. Ban mixed operation with antioxidants, acid, alkali metal and amine. Prevent insolate, rain and heat in transit. Keep away from fire, heat and high temperature when stopover. Exhaust pipes of transport vehicle must be equipped with fire retardant equipment. Ban load and unload with mechanical equipments and tools that easy to produce the spark. According to prescribed routes when road transport. Do not stay in residential area and densely populated area. Ban humping when railway transport. Ban bulk transport use wooden boats, concrete boats.

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

在陆运、空运和海运的情况下，应避免暴露于火、水，防止受潮和日晒。本品铁路运输时限使用企业自备罐车装运，装运前需报有关部门批准。运输时运输车辆应配备相应品种和数量的消防器材及泄漏应急处理设备。夏季最好早晚运输。运输时所用的槽（罐）车应有接地链，槽内可设孔隔板以减少震荡产生静电。严禁与氧化剂、酸类、碱金属、胺类、食用化学品等混装混运。运输途中应防曝晒、雨淋，防高温。中途停留时应远离火种、热源、高温区。装运该物品的车辆排气管必须配备阻火装置，禁止使用易产生火花的机械设备和工具装卸。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。

## 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	:	Not available data
UN 编号	:	无可数据
Packing group	:	Not available data
包装组别	:	无可数据
Proper shipping name	:	Not available data
运输名称	:	无可数据

## DOT regulations

## 运输部条例

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

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UN-Number : Not available data  
 UN 编号 : 无可用数据  
 Packing group : Not available data  
 包装组别 : 无可用数据  
 Proper shipping name : Not available data  
 运输名称 : 无可用数据

**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 : Not available data  
 UN 编号 : 无可用数据  
 Packing group : Not available data  
 包装组别 : 无可用数据  
 Proper shipping name : Not available data  
 运输名称 : 无可用数据

**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 : Not available data  
 联合国编号 : 无可用数据  
 Packing group : Not available data  
 运输包装 : 无可用数据  
 Proper shipping name : Not available data  
 合适运输名称 : 无可用数据

**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.  
无可用数据

特别规定

**Chemical Safety Assessment**

化学品安全评估

No available data.

无可用数据

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**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
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

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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

Date: Mar. 27, 2023

填表时间: 2023年03月27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 EGZ2302280031C00102R was repealed and replaced by Report EGZ2302280031C00102RM1.**

**声明: 报告EGZ2302280031C00102R作废, 由报告EGZ2302280031C00102RM1所取代。**

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**Sample Photo:**  
样品照片:



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

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**声 明**  
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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.
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