

According to Requiation (EC) No 1907/2006. Annex, Amended by COMMISSION REGULATION (EU) 2020/878. According to REGUL A TION (EC) No 1272/2008

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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 PVA 产品名称 3D打印线材

model

唯一配方标识符

S04-xx (xx stands for any suffix)

型号 S04-xx (xx代表任意后缀)

Refer to section 3 CAS No.

见第三章

Refer to section 3 EC No.

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 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

Shenzhen Tuozhu Technology Co., Ltd. Manufacturer

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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

Hazard pictograms : No symbol. 无危险图标 象形图

Warning words : No signal word

无警示词 警示词

Danger statement : None 无

危险申明

Preventive measure : None

预防措施 无

Response : None

事故响应 无

Storage : None

安全储存 无

Disposal : None

废弃处置 无

health hazard : None

健康危害 无





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Environment hazard : None

环境危害

无

Physical and

None

chemical hazards 物理和化学危害

无

Other hazards

: 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/Subs tance 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)
PVA 聚乙烯醇	≥95%	9002-89-5	618-340-9	None 无	None 无
additive 添加剂	<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.

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

In case of skin contact 皮肤接触

In case of eye contact 眼睛接触

If swallowed 食入

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

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。

: 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。

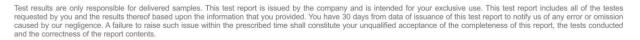
Flush the eyes with plenty of water or saline water at least 15 minutes. Get medical aid at once.

用大量清水或生理盐水冲洗 15 分钟以上。立刻就医。

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。

No available data 无可用数据。

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

Special hazards arising from the : substance or mixture 源于此物质或混合物的特别的危害 Advice for firefighters : 给消防员的建议

Further information 进一步信息 : CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

CO₂、灭火粉或喷水。用喷水或抗酒精泡沫扑灭更大的火灾。

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。

: 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

作业人员防护措施、防护装备和应 急处置程序

Environmental precautions

环境保护措施

Methods and materials for containment and cleaning up 泄漏化学品的收容、清除方法及所使用的处置材料

Reference to other sections

参考其他部分

: 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。

: No special environmental prevention requirements.

无特别的环境预防要求。

: Pick up and arrange disposal without creating dust. Sweep up and

shovel. Keep in suitable, closed containers for disposal.

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。

: For disposal see section 13.

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 handing 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

: 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 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.

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/个体防护

Allowable

concentration 容许浓度

No available data.

无可用数据

Monitoring method

检测方法

No available data.

无可用数据

Components with workplace control

parameters 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。

Personal protective equipment

个体防护装备

Eve Protection 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。

Skin protection

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。

Body Protection

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。

Respiratory protection

呼吸系统防护

It is not necessary to use protective equipment under normal use

正常条件下没有必要使用防护装备。

Other protection

其他防护

None 无





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9 - Physical and Chemical Properties

第九章 理化特性

Physical state:LineOdorNo available data.物理形态线条气味无可用数据

Color Yellow **pH** No available data.

颜色 - 黄色 **pH 值** · 无可用数据

Melting Point No available data. Density No available data.

Boiling point No available data. Flashing Point No available data.

Explosion

No available data.

No available data.

 Bulk density
 No available data.

 容重
 No available data.

 无可用数据
 T可用数据

ViscosityNo available data.Evaporation rateNo available data.黏度无可用数据蒸发速度无可用数据

IgnitionNo available data.

No available data.

着火点 分解温度 分解温度 Solubility 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

溶解度

Chemical stability

化学稳定性

Conditions to avoid

应避免的条件

Incompatible materials

禁配物

No available data.

无可用数据

Stable under recommended storage conditions.

正常情况下稳定

Avoid fire, elevated temperatures. direct sunlight.

避免火灾,高温,阳光直射。

Strong oxidizing agents, strong acid, strong base.

强氧化剂、强酸、强碱。





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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

Acute Toxicity 急性毒性

Skin

corrosion/irritation 皮肤腐蚀/刺激性

Serious eye damage/eye irritation 严重眼伤害/眼刺激

Respiratory or skin Sensitization 呼吸系统或皮肤致敏作

用

Germ cell mutagenicity 生殖细胞致变性 Carcinogenicity

致癌性

: No available data.

无可用数据。

No available data.

无可用数据。

: No available data.

无可用数据。

No available data.

无可用数据。

: No available data.

无可用数据。

: 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 生殖毒性 : No available data.

无可用数据





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Specific target organ : No available data.

toxicity-single exposure

特定靶器官毒性-单次

Specific target organ : No available data. toxicity-repeated

exposure

特定靶器官毒性-长期

Aspiration hazard

吸入危害

Information on other hazards **Endocrine**

disrupting properties

关于其他危险的资料

内分泌干扰物

无可用数据

无可用数据

No available data.

无可用数据。

: The mixture does not contain endocrine disruptor

这种混合物不含内分泌干扰物。

12 - Ecological Information 第十二章 生态学资料

Toxicity No available data.

牛态毒件 无可用数据。

Persistence and : No available data. degradability

持久性和降解性

Bioaccumulative potential

潜在的生物累积性

Mobility in soil

土壤中的迁移性

Results of PBT and vPvB

assessment

PBT 和 vPvB 的结果评价

Endocrine disrupting

properties

内分泌干扰物

无可用数据。

: No available data.

无可用数据

: No available data.

无可用数据

: 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

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





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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

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

Contaminated packaging

受污染的容器和包装

Attention abandoned:

废弃注意事项

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。

Use and recycle after cleaning.

清洗后使用回收。

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。

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

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

不列入

Not listed

Not listed

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 Not listed

for water(WGK)

德国关于水危害分类的规定(WGK)

Substance of Very High Concern (SVHC) according to Not listed

Regulation (EC) No. 1907/2006 (REACH) 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 Not listed observed 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

XVII(requiring Authoursation for use)

Regulation (EC) No. 1907/2006 (REACH) Annex

法规(EC) 1907/2006号(REACH)附件XVII(需要授权才 不列入

能使用物质)

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

substance.

不列入 法规(EC) 1907/2006号(REACH)预注册物质

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

Not listed the ozone laver 不列入

法规(EC)1005/2009号关于破坏臭氧层物质



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Not listed

无可用数据

No available data.

不列入

Regulation (EC) No 649/2012 concerning the export and

import of dangerous chemicals, Annex I Not listed 法规 (EC) 649/2012号关于危险化学品的出口、进口,附 不列入

表I

ELINECS(European List of Notified Chemical Substances)

ELINECS (欧洲化学品通报清单)

Particular provisions

特别规定

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





According to Requiation (EC) No 1907/2006. Annex, Amended by COMMISSION REGULATION (EU) 2020/878. According to REGUL A TION (EC) No 1272/2008

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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- : Threshold Limit Value-Short Term Exposure Limit

STEL 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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According to Requiation (EC) No 1907/2006. Annex, Amended by COMMISSION REGULATION (EU) 2020/878. According to REGUL A TION (EC) No 1272/2008

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