

	<b>SAFETY DATA SHEET</b>	Page : 1 / 11
		Revision nr : 1.0
		Issue date : 19/04/2022
	<b>ANYCUBIC PLA filament</b>	Supersedes :

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product form : Substance  
Trade name : ANYCUBIC  
PLA filament  
Chemical name : 1,4-Dioxane-2,5-dione, 3,6-dimethyl-, (3R,6R)-, polymer with rel-(3R,6S)-3,6-dimethyl-1,4-dioxane-2,5-dione and (3S,6S)-3,6-dimethyl-1,4-dioxane-2,5-dione  
EC-No. : 618-575-7  
CAS-No. : 9051-89-2

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

Intended for general public  
Main use category : Consumer use  
Use of the substance/mixture : 3D printer filaments

#### 1.2.2. Uses advised against

No additional information available

### 1.3. Details of the supplier of the safety data sheet

Shenzhen Anycubic Technology Co.,Ltd  
12-13th floor, Building #3B, Vanke Times Square, No.85 Longcheng Avenue,Longcheng Street,Longgang District  
518000 Shenzhen, Guangdong Province - China  
T 17688757950  
[weiwulin@anycubic.com](mailto:weiwulin@anycubic.com)

### 1.4. Emergency telephone number

Emergency number : 17688757950  
Only available during office hours.

Country	Official advisory body	Address	Emergency number
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]  
Not classified

### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Child-resistant fastening : Not applicable  
Tactile warning : Not applicable

	<b>SAFETY DATA SHEET</b>	Page : 2 / 11
		Revision nr : 1.0
		Issue date : 19/04/2022
	<b>ANYCUBIC PLA filament</b>	Supersedes :

### 2.3. Other hazards

Other hazards : Results of PBT and vPvB assessment : Not applicable.

The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Substance name : 1,4-Dioxane-2,5-dione, 3,6-dimethyl-, (3R,6R)-, polymer with rel-(3R,6S)-3,6-dimethyl-1,4-dioxane-2,5-dione and (3S,6S)-3,6-dimethyl-1,4-dioxane-2,5-dione

CAS-No. : 9051-89-2

EC-No. : 618-575-7

Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1,4-Dioxane-2,5-dione, 3,6-dimethyl-, (3R,6R)-, polymer with rel-(3R,6S)-3,6-dimethyl-1,4-dioxane-2,5-dione and (3S,6S)-3,6-dimethyl-1,4-dioxane-2,5-dione	(CAS-No.) 9051-89-2 (EC-No.) 618-575-7	100	Not classified

Full text of H- and EUH-statements: see section 16

### 3.2. Mixtures

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

Additional advice : First aider: Pay attention to self-protection!. Concerning personal protective equipment to use, see section 8. Never give anything by mouth to an unconscious person. In case of doubt or persistent symptoms, consult always a physician. Show this safety data sheet to the doctor in attendance.

Inhalation : Remove casualty to fresh air and keep warm and at rest. In case of doubt or persistent symptoms, consult always a physician.

Skin contact : Remove contaminated clothing and shoes. Gently wash with plenty of soap and water. In case of doubt or persistent symptoms, consult always a physician.

Eyes contact : Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. In case of doubt or persistent symptoms, consult always a physician.

Ingestion : Rinse mouth thoroughly with water. Get medical advice/attention.

### 4.2. Most important symptoms and effects, both acute and delayed

Inhalation : Non-hazardous substance. No adverse effects are expected.

Skin contact : Non-hazardous substance. No adverse effects are expected.

Eyes contact : Non-hazardous substance. No adverse effects are expected.

Ingestion : Non-hazardous substance. No adverse effects are expected.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

	<b>SAFETY DATA SHEET</b>	Page : 3 / 11
		Revision nr : 1.0
	<b>ANYCUBIC PLA filament</b>	Issue date : 19/04/2022
		Supersedes :

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : carbon dioxide (CO<sub>2</sub>), powder, alcohol-resistant foam, water spray.  
 Unsuitable extinguishing media : Strong water jet.

### 5.2. Special hazards arising from the substance or mixture

Specific hazards : Not flammable.  
 Hazardous decomposition products in case of fire : Carbon oxides (CO, CO<sub>2</sub>).

### 5.3. Advice for firefighters

Firefighting instructions : Evacuate area. Use water spray or fog for cooling exposed containers. Contain the extinguishing fluids by bunding. Prevent fire fighting water from entering the environment.  
 Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus.  
 Other information : Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

For non-emergency personnel : Evacuate unnecessary personnel. Keep upwind. Provide adequate ventilation. Do not breathe dust. Avoid contact with skin, eyes and clothing. Wear recommended personal protective equipment. Concerning personal protective equipment to use, see section 8. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### 6.1.2. For emergency responders

For emergency responders : Ensure procedures and training for emergency decontamination and disposal are in place. Concerning personal protective equipment to use, see section 8.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Notify authorities if product enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Stop leak if safe to do so. Dam up the solid spill. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. Large spills: scoop solid spill into closing containers. This material and its container must be disposed of in a safe way, and as per local legislation.

### 6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

	<b>SAFETY DATA SHEET</b>	Page : 4 / 11
		Revision nr : 1.0
		Issue date : 19/04/2022
	<b>ANYCUBIC PLA filament</b>	Supersedes :

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Provide adequate ventilation. Do not breathe dust. Avoid contact with skin, eyes and clothing. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Take any precaution to avoid mixing with Incompatible materials, Refer to Section 10 on Incompatible Materials. Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time). Avoid release to the environment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Hygiene measures : Keep good industrial hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse.

### 7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in a dry, cool and well-ventilated place. Do not store near or with any of the incompatible materials listed in section 10.
- Heat and ignition sources : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect from sunlight.
- Packaging materials : Keep only in the original container.

### 7.3. Specific end use(s)

3D printer filaments.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

- Additional information : Recommended monitoring procedures : Personal air monitoring. Room air monitoring

### 8.2. Exposure controls

- Engineering measure(s) : Provide adequate ventilation. Organisational measures to prevent /limit releases, dispersion and exposure. See Section 7 for information on safe handling.
- Personal protective equipment : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- Hand protection : Wear chemically resistant gloves (tested to EN374) . Suitable material: Not determined. Breakthrough time : Not determined. Thickness : Not determined. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.
- Eye protection : Use suitable eye protection (EN166): Safety glasses
- Body protection : Wear suitable protective clothing
- Respiratory protection : Not required for normal conditions of use
- Thermal hazard protection : Not required for normal conditions of use. Use dedicated equipment.
- Environmental exposure controls : Avoid release to the environment. Comply with applicable Community environmental protection legislation.

	<b>SAFETY DATA SHEET</b>	Page : 5 / 11
		Revision nr : 1.0
	<b>ANYCUBIC PLA filament</b>	Issue date : 19/04/2022
		Supersedes :

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Solid.
Colour	: Grey.
Odour	: Sweet.
Odour threshold	: No data available
pH	: Not applicable
pH solution	: Not available
Relative evaporation rate (butylacetate=1)	: No data available
Melting / freezing point	: 150 – 180 °C
Freezing point	: No data available
Initial boiling point and boiling range	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: 388 °C
Decomposition temperature	: 250 °C
Flammability (solid, gas)	: Not flammable
Vapour pressure	: No data available
Vapour density	: No data available
Relative density	: 1,25
Solubility	: Insoluble in water.
Partition coefficient n-octanol/water	: No data available
Kinematic viscosity	: Not applicable
Dynamic viscosity	: Not applicable
Explosive properties	: Not applicable. The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.
Oxidising properties	: Not applicable. The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with oxidising properties.
Explosive limits	: No data available
Particle size	: Not available
Particle size distribution	: Not available
Particle shape	: Not available
Particle aspect ratio	: Not available
Particle aggregation state	: Not available
Particle agglomeration state	: Not available
Particle specific surface area	: Not available
Particle dustiness	: Not available

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

	<b>SAFETY DATA SHEET</b>	Page : 6 / 11
		Revision nr : 1.0
	<b>ANYCUBIC PLA filament</b>	Issue date : 19/04/2022
		Supersedes :

### 9.2.2. Other safety characteristics

Other properties : Glass Transition Temperature : 55-60 °C

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

None under normal conditions. Reference to other sections: 10.4 & 10.5.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect from sunlight. See Section 7 for information on safe handling.

### 10.5. Incompatible materials

None known. See Section 7 for information on safe handling.

### 10.6. Hazardous decomposition products

Reference to other sections 5.2.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity	: Not classified (Based on available data, the classification criteria are not met)
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: Not applicable
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: Not applicable
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)

### ANYCUBIC PLA filament (9051-89-2)

Kinematic viscosity	Not applicable
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Other information : Symptoms related to the physical, chemical and toxicological characteristics. For further information see section 4.

	<b>SAFETY DATA SHEET</b>	Page : 7 / 11
		Revision nr : 1.0
		Issue date : 19/04/2022
	<b>ANYCUBIC PLA filament</b>	Supersedes :

## **11.2. Information on other hazards**

### **11.2.1. Endocrine disrupting properties**

Adverse health effects caused by endocrine disrupting properties : The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

### **11.2.2 Other information**

Other information : Symptoms related to the physical, chemical and toxicological characteristics, For further information see section 4

## **SECTION 12: Ecological information**

### **12.1. Toxicity**

Environmental properties : According to the criteria of the European classification and labelling system, the substance/the product has not to be labelled as "dangerous for the environment".

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

### **12.2. Persistence and degradability**

<b>ANYCUBIC PLA filament (9051-89-2)</b>	
Persistence and degradability	No additional information available.

### **12.3. Bioaccumulative potential**

<b>ANYCUBIC PLA filament (9051-89-2)</b>	
Partition coefficient n-octanol/water	No data available
Bioaccumulative potential	No additional information available.

### **12.4. Mobility in soil**

<b>ANYCUBIC PLA filament (9051-89-2)</b>	
Mobility in soil	No data available

### **12.5. Results of PBT and vPvB assessment**

<b>ANYCUBIC PLA filament (9051-89-2)</b>	
Results of PBT assessment	Not applicable

	<b>SAFETY DATA SHEET</b>	Page : 8 / 11
		Revision nr : 1.0
		Issue date : 19/04/2022
	<b>ANYCUBIC PLA filament</b>	Supersedes :

**12.6. Endocrine disrupting properties**

Adverse effects on the environment caused by endocrine disrupting properties : The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

**12.7. Other adverse effects**

Other adverse effects : No data available

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

Product/Packaging disposal recommendations : Avoid release to the environment. Dispose of empty containers and wastes safely. See Section 7 for information on safe handling. Refer to manufacturer/supplier for information on recovery/recycling. Recycling is preferred to disposal or incineration. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations. Handle contaminated packages in the same way as the substance itself. Dispose of contaminated materials in accordance with current regulations.

European waste catalogue (2001/573/EC, 75/442/EEC, 91/689/EEC) : Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities

**SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.2. UN proper shipping name</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

**14.6. Special precautions for user**

Special precautions for user : No data available

**- Overland transport**

Not applicable

**- Transport by sea**

Not applicable



	<b>SAFETY DATA SHEET</b>	Page : 9 / 11
		Revision nr : 1.0
		Issue date : 19/04/2022
	<b>ANYCUBIC PLA filament</b>	Supersedes :

**- Air transport**

Not applicable

**- Inland waterway transport**

Not applicable

**- Rail transport**

Not applicable

**14.7. Maritime transport in bulk according to IMO instruments**

Code: IBC : No data available.

**SECTION 15: Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**15.1.1. EU-Regulations**

No REACH Annex XVII restrictions

ANYCUBIC

PLA filament is not on the REACH Candidate List

ANYCUBIC

PLA filament is not on the REACH Annex XIV List

**15.1.2. National regulations**

**France**

No ICPE	Installations classées Désignation de la rubrique	Code Régime	Rayon
na	Not Applicable	na	na

**Germany**

Regulatory reference : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1)

German storage class (LGK) : LGK 13 - Non-combustible solids

Hazardous Incident Ordinance (12. BlmSchV) : Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

**Netherlands**

Waterbezwaarlijkheid : B (4) - Weinig schadelijk voor in het water levende organismen

SZW-lijst van kankerverwekkende stoffen : The substance is not listed

SZW-lijst van mutagene stoffen : The substance is not listed

SZW-lijst van reprotoxische stoffen – Borstvoeding : The substance is not listed

SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : The substance is not listed

SZW-lijst van reprotoxische stoffen – Ontwikkeling : The substance is not listed

	<b>SAFETY DATA SHEET</b>	Page : 10 / 11
		Revision nr : 1.0
		Issue date : 19/04/2022
	<b>ANYCUBIC PLA filament</b>	Supersedes :

## 15.2. Chemical safety assessment

Not applicable

## SECTION 16: Other information

Abbreviations and acronyms:

	ABM = Algemene beoordelingsmethodiek
	ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin
	ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
	CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC
	IATA = International Air Transport Association
	IMDG = International Maritime Dangerous Goods Code
	LEL = Lower Explosive Limit/Lower Explosion Limit
	UEL = Upper Explosion Limit/Upper Explosive Limit
	REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
	BTT = Breakthrough time (maximum wearing time)
	DMEL = Derived Minimal Effect level
	DNEL = Derived No Effect Level
	EC50 = Median Effective Concentration
	EL50 = Median effective level
	ErC50 = EC50 in terms of reduction of growth rate
	ErL50 = EL50 in terms of reduction of growth rate
	EWC = European waste catalogue
	LC50 = Median lethal concentration
	LD50 = Median lethal dose
	LL50 = Median lethal level
	NA = Not applicable
	NOEC = No observed effect concentration
	NOEL: no-observed-effect level
	NOELR = No observed effect loading rate
	NOAEC = No observed adverse effect concentration
	NOAEL = No observed adverse effect level
	N.O.S. = Not Otherwise Specified
	OEL = Occupational Exposure Limits - Short Term Exposure Limits (STELs)
	PNEC = Predicted No Effect Concentration
	Quantitative structure-activity relationship (QSAR)
	STOT = Specific Target Organ Toxicity
	TWA = time weighted average
	VOC = Volatile organic compounds
	WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)

Sources of key data used to compile the : ECHA (European Chemicals Agency). LOLI. Supplier information. datasheet

Training advice : Training staff on good practice.

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878  
Classification according to Regulation (EC) No. 1272/2008 [CLP]  
Labelling according to Regulation (EC) No. 1272/2008 [CLP]

	<b>SAFETY DATA SHEET</b>	Page : 11 / 11
		Revision nr : 1.0
		Issue date : 19/04/2022
	<b>ANYCUBIC PLA filament</b>	Supersedes :

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