

Guangzhou Yousu Technology Co., Ltd

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SDS Number: RF160

Version: 1.0

# 1. PRODUCT AND COMPANY IDENTIFICATION

**Product identifier** 

Product name : YOUSU PLASTIC PETG 3D FILMAENT

Product code YS-PETG<sup>141</sup>

Recommended use of the chemical and restrictions on use

Details of the supplier of the safety data

sheet

Guangzhou Yousu 3D Technology Co. Ltd. 4th Floor, Building B, Chuangtian Industrial Park, Lanshan Village, Xiancun Town, ZengCheng District, Guangzhou,

Guangdong,

China

Emergency telephone number

+86-20-32093406

Website

http://www.ysfilament.com

Email

sales@ysfilament.com

Identified use : Thermoplastics which can be used for 3D printing

# 2. HAZARD IDENTIFICATION

#### **GHS Classification**

This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

#### GHS label elements

Hazard Statement: None required

Precautionary Statement: None Signal word: None Pictogram: None

Other hazards

According to Annex XIII, the substance does not meet PBT or vPvB criteria.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Hazardous components**

Chemical name and CAS	Content %	OSHA Exposure Limits:	ACGIH Exposure Limits:
Copolyester	>98	None	None

# 4. FIRST AID MEASURES

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If inhaled : Essentially no fumes will be released from heated material, if

respiratory irritation occurred immediately remove a person to

fresh air and consult a doctor.

In case of skin contact : Contact with heated material, rinse the skin with water and

soap for at least 15 minutes. If symptoms persist, consult a

doctor.

In case of eye contact : Contact with material, rinse opened eye for at least 15 minutes

with plenty of water. If symptoms persist, consult a doctor.

If swallowed : Drink water as a precaution. Never give anything by mouth to an

unconscious person. Do not induce vomiting without medical

advice. Call a physician immediately.

Notes to physician : Treat symptomatically.

# 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Foam, Water, Carbon dioxide (CO<sub>2</sub>), Dry chemical, Alcohol

resistant foams are preferred if available. General-purpose synthetic foams (including AFFF) or protein foams may

function, but much less effectively.

Specific hazards during

firefighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

: Burning produces carbon monoxide (CO) and carbon dioxide

(CO<sub>2</sub>).

Specific extinguishing

methods

: Product is compatible with standard fire-fighting agents.

Remove the flammability.

Under fire conditions : Cool containers / tanks with water spray. Water mist may be

used to cool closed containers. Fine dust dispersed in air may ignite. Risks of ignition followed by flame propagation or secondary explosions shall be prevented by avoiding

accumulation of dust, e.g. on floors and ledges.

Special protective equipment :

for firefighters

As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear.

Auto-ignition temperature 454 ℃

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid contact with skin and eyes. Avoid dust formation. Remove all sources of

ignition. Sweep up to prevent slipping hazard.

Environmental precautions : Do not flush into surface water or sanitary sewer system. Do

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not allow material to contaminate ground water system.

Methods and materials for containment and cleaning up

Clean up promptly by scoop or vacuum. Sweep up and shovel

into suitable containers for disposal.

# 7. HANDLING AND STORAGE

Advice on safe handling : Use personal protective equipment. Avoid contact with skin and

eyes. Low hazard for usual industrial or commercial handling. Workers should be protected from the possibility of contact with

molten material during fabrication.

Avoid dust formation. If small particles are generated during further processing, handling, or by other means, combustible

dust concentrations in air may form.

Conditions for safe storage : Store at temperatures not exceeding 50°C/ 122°F. Keep cool. No

special restrictions on storage with other products.

Materials to avoid : No special precautions required.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Exposure limits:**

None established. This material can generate Particulates Not Otherwise Classifiable (PNOC). The Occupational Safety and Health Administration (OSHA) PEL/TWA for PNOC is 15 mg/m³ for total dust and 5 mg/m³ for the respirable fraction. The American Conference of Governmental Industrial Hygienists (ACGIH) TLV/TWA for PNOC is 10 mg/m³ for inhalable particulates and 3 mg/m³ for respirable particulates.

Engineering measures : Where reasonably practicable this should be achieved by the

use of local exhaust ventilation and good general extraction. Provide appropriate exhaust ventilation at places where dust

is formed.

Personal protective equipment

Respiratory protection : Respirator must be worn if exposed to dust. Wear respirator

with dust filter. Consult an industrial hygiene professional prior to respirator selection and use. Use a postive-pressure air supplied respirator if there is any potential for an uncontrolled

release, exposure levels are not known, or any other

circumstances where air-purifying respirators may not provide

adequate protection.

Eye protection : Safety glasses with side-shields. Goggles.

Skin and body protection : Impervious clothing.

Hygiene measures : Observe good industrial hygiene practices.

Avoid contact with skin, eyes and clothing.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state Solid Odour Slight ordor Diameter 1.75/2.85mm : Not available рΗ Boiling point/boiling range : Not available Flash point : Not available Evaporation rate : Not available Decomposition temperature : 250°C : 1.27g/cm<sup>3</sup> Density Water solubility : Insoluble

# 10. STABILITY AND REACTIVITY

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous

reactions

: Containers may explode when heated..

Fire may produce irritating and/or toxic gases.

Some liquids produce vapors that may cause dizziness or

suffocation

Inhalation of material may be harmful

Conditions to avoid : Avoid contact with incompatible materials.

Avoid release to the environment.

Incompatible materials

Hazardous decomposition

products

: Combustibles

Irritating and/or toxic gases

### 11. TOXICOLOGICAL INFORMATION

Information on likely routes of : Inhalation

exposure Skin contact

**Eye Contact** Ingestion

**Acute toxicity** 

Molten material will produce thermal burns

#### Skin corrosion/irritation/

Product dust may be irritating to eyes, skin and respiratory system.

#### Serious eye damage/eye irritation

Molten material will produce thermal burns

Respiratory or skin sensitisation

Product dust may be irritating to eyes, skin and respiratory system.

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#### Germ cell mutagenicity

Not mutagenic in AMES Test..

#### Carcinogenicity

None of the components of this product are listed as carcinogens by IARC, NTP, or OSHA.

#### Reproductive toxicity

No data is available on the product itself.

#### STOT - single exposure

There were no target organ effects noted following ingestion or dermal exposure in animal studies.

#### STOT - repeated exposure

There were no target organ effects noted following ingestion or dermal exposure in animal studies.

#### Aspiration toxicity

Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough. Burning produces irritant fumes.

# Further information Carcinogenicity:

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.

OSHA No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

#### **Product:**

**Ecotoxicology Assessment** 

Acute aquatic toxicity : EC50/72h/algae > 1100 mg/L

Persistence and degradability

Inherently biodegradable under industrial composting conditions

#### Bioaccumulative potential

Not expected to bioconcentrate or bioaccumulate.

#### Mobility in soil

No data available

#### Other adverse effects

No data available

# 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

General advice : In accordance with local and national regulations. Should not

be released into the environment. Do not contaminate ponds, waterways or ditches with chemical or used container. Contact

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manufacturer.

: Empty containers should be transported/delivered using a Contaminated packaging

registered waste carrier to local recyclers for disposal.

# 14. TRANSPORT INFORMATION

#### International transport regulations

#### REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT /
					LTD. QTY.

#### U.S. DOT - ROAD

Not dangerous goods

#### U.S. DOT - RAIL

Not dangerous goods

#### **U.S. DOT - INLAND WATERWAYS**

Not dangerous goods

#### TRANSPORT CANADA - ROAD

Not dangerous goods

#### TRANSPORT CANADA - RAIL

Not dangerous goods

#### TRANSPORT CANADA - INLAND WATERWAYS

Not dangerous goods

#### INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods

#### **INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO**

Not dangerous goods

#### INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods

#### MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

Not dangerous goods

#### \*ORM = ORM-D. CBL = COMBUSTIBLE LIQUID

Marine pollutant	no

# 15. REGULATORY INFORMATION

SARA 311/312 Hazards

No SARA Hazards

**SARA 313** 

Component(s)SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other

reproductive harm.

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The components of this product are reported in the following inventories:

TSCA : On TSCA Inventory

DSL : All components of this product are on the Canadian DSL

AUSTR : On the inventory, or in compliance with the inventory ENCS : On the inventory, or in compliance with the inventory KECL : On the inventory, or in compliance with the inventory PHIL : On the inventory, or in compliance with the inventory IECSC : On the inventory, or in compliance with the inventory

#### **Inventories**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

# **16. OTHER INFORMATION**

#### Further information Revision Date: 04/11/2016

**Further information** 

To the best of our knowledge, the information herein is accurate, However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein. All material may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.