

Material Safety Data Sheet

1. COMPANY IDENTIFICATION

Product Name PETG filament
Product Use Printing material for XYZprinting 3D printer
Company XYZprinting, Inc.
Address No.147, Sec. 3, Beishen Rd., Shenkeng Dist., New Taipei City,
 Taiwan (R.O.C.)
Information Phone No. 886-2-7705 8001
Emergency Phone No. 886-2-7705 8001

2. HAZARD IDENTIFICATION

Potential health effects

Eye contact Contact with eyes may cause irritation.
Skin contact Substance may cause slight skin irritation.
Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and
 diarrhoea.
Target organ effects There were no target organ effects noted following ingestion or
 dermal exposure in animal studies.
Sensitization Did not cause sensitization on laboratory animals
Specific hazards No information available
Environmental precautions Not determined See Section 12 for more information.
Flammability Fine dust dispersed in air may ignite.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance Name	CAS Number	Concentration(%)	Classification	
			Directive 67/548/EEC	Regulation EC No 1272/2008
Neopentylglycol- ethyleneglycol terephthalate copolymer	026780-49-4	100	Not Classified	Not Classified

4. FIRST AID MEASURES

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15
 minutes. Call a physician immediately.
Skin contact Rinse immediately with plenty of water for at least 15 minutes. If skin

irritation persists, call a physician. Cool skin rapidly with cold water after contact with hot polymer.

Inhalation

Move to fresh air. Call a physician immediately.

Ingestion

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. FIRE-FIGHTING MEASURES

Flammability

Non-flammable

Suitable extinguishing media

Foam. Water. Carbon dioxide (CO₂). Dry chemical. Alcohol resistant foams are preferred if available. General-purpose synthetic foams (including AFFF) or protein foams may function, but much less effectively.

Extinguishing media which must not be used for safety reasons

No information available

Hazardous decomposition products

Burning produces obnoxious and toxic fumes Aldehydes Carbon monoxide (CO) carbon dioxide (CO₂)

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.

Under fire conditions

Cool containers / tanks with spray water. Water mist may be used to cool closed containers.

Other information

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.

6. ACCIDENTAL RELEASE MEASURES

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.

Control parameters

None

7. PERSONAL PROTECTIVE EQUIPMENT

Eye protection	Safety glasses with side-shields. Goggles.
Skin and body protection	Impervious clothing.
Respiratory protection	Respirator must be worn if exposed to dust. Wear respirator with dust filter. Respiratory protection is needed if any of the exposure limits in Section 2 are exceeded. Consult an industrial hygiene professional prior to respirator selection and use. Use a positive-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. WARNING: Air purifying respirators do not protect workers in oxygen-deficient atmospheres.
Hand protection	Preventive skin protection.
Hygiene measures	Avoid contact with skin, eyes and clothing.
Exposure limits	See Section 2.

8. HANDLING AND STORAGE

Safe handling advice	Avoid contact with skin and eyes. Avoid dust formation. Workers should be protected from the possibility of contact with molten material during fabrication. Low hazard for usual industrial or commercial handling. Use personal protective equipment. See Section 8.
Storage	Store in cool place. Keep at temperatures below 122F (50 °C). No special restrictions on storage with other products
Precautions	No special precautions required

9. EXPOSURE CONTROLS MEASURES

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.
Control parameters	None

10. PERSONAL PROTECTIVE EQUIPMENT

Eye protection	Safety glasses with side-shields. Goggles.
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Section 2 are exceeded. Consult an industrial hygiene professional prior to respirator selection and use. Use a positive-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.

WARNING: Air purifying respirators do not protect workers in oxygen-deficient atmospheres.

Hand protection	Preventive skin protection.
Hygiene measures	Avoid contact with skin, eyes and clothing.
Exposure limits	See Section 2.

11. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Spool, string, strand
Color	White
Odor	Slight
pH	Not applicable
Vapor pressure	Not determined
Vapor density	Not determined
Evaporation rate	Not determined
Density	>1.29 g/cc
Boiling point/range	Not applicable
Water solubility	Insoluble
Solubility in other solvents	None known

12. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions
Conditions to avoid	No specific data.
Materials to avoid	Acetic Anhydride, acetone, aniline, benzene, chloroform, chromic acid, cyclohexanone, dimethylformamide, dioxane, ethyl acetate, phenol, tetrahydrofuran. Reactive with strong oxidizing agents, as well as strong acids and caustic will decompose polyester.
Hazardous decomposition products	Burning produces obnoxious and toxic fumes. Aldehydes. Carbon monoxide (CO). Carbon dioxide (CO ₂).

13. TOXICOLOGICAL INFORMATION

Principle Routes of Exposure	Not available.
Acute toxicity	Not available.
Local effects	Not available.
Long term toxicity	Not available.
Mutagenic effects	Not available.
Reproductive toxicity	Not available.
Carcinogenic effects	Not available.
Target organ effects	There were no target organ effects noted following ingestion or dermal exposure in animal studies.
Skin	Not available.
Ingestion	Not available.

14. ECOLOGICAL INFORMATION

Mobility	No data available
Bioaccumulation	No data available
Ecotoxicity effects	No data available

15. DISPOSAL CONSIDERATIONS

Product Methods of disposal	Like most thermoplastics, the product can be recycled. Can be landfilled or incinerated, when in compliance with local regulations.
Hazardous waste	Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.
Packaging Methods of disposal	The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

16. TRANSPORT INFORMATION

U.S. Department of Transportation (DOT)

Proper shipping name Not regulated as a hazardous material.

IMDG

Proper shipping name None

Hazard class Not regulated.

UN/Id No. None

Packing group None

ICAO/IATA

Proper shipping name None

Hazard Class Not regulated.

Packing group None

17. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture EU

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

List of Substances of Very High Concern for Authorization: None of the components are listed.

Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles: Not applicable

Chemical Safety Assessment: Not available

18. OTHER INFORMATION

None