

SAFETY DATA SHEET

According to 2015/830/EC

PET-G Filament

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

1.1. Product identifier

Product name: **PET-G copolymer resin**

Type of product: **PET-G Filament**

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

Professional application: A polymer, which can be used for for the production of 3D printing filaments. Uses advised against: undefined

1.3. Details of reseller

Silver3d srls – Printologist

Made in Poland

1.4. Emergency telephone number

European emergency number: 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

The product is not classified as hazardous according to Regulation (EC) 1272/2008

2.2. Label elements

Labeling according to Regulation (EC) No 1272/2008

Signal word none

Pictograms none

Hazard statements none

Precautionary statements

Prevention P280 Wear protective gloves.

Response none

Storage none

Removal None

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2.3. Other hazards

This substance does not meet the criteria for PBT or vPvB in accordance with Annex XIII. The product may generate dust.

SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical nature: terephthalic resin with stabilizer and catalyst

Name of substances:

Polyethylene- terephthalate copolymer	CAS: 26780-49-4	Weight %:
99,9 1,3 beznenedicarboxylic acid, 2,2 dimetylo – 1,3-propanepiol polymer and 1,2 – ethanediol		

The polymer contains minor additives such as stabilizers and catalysts. These are additives immobilized by the polymer and will not be released under normal use.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

Move the person to fresh air. Arrange in a comfortable position. Ensure warmth and peace. If symptoms persist, seek medical attention.

Ingestion Rinse mouth with water. Give to drink 2-3 glasses of water. Do not induce vomiting without direct control of medical personnel. Never give anything by mouth an unconscious person. Contact doctor if status of a person is serious or if symptoms persist.

Eye contact

Flush eyes with large amounts of water for at least 10-15 minutes while holding the eyelids open to ensure that the entire surface is flushed. If symptoms persist, seek medical attention.

Skin contact

Take off contaminated clothing and shoes. In case of contact with molten polymer immediately cool the skin with cold water. Do not peel polymer from the skin. Medical aid may be required to remove adhering material and for treatment of burns.

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

Dust can cause irritation of eyes, respiratory organs and skin. After ingestion stomach pain or nausea are possible.

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

In the workplace should be available measures to help before medical attention. Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Fire-extinguishing powder, fire-fighting foam, carbon dioxide, sand, water spray.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

Thermal decomposition or combustion may liberate carbon oxides, nitrogen oxides, aldehydes. Avoid breathing combustion products, they can pose a health risk.

Explosive mixture

Fine dust dispersed in air may ignite.

5.3. Advice for firefighters

Cool containers with water spray. Water mist may be used to cool closed containers. Avoid dust formation. Fine dust dispersed in air may ignite.

Special protective equipment for firefighters

Self-contained breathing apparatus

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with the releasing substance. Wear suitable protective equipment to prevent any contamination of skin, eyes and personal clothing. Avoid contact with skin, eyes and clothes. Avoid dust formation.

Remove from the danger zone all persons not involved in the emergency and, if necessary, order the evacuation.

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6.2. Environmental precautions

Do not allow product to reach sewage system or any water course.

Do not allow environmental pollution.

Do not allow material to contaminate ground water system.

If spill occurs on water notify appropriate authorities.

6.3. Methods and material for containment and cleaning up

Remove any potential sources of ignition. No smoking.

Secure damaged packaging.

Avoid dust formation.

Collect mechanically and using industrial vacuum cleaners.

Sweep up material and place in a container, risk of slipping.

6.4. Reference to other sections

See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes.

Avoid breathing dust.

Avoid keeping resin molten for excessive periods of time at elevated temperatures.

Prolonged exposure will cause polymer degradation.

Do not eat, drink or smoke during use.

Remove and wash contaminated clothing before re-use.

Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage rooms must be ventilated.

Keep containers tightly closed.

Keep in a cool place.

Protect against sunlight and strong heat sources.

Avoid accumulation of dust.

Store at temperatures not exceeding 50°C.

Avoid generation of dust and electrostatic charge.

7.3. Specific end use(s)

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No data

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Ingredients with limit values that require monitoring at the workplace

Substances	CAS No. NDSch	NDS	NDSP	Comments
Dusts are not classified because of their toxicity - inhalable fraction	Mg/m3 10	Mg/m3 -	Mg/m3 -	-

8.2. Exposure controls

Appropriate engineering controls

Ensure good ventilation/exhaustion at the workplace.

Personal protective equipment **Eye protection** Safety glasses with side-shields (EN 166).

Hand protection

The selected protective gloves have to meet the requirements of EN 374.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Body protection The type of protective equipment must be selected according to the concentration and amount of hazardous substance in the specific working environment

SECTION 9: Physical and chemical properties

~~Respiratory protection~~ Under normal operating conditions is not required. In case of dust formation wear mask with particle filter.

~~Environmental exposure controls~~ Do not let product enter drains

9.1. Information on basic physical and chemical properties

Appearance:	Wire
Odour:	Slight
pH:	Not applicable
Flash point:	Not applicable
Evaporation rate:	No data available
Flammability (solid, gas):	Not flammable

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Vapour pressure:	No data available
Vapour density:	Not available
Relative density:	Not applicable 1,29 g/cm ³
Solubility(ies):	Insoluble in water

9.2. Other information

No data

SECTION 10: Stability and reactivity

10.1. Reactivity

No specific test data related to reactivity available for this product or its ingredients

10.2. Chemical stability

The product is stable

10.3. Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur

10.4. Conditions to avoid

No specific data

10.5. Incompatible materials

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

10.6. Hazardous decomposition products

Carbon monoxide, carbon dioxide, acetaldehyde

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on the likely routes of exposure Not available.

Potential acute health effects

Inhalation	No known significant effects or critical hazards.
Ingestion	No known significant effects or critical hazards.
Skin contact	No known significant effects or critical hazards.
Eye contact	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

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Inhalation	No specific data.
Ingestion	No specific data.
Skin contact	No specific data.
Eye contact	No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure Short term exposure

Potential immediate effects	Not available.
Potential delayed effects	Not available.

Long term exposure:

Potential immediate effects	Not available.
Potential delayed effects	Not available.
General	No known significant effects or critical hazards.
Carcinogenicity	No known significant effects or critical hazards.
Mutagenicity	No known significant effects or critical hazards.
Teratogenicity	No known significant effects or critical hazards.
Fertility effects	No known significant effects or critical hazards.

SECTION 12: Ecological information

12.1. Toxicity

Not available

12.2. Persistence and degradability

Not available

12.3. Bioaccumulative potential

Not available

12.4. Mobility in soil

Not available

12.5. Results of PBT and vPvB assessment

Not available

12.6. Other adverse effects

No known significant effects or critical hazards

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Used packaging is sent to an authorized company for recycling or reuse.

Do not store with municipal waste.

Do not empty into drains, surface waters and sewage.

Waste code

Act of December 14, 2012 on waste (consolidated text: Journal of Laws of 2018, item 992, as amended) Regulation of the Minister of the Environment of December 9, 2014 on the waste catalog (Journal of Laws of 2014, item 1923) . The waste code must be assigned individually at the place of waste generation, depending on the industry and place of use.

SECTION 14: Transport information

1.	UN number	not applicable
2.	UN proper shipping name	not applicable
3.	Transport hazard class(es)	not applicable
	Label no. :	not applicable
4.	Packing group	not applicable
5.	Environmental hazards	no
6.	Special precautions for user	not applicable
7.	Transport in bulk according to Annex II of	not applicable

SECTION 15: Regulatory information

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

- **Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)**
- **Annex XIV List of Substances of Very High Concern for Authorization:** None of the components are listed.
- **Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles:** None of the components are listed.

15.2. Chemical safety assessment

No data

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SECTION 16: Other information

Full text of H-phrases mentioned in section 3:

This information is based on the present state of our knowledge, they are no assurance of product features and shall not establish a contractual relationship.

Abbreviations and Acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

PP: Severe Marine Pollutant

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances CAS Chemical Abstracts Service (division of the American Chemical Society)

Note to readers

The information in this SDS is based on our current knowledge and the current legislation.

The product shall not, without first obtaining written Instructions for purposes other than those mentioned in Section 1 purpose be used. Provisions to ensure. The information in this Safety Data