



Safety Data Sheet

According to EU Directive 1907/2006

Product name: ONE PET

Date of issue: 31-05-2018

Version: 1.1

1. Identification of the substance/preparation and of the company

- 1.1 Trade name:**
ONE PET
- 1.2 Use of the product:**
3D printer filament
- 1.3 Supplier:**
Filamentive Ltd
Bradford Chamber Business Park
New Lane
Bradford, BD4 8BX
Tel: 0333 366 0020

2. Hazards identification

- 2.1 Classification of the substance or mixture**
This product is classified as not hazardous according to Regulation (EC) 1272/2008 and Directive 67/548/EEC.
- 2.2 Label elements**
None
- 2.3 Other hazards**
Danger of burns in contact with hot polymer and hazardous vapors in case of burning.

3. Composition/information on ingredients

- 3.1 Chemical characteristics:**
Polyethylene terephthalate (amorphous)
- 3.2 CAS no:**
25038-59-9
- 3.3 Additional information:**
No harmful ingredients.

4. First aid measures

- 4.1 On skin contact:**
In case of contact with molten polymer immediately cool the skin with cold water. Do not remove clothing. Medical aid may be required to remove adhering material and for treatment of burns. Get medical attention.
- 4.2 After inhalation:**
No effects known.
- 4.3 On ingestion:**
No effects known.
- 4.4 On eyes contact:**
No effects known. Rinse open eyes thoroughly with water in case of mechanical irritation.

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5. Fire fighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Water spray, mousse, powder, Sand, Carbon dioxide (CO₂).

Unsuitable extinguishing media :

Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Product is flammable at high temperatures

During combusting: release harmful or toxic vapours.

During incomplete combustion release of carbon monoxide, carbon dioxide.

5.3 Advice for fire fighters

Fire fighting measures

Cool the molten product

Evacuate non-essential personnel Move containers from fire area if you can do it without risk.

Keep containers and surroundings cool with water spray. Prevent fire extinguishing water from contaminating surface water or the ground water system.

Special protective equipment for fire-fighters

Wear self-contained breathing apparatus and protective suit.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Do not touch or walk through spilled material and prohibit personal from doing so. Avoid dust formation. Avoid contact with skin, eyes and clothing. Do not breathe dust. Use personal protective equipment. Ensure adequate ventilation. Risk of slipping

6.2 Environmental precautions

Should not be released into the environment. Prevent further leakage or spillage if safe to do so.

6.3 Methods and materials for containment and cleaning up

Avoid dust formation. Sweep up and shovel into suitable containers for disposal.

6.4 Reference to other sections

Refer to section (8)

7. Handling and storage

7.1 Handling

Handle in accordance with good industrial hygiene and safety practice.

Do not overheat the product.

Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not breathe dust. Ensure adequate ventilation. Wear personal protective equipment. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Keep containers tightly closed in a cool, well-ventilated place. Protect from moisture / Water.

Incompatible materials: oxidizing material

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8. Exposure controls/personal protection

8.1 Control parameters

Does not require specific or special measures provided that the general rules of safety and industrial hygiene are respected.

8.2 Exposure controls

Individual protection measures, such as personal protective equipment

Eye Protection

Safety goggles

Hand Protection

Protective gloves.

Skin and body protection

It is a good industrial hygiene practice to minimize skin contact. When material is heated, wear gloves to protect against thermal burns.

Respiratory Protection

Wear NIOSH or European Standard EN 149 approved full or half face piece (with goggles) respiratory protective equipment when necessary.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Workers must be trained in the proper use and handling of this product as required under applicable regulations.

Environmental exposure controls

The product should not be allowed to enter drains, water courses or the soil

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Solid Filament
Odour	Odourless
Colour	depending on product grade
Odour threshold	Slight odor
pH	Not applicable
Melting point	250~260°C
Initial boiling point and boiling range	Not applicable
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability (solid, gas)	Not available
Upper/lower flammability or explosive limits	Not applicable
Vapour pressure	Negligible
Vapour density	Not applicable
Relative density	Ca. 1.17 g/cm ³
Solubility(ies)	Negligible
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	>420°C
Decomposition temperature	>350°C
Viscosity	Not applicable
Explosive properties	Not explosive
Oxidizing properties	Not oxidizing

10. Stability

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10.1 Reactivity: No information available

10.2 Chemical stability:
Stable under recommended storage conditions

10.3 Possibility of hazardous reactions:
No hazardous reactions observed under normal handling and storage conditions

10.4 Conditions to avoid
Temperatures above 350°C

10.5 Incompatible materials:
Oxidizing agents

10.6 Hazardous decomposition products
Burning produces obnoxious and toxic fumes Carbon monoxide (CO), carbon dioxide (CO₂) in case of partial decomposition

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

Ingestion: No known effect.

Skin Contact : No known effect.

Inhalation : No known effect.

Product dust may be irritating to eyes, skin and respiratory system. Resin particles, like other inert materials, are mechanically irritating to eyes.

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea

Molten material will produce thermal burns

12. Ecological information

12.1 Toxicity
Contains no substances known to be hazardous for the environment.

12.2 Persistence and degradability
Product is only slightly biodegradable.

12.3 Bio accumulative potential
Generally persistent in soils based on chemical.

12.4 Mobility in soil
Generally persistent in soils based on chemical.

12.5 Results of PBT and vPvB assessment
No PBT or vPvB assessment has been performed on the material

12.6 Other adverse effects
No information available..

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13. Disposal considerations

13.1 Waste treatment methods

Waste from residues / unused products

Recycle the product as much as possible.

Generation of waste should be minimized, check possibility for recycling.

Waste product can be incinerated or dumped together with domestic waste in compliance with local authority requirements.

Contaminated Packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

Product has been classified as being non-dangerous substance according to transport regulations ADR, RID, IMDG, IATA/ICAO

14.1 UN number

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing Group

Not applicable

14.5 Environmental hazards

No additional data is available

14.6 Special precautions for user

No data available

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not evaluated

15. Regulatory information

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

Dangerous as defined by the EU CLP 2008:

This product is not classified and labelled as dangerous according to EC directives.

15.2 Chemical Safety Assessment

No information available.



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16. Other information

Information is referenced from other manufacturers.

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 and Regulation (EC) No. 2015/830. Label element according to Regulation (EC) No 1272/2008.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.