

# Material Safety Data Sheet

Issued May 2020

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product identifier

**Trade name:** PET-G FILAMENT for 3D PRINTER  
**Registration number:** -  
**Synonyms:** None

55050 Verbatim PET-G Filament 1.75mm 1kg - White  
55052 Verbatim PET-G Filament 1.75mm 1kg - Black  
55053 Verbatim PET-G Filament 1.75mm 1kg - Red  
55054 Verbatim PET-G Filament 1.75mm 1kg - Red Transparent  
55055 Verbatim PET-G Filament 1.75mm 1kg - Blue  
55056 Verbatim PET-G Filament 1.75mm 1kg - Blue Transparent  
55057 Verbatim PET-G Filament 1.75mm 1kg - Green  
Transparent  
55058 Verbatim PET-G Filament 2.85 mm 1kg - White  
55060 Verbatim PET-G Filament 2.85 mm 1kg - Black  
55061 Verbatim PET-G Filament 2.85 mm 1kg - Red  
55062 Verbatim PET-G Filament 2.85 mm 1kg - Red Transparent  
55063 Verbatim PET-G Filament 2.85 mm 1kg - Blue  
55064 Verbatim PET-G Filament 2.85 mm 1kg - Blue Transparent  
55065 Verbatim PET-G Filament 2.85 mm 1kg - Green  
Transparent

**1.2. Relevant identified uses:** 3D Printer Filament

**Grade:** Verbatim

**1.3. Supplier:** Verbatim GmbH

**Address:** Duesseldorfer Strasse 13  
D- 65760  
Eschborn, Germany  
**Email:** Info.germany@verbatim-europe.com

**Emergency Telephone  
Number:** +49 (0) 6196 9001- 0

## 2. HAZARDS IDENTIFICATION GHS Classification:

### 2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification apply:

#### **Classification according to Regulation (EC) No 1272/2008 as amended.**

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

### 2.2. Label elements

#### **Label according to Regulation (EC) No. 1272/2008 as amended**

**Hazard pictograms:** None  
**Signal word:** None  
**Hazard statements:** The mixture does not meet the criteria for classification.  
**Precautionary statements**

**Prevention:** Not available

**Response:** Not available

**Storage:** Not available

**Disposal:** Not available

**Supplemental  
label information:** None

### 2.3. Other hazards Not a PBT or vPvB substance or mixture.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### General information

Description	CAS ID	EINECS No.	Content in %
Glycol-modified PET (PolyEthylene Terephthalate)	-	-	>98

## 4. FIRST AID MEASURES

**General information:** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### 4.1 Description of first aid measures

#### Inhalation:

Not likely, due to the form of the product. If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if cough or other symptoms develop.

#### Skin Contact:

If burned by contact with hot material, cool molten material adhering to skin as quickly as possible with water, and see a physician for removal of adhering material and treatment of burn. Do not peel polymer from the skin.

#### Eye contact:

Not likely, due to the form of the product. If hot product contacts eye, flush with water for at least 15 minutes and seek medical attention immediately.

#### Ingestion:

Not likely, due to the form of the product.

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

Exposure may cause temporary irritation, redness, or discomfort.

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

Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**General fire hazards:** No unusual fire or explosion hazards noted.

### 5.1 Extinguishing media:

**Suitable extinguishing media:**

Water fog, Foam, dry chemical powder, Carbon dioxide (CO<sub>2</sub>)

**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:

During fire, gases hazardous to health may be formed (CO, CO<sub>2</sub>)

### 5.3 Advice for firefighters

**Special protective ve  
equipment for firefighters:** Self-contained breathing apparatus and full protective  
clothing must be worn in case of fire.

**Special firefighting  
procedures:** Move containers from fire area if you can do so without risk

### 5.4. Specific methods:

Use standard firefighting procedures and consider the hazards of other involved materials

## 6. ACCIDENTAL RELEASE MEASURES

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

**For non-emergency personnel:**

Keep unnecessary personnel away.

For personal protection, see section 8 of the SDS

**For emergency responders:**

Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS

### 6.2. Environmental precautions:

Avoid discharge into drains, water courses or onto the ground

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

Stop the flow of material, if this is without risk. Following product recovery, flush area with water

### 6.4. Reference to other sections:

For personal protection, see section 8 of the SDS.

For waste disposal, see section 13 of the SDS

## 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling:

Observe good industrial hygiene practices.

### 7.2. Conditions for safe storage, including an incompatibilities:

Store in tightly container. Store away from incompatible  
Materials (see section 10 of the SDS)

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### **Occupational exposure limits:**

No exposure limits noted for ingredient(s)

#### **Biological limit values:**

No biological exposure limits noted for the ingredient(s)

#### **Recommended monitoring procedures:**

Follow the standard monitoring procedures

#### **Derived no-effect level (DNEL):**

not available

#### **Predicted no effect concentrations(PNECs):**

Not available

### 8.2. Exposure controls

#### **Appropriate engineering controls:**

Good general ventilation should be used (typically 10 air changes per hour). Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

#### **Individual protection measures, such as personal protective equipment:**

##### **General information:**

Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

##### **Eye/face protection:**

Wear safety glasses with side shields (or goggles).

##### **Skin protection:**

**Hand Protection:** wear appropriate chemical resistant gloves

**Other:** wear suitable protective clothing.

##### **Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment

##### **Thermal Hazards:**

Wear appropriate thermal protective clothing, when necessary.

##### **Hygiene measure:**

Always observe good personal hygiene measures, such as waiting after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

##### **Environmental exposure controls:**

Environmental manager must be informed of all major releases

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

#### Appearance

<b>Physical state:</b>	Solid
<b>Form:</b>	Filament
<b>Color(s):</b>	Color depends on product specification

<b>Odour:</b>	Slight
<b>Odour threshold:</b>	Not available.
<b>pH:</b>	Not available.
<b>Melting Point/Freezing point:</b>	220°C to 230°C
<b>Initial boiling point and boiling range:</b>	Not available.
<b>Flash point:</b>	Not available.
<b>Evaporation rate:</b>	Not available.
<b>Flammability(solid, gas):</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit-lower (%)</b>	Not available.
<b>Flammability limit-upper (%)</b>	Not available.
<b>Vapour pressure:</b>	Not available.
<b>Vapour density:</b>	Not available.
<b>Relative density:</b>	1.27 g/mL (25°C)
<b>Solubility (water)</b>	Insoluble.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature:</b>	Not available
<b>Decomposition temperature:</b>	Not available.
<b>Viscosity:</b>	Not available.
<b>Explosive properties:</b>	Not explosive.
<b>Oxidizing properties:</b>	Not oxidizing.

## 10. STABILITY AND REACTIVITY

<b>10.1. Reactivity:</b>	The product is stable and non-reactive under normal conditions of use, storage and transport
<b>10.2. Chemical stability:</b>	Material is stable under normal conditions
<b>10.3. Possibility of hazardous reactions:</b>	No dangerous reaction known under conditions of normal use.
<b>10.4. Conditions to avoid:</b>	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid temperatures exceeding the decomposition temperature. Contact with incompatible materials.
<b>10.5. Incompatible materials:</b>	Strong oxidizing agents
<b>10.6. Hazardous decomposition products:</b>	No hazardous decomposition products are known

## 11. TOXICOLOGICAL INFORMATION

<b>General Information:</b>	Occupational exposure to the substance or mixture may cause adverse effects.
<b>Information on likely routes of exposure:</b>	
<b>Inhalation:</b>	Based on available data, the classification criteria are not met.
<b>Skin contact:</b>	Based on available data, the classification criteria are not met.
<b>Eye contact:</b>	Based on available data, the classification criteria are not met.
<b>Ingestion:</b>	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure
<b>Symptoms</b>	Exposure may cause temporary irritation, redness, or discomfort.

### 11.1. Information on toxicological effects

<b>Acute toxicity:</b>	Not known.
<b>Skin corrosion/irritation:</b>	Based on available data, the classification criteria are not met.
<b>Serious eye damage/eye irritation:</b>	Based on available data, the classification criteria are not met.
<b>Respiratory sensitization:</b>	Based on available data, the classification criteria are not met.
<b>Skin sensitization:</b>	Based on available data, the classification criteria are not met.
<b>Germ cell mutagenicity:</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity:</b>	Based on available data, the classification criteria are not met.
<b>Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended):</b>	Not listed
<b>Reproductive toxicity:</b>	Based on available data, the classification criteria are not met.
<b>Specific target organ toxicity -single exposure:</b>	Based on available data, the classification criteria are not met.
<b>Specific target organ toxicity -repeated exposure:</b>	Based on available data, the classification criteria are not met.
<b>Aspiration hazard:</b>	Based on available data, the classification criteria are not met.
<b>Mixture versus substance information:</b>	No informatio available
<b>Other information:</b>	This product has no known adverse effect on human health.

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity:

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

### 12.2 Persistence and degradability:

Not available.

### 12.3 Bioaccumulative potential:

No data available

#### Partition coefficient n-octanol/water (log K<sub>ow</sub>):

Not available

#### Bioconcentration factor (BCF):

Not available

### 12.4 Mobility in soil:

Not a PBT or vPvB substance or mixture

### 12.5 Results of PBT and vPvB assessment:

Not a PBT or vPvB substance or mixture

### 12.6 Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

#### Residual waste:

Dispose of in accordance with local regulations

#### Contaminated packaging:

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

#### EU waste code:

The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

#### Disposal methods/ information:

Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

#### Special precautions:

Dispose in accordance with all applicable regulations.



## 14. TRANSPORT INFORMATION

<b>ADR</b>	14.1.-14.6.: Not regulated as dangerous goods
<b>RID</b>	14.1.-14.6.: Not regulated as dangerous goods
<b>ADN</b>	14.1.-14.6.: Not regulated as dangerous goods
<b>IMDG</b>	14.1.-14.6.: Not regulated as dangerous goods
<b>IATA</b>	14.1.-14.6.: Not regulated as dangerous goods
<b>14.1.-14.6. Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code:</b>	Not applicable

## 15. REGULATORY INFORMATION

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

#### EU regulations

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended:** Not listed

**Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended:** Not listed

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended:** Not listed

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended:** Not listed

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended:** Not listed

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended:** Not listed

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended:** Not listed

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA:** Not listed

## Authorizations

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended:** Not listed.

## Restrictions on use

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended:** Not listed

**Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended:** Not listed

**Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding, as amended:** Not listed

## Other EU regulations

**Directive 2012/18/EU on major accident hazards involving dangerous substances:** Not listed

## Other regulations:

The product is classified and labelled in accordance with Regulations (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

## National regulations:

Follow national regulation on the protection of workers from the risks of exposure to carcinogens and mutagens at work, in accordance with Directive 2004/37/EC.

## 15.2. Chemical safety assessment

No chemical Safety Assessment has been carried out.

## 16. Other information

<b>List of abbreviations</b>	Not available
<b>References</b>	Not available
<b>Information on evaluation method leading to the classification of mixture</b>	The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.
<b>Full text of any H-statements not written out in full under Sections 2 to 15</b>	None
<b>Revision information</b>	None
<b>Training information</b>	Follow training instructions when handling this material

Verbatim GmbH  
Düsseldorfer Str. 13  
D - 65760 Eschborn  
Germany

T: +49 (6196) 9001-0  
F: +49 (6196) 9001-20  
E: [info.germany@verbatim-europe.com](mailto:info.germany@verbatim-europe.com)

### **Disclaimer**

This safety data sheet (SDS) is issued based on the latest reference, data etc. currently available. The information in this SDS has been carefully assessed, but no guarantee is given for its accuracy. We cannot anticipate all conditions under which this product may be used. It is the user's responsibility to take appropriate safety measures for handling. Verbatim Limited cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.