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Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006
Issued December 2016

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1. Product Identifier

Trade name: Polypropylene FILAMENT for 3D PRINTER

Registration number: -

Synonyms: None

55950 VERBATIM 3D PRINTER FILAMENT PP 1.75MM 0.5KG TRANSPARENT

55951 VERBATIM 3D PRINTER FILAMENT PP 2.85MM 0.5KG TRANSPARENT

1.2. Relevant Identified Uses: 3D Printer Filament for Material Extrusion

1.3. Supplier: Verbatim GmbH

Address: Duesseldorfer Strasse 13
D- 65760 Eschborn, Germany

Email SDS@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 applies:
Classification according to Regulation (EC) No 1272/2008 as amended.
This substance 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: Not applicable

Signal Word: Not applicable

Hazard Statements: No relevant information

2.3. Other Hazards: None known

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2.4. Precautionary Statements

Safety Measures: Do not breathe dust, fume, gas or mist.

Response: Get medical attention or advice if you feel unwell.

Storage: Keep away from fire.
Store indoors at ambient temperature.

Disposal: Do not dump into sewers, on the ground or into any body of water. Burn in an adequate incinerator or bury in landfill in accordance with applicable local, state, and federal regulations.

Supplemental Label Information: None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Description	CAS ID	EINECS No.	Content in %
Ethylene·propylene co-polymer	9010-79-1	(C2H4)m·C3H6)n	100%

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:

If you feel unwell by inhalation of vapor or gas, move to fresh air and keep at rest in a position comfortable for breathing. Call a doctor if you feel unwell.

Skin Contact:

In case of contact with melted material, fully cool down by pouring plenty of water over the clothing. Then take off clothing, cover with clean gauze and get medical attention immediately. Get medical attention if appearance changes, irritating pain occurs or feeling unwell.

Eye Contact:

Immediately rinse the eye with plenty of clean running water for at least 15 minutes. Remove contact lenses, if present and easy to do. Rinse thoroughly the inner side of the eye lid. Get medical attention as soon as possible.

Ingestion:

If swallowed by accident, keep at rest and get medical attention immediately. Avoid vomit entering into respiratory tract. Do not induce vomiting unless instructed by a doctor.

Further Protective Measures

Wear appropriate protective equipment (protective glasses, protective mask, gloves, etc.). Install ventilation.

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5. FIRE-FIGHTING MEASURES

General Fire Hazards: No unusual fire or explosion hazards notec

5.1. Extinguishing media:

Suitable extinguishing media:

Water fog. Foam, dry chemical powder, Carbon dioxide (CO2).

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, hazardous gases may be formed

5.3. Special Protective Equipment for Firefighters:

Self-contained breathing apparatus and full- protective clothing must worn in case of fire.

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:	Handle in a well-ventilated area. Installation of local exhaust at 3D printer's area is recommended when many printers are operated at once. Keep away from fire (ignition source) and store at ambient temperature.
7.2. Conditions for Safe Storage, including any incompatibilities:	Protect from water, moisture and direct sunlight and store indoors at ambient temperature and well-ventilated.
7.3. Specific end use(s)	Not available

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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 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. 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).
Hand Protection:	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.
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 measures:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties:

Appearance	Solid
Physical state:	Filament
Form:	N.A.
Color:	Opaque white
Melting / freezing point:	257 - 329 °F (125 - 165 °C)
Auto ignition point (ignition point):	> 400°C (Estimation)
Specific gravity (relative density):	0.88 – 0.91 g/cm³
Solubility (water):	Insoluble

10. STABILITY AND REACTIVITY

10.1.	**Reactivity:**	The product is stable and non-reactive under normal conditions of use, storage and transport.
10.2.	**Chemical stability:**	Material is stable under normal conditions.
10.3.	**Possibility of hazardous reactions:**	No dangerous reaction known under conditions of normal use.
10.4	**Conditions to avoid:**	Flammable by ignition sources. It decomposes at temperature of 300 °C and above.
10.5.	**Incompatible materials:**	No data available.
10.6.	**Hazardous decomposition products:**	During decomposition carbon monoxide, carbon dioxide, carbon hydride, oxidized carbon hydride and other oxidation products (aldehyde, acid, alcohol etc.) are generated.

11. TOXICOLOGICAL INFORMATION

General information: Occupational exposure to the substance or mixture may cause adverse effects.

11.1. Information on toxicological effects:

Acute toxicity:	No data available
Skin corrosion/irritation:	Not classified
Serious eye damage/eye irritation:	There is no acridity to the eye.
Respiratory sensitization:	Not classified

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12. ECOLOGICAL INFORMATION

12.1.	**Toxicity:**	No Classification
12.2.	**Persistence and degradability:**	No data is available on the degradability of this product
12.3.	**Bioaccumulative potential:**	No data available
	Partition coefficient n-octanol/water (log Kow):	Not available
	Bio concentration factor (BCF):	Not available
12.4.	**Mobility in soil:**	No data available
12.5.	**Results of PBT and vPvB assessment:**	Not available
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
EU waste code:	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods/information:	Do not dump into sewers, on the ground or into any body of water. Burn in an adequate incinerator or bury in landfill in accordance with applicable regulations.
Special precautions:	Dispose in accordance with all applicable regulations.

14. TRANSPORT INFORMATION

Regulatory Body:	**Special Provisions:**
ADR	Not regulated as dangerous goods
RID	Not regulated as dangerous goods
AND	Not regulated as dangerous goods
IMDG	Not regulated as dangerous goods
IATA	Not regulated as dangerous goods
Transport in bulk according to Annex II of Marpol and the IBC Code:	Not applicable

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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
Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended: Not listed
Directive 94/33/EC on the protection of young people at work, as amended: Not listed

Other regulations:

The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

National regulations:

Follow national regulation for work with chemical agents.

15.2. Chemical safety assessment: No Chemical Safety Assessment has been carried out

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16. Other information

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.