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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:** Primalloy Filament for 3D Printer  
**Registration number:** -  
**Synonyms:** None

**55500 VERBATIM 3D PRINTER FILAMENT PRIMALLOY 1.75MM 500G WHITE**  
**55501 VERBATIM 3D PRINTER FILAMENT PRIMALLOY 2.85MM 500G WHITE**

**1.2. Relevant identified uses:** 3D Printer Filament for Material Extrusion type

**1.3. Brand** Verbatim

**1.4. Supplier:** Mitsubishi Kagaku Media Co., LTD.

**Address:** Daini Ryumeikan Bldg. 8F 3-20, Kandaogawmachi,  
Chiyoda-ku, Tokyo 101-0052, Japan

**Email** SDS@verbatim-europe.com

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

1

## 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:** The mixture does not meet the criteria for classification.

**Other hazards:** None known

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### 2.3. Precautionary statements

**Safety measures:** Do not breathe dust/fume/gas/mist.  
**Response:** Get medical attention/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 %	
Resin compound with polyestheric thermoplastic elastomer as the main	Not disclosed	Not disclosed	100 %	2

### 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.

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**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, hazardous gases may be formed.

**5.3 Special protective equipment for firefighters:**

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

3

**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 7,8 & 11, 12 and 13 of the SDS.

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## 7. HANDLING AND STORAGE

- 7.1. Precautions for safe handling:** Handle in a well-ventilated area. Installation of local exhaust at 3D printers area is recommended when many printers are operated at once. Keep away from fire (ignition source) and store at ambient temperature
- 7.2. Storage:** Keep containers tightly closed in a dry and cool place. Protect from water, moisture and direct sunlight and store indoors at ambient temperature and well-ventilated. Keep away from oxidizing agents and strongly acid or alkaline materials. Keep away from food, drink and animal feeding stuffs.
- 7.3. Storage Temperature:**  $\leq 40\text{ }^{\circ}\text{C}$
- 7.4. Other Data:** No decomposition if stored and applied as directed.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

**Occupational exposure limits:**

No exposure limits noted for ingredient(s)

**Recommended monitoring procedures:**

Follow the standard monitoring procedures

### 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.

### 8.3. 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).

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#### 8.4. Skin protection:

##### 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.

#### 8.5. 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.

##### Environmental exposure controls:

Environmental manager must be informed of all major releases.

5

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

#### Appearance:

<b>Physical state:</b>	Solid Filament Shape
<b>Colour(s):</b>	Opaque white
<b>Odor:</b>	Slight odor
<b>Melting Point Range:</b>	175°- 195 °C
<b>(auto) Ignition point</b>	➤ 300 °C
<b>Auto ignition temperature:</b>	968 °F (520 °C)
<b>Solubility in water:</b>	Insoluble
<b>Specific gravity (relative density):</b>	1.08 to 1.10 g/cm <sup>3</sup>

## 10. STABILITY AND REACTIVITY

### 10.2. Stability (possibility of hazardous reactions):

Stable under normal storing/handling conditions.  
The product is stable at ambient temperature. It decomposes at temperature of 300 oC and above where carbon hydride and other oxidation products (aldehyde, acid, alcohol etc.) are generated.

**Self-reactivity:** None

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## 11. TOXICOLOGICAL INFORMATION

**Other:** Acute toxicity: Unknown

## 10. ECOLOGICAL INFORMATION

Handle with care when releasing or disposing of the product because it may cause effect to the environment. Do not dispose of or release to the sea and water area to avoid intake by marine organism or birds.

**12.4 Mobility in soil:** No data available

**12.5. Results of PBT and vPvB assessment:** Not available

**12.6. Other adverse effects  
Additional ecological information:**

This product does not contain the ingredients that are listed in the Annex to the Montreal Protocol.

## 11. 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.

**Water this product  
solved:** Dispose of waste in accordance with applicable local, regional and international regulations and standards. Do not exceed 1mg/L in a river which the waste liquid flow into when it is disposed of from a drain as water solution. Also, it should be diluted with water by at least 20 times when disposed of. It can be disposed of as water solution in a day with maximum 2kg as itself.

## 12. TRANSPORT INFORMATION

Regulatory Body	Special Provisions
<b>ADR</b>	Not regulated as dangerous goods
<b>RID</b>	Not regulated as dangerous goods
<b>AND</b>	Not regulated as dangerous goods
<b>IMDG</b>	Not regulated as dangerous goods
<b>IATA</b>	Not regulated as dangerous goods
<b>Special precautions for user:</b>	See chapter: 6, 7 and 8.

6

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## 13. 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

7

#### 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



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### 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.

### 13.3. Chemical safety assessment:

No Chemical Safety Assessment has been carried out

### 14. Other information

8

<b>List of abbreviations</b>	Not available
<b>References</b>	GESTIS Substance Database
	ACGIH: Documentation of the Threshold Limit Values and Biological Exposure Indices
	EPA AQUIRE database
	HSDB®: Hazardous Substances Data Bank
	IARC Monographs: Overall Evaluation of Carcinogenicity Raw material safety data sheet (SDS)

### Information on evaluation method leading to the classification of mixture

Not available

### Full text of any H-statements not written out in full under Sections 2 to 15

None

### 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.