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

Material Safety Data Sheet

Issued February 2020

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Trade name: ABS FILAMENT for 3D PRINTER
Registration number: -
Synonyms: None

55026	Verbatim ABS Filament 1.75mm-Black
55027	Verbatim ABS Filament 1.75mm-White
55028	Verbatim ABS Filament 1.75mm-Natural
55029	Verbatim ABS Filament 1.75mm-Blue
55030	Verbatim ABS Filament 1.75mm-Red
55031	Verbatim ABS Filament 1.75mm-Green
55032	Verbatim ABS Filament 1.75mm-Silver
55033	Verbatim ABS Filament 2.85mmm-Black
55034	Verbatim ABS Filament 2.85mmm-White
55035	Verbatim ABS Filament 2.85mmm-Natural
55036	Verbatim ABS Filament 2.85mmm-Silver

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

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

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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	Content in %
Acrylonitrile Butadiene Styrene resin	9003-56-9	90-100 %
Other components below reportable levels		1-<3

Composition comments: The full text for all H-statements is displayed in section 16

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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 15minutes 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.

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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_2)

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

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:

Sweep up or vacuum up spillage and collect in suitable container for disposal. For waste disposal see section 13 of the SDS

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)

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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 the standard monitoring procedures
Derived no-effect level (DNELs):	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).

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:

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 gave not been established, maintain airborne levels to an acceptable level.

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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	
Physical state:	Solid
Form:	Filament
Color(s):	Color depends on product specification
Odour:	Slight
Odour threshold:	Not available.
pH:	Not available.
Melting Point/Freezing point:	>100°C (>212°F)
Initial boiling point and boiling range:	Not available.
Flash point:	Not available.
Evaporation rate:	Not available.
Flammability(solid, gas):	Not available.
Upper/lower flammability or explosive limits	
Flammability limit-lower (%)	Not available.
Flammability limit-upper (%)	Not available.
Vapour pressure:	Not available.
Vapour density:	Not available.
Relative density:	Not available.
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature:	Not available.
Decomposition temperature:	>300°C (>572°F)
Viscosity:	Not available.
Explosive properties:	Not explosive.
Oxidizing properties:	Not oxidizing.

9.2. Other information

Density	1.04g/cm^3

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:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with incompatible materials.
10.5. Incompatible materials:	Strong oxidizing agents
10.6. Hazardous decomposition products:	No hazardous decomposition products are known.

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11.TOXICOLOGICAL INFORMATION

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

Information on likely routes of exposure:

Inhalation: Based on available data, the classification criteria are not met.

Skin contact: Based on available data, the classification criteria are not met.

Eye contact: Based on available data, the classification criteria are not met.

Ingestion: May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure

Symptoms Exposure may cause temporary irritation, redness, or discomfort.

11.1. Information on toxicological effects

Acute toxicity: Not known.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Respiratory sensitization: Based on available data, the classification criteria are not met.

Skin sensitization: Based on available data, the classification criteria are not met.

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended): Not listed

Reproductive toxicity: Based on available data, the classification criteria are not met.

Specific target organ toxicity -single exposure: Based on available data, the classification criteria are not met.

Specific target organ toxicity -repeated exposure: Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

Mixture versus substance information: No information available

Other information: This product has no known adverse effect on human health.

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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:

Bioconcentration factor (BCF):	Not available
12.4 Mobility in soil:	No data available
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.

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14.TRANSPORT INFORMATION

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

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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
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 for work with chemical agents in accordance with Directive 98/24/EC, as amended.

15.2. Chemical safety assessment

No chemical Safety Assessment has been carried out.

16. Other information

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

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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.