



# SAFETY SHEET FILAMENT | ABS ULTRA

V 1.0 | 09-07-2019

**VOLUMIC**  
IMPRIMANTES 3D

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. PRODUCT IDENTIFIER

Trade name or designation of the mixture : ABS ULTRA  
Registration number : -  
Synonyms : None.

### 1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Identified uses : 3D printer filament  
Uses advised against : None known.

### 1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Company name : VOLUMIC 3D  
Address : 12bis Rue Louis GARNERAY - 06300 NICE - FRANCE  
Telephone : +33 9 500 27 400  
E-mail : info@volumic3d.com

### 1.4. EMERGENCY TELEPHONE NUMBER

France : ORFILA (INRS) : +33 (0)1 45 42 59 59  
Belgique : +32 02/264 96 36

## SECTION 2: HAZARDS IDENTIFICATION

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

Hazard summary : Not available.

### 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.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. MIXTURES



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The components are not hazardous or are below required disclosure limits.  
Composition comments : The full text for all H -statements is displayed in section 16.

## SECTION 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.

## SECTION 5: FIREFIGHTING 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.

### 5.3. ADVICE FOR FIREFIGHTERS

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

Special fire fighting procedures Use water spray to cool unopened containers.

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

## SECTION 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.



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## 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.

## SECTION 7: HANDLING AND STORAGE

### 7.1. PRECAUTIONS FOR SAFE HANDLING

Observe good industrial hygiene practices.

### 7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

### 7.3. SPECIFIC END USE(S)

Not available.

## SECTION 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 levels (DNELs) : Not available.  
Predicted no effect concentrations (PNECs) : Not available.

### 8.2. EXPOSURE CONTROLS

Appropriate engineering controls Good general ventilation (typically 10 air changes per hour) 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.



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### 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.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance

Physical state : Solid.  
Form : filament  
Colour : Color depends on product specification

Odour : Slight.  
Odour threshold : Not available.  
pH : Not available.  
Melting point/freezing point : Not available.  
Initial boiling point and boiling range 140 - 170 °C (284 - 338 °F)  
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 :  $\pm 1.10$  g/cc

Solubility(ies)  
Solubility (water) : Insoluble  
Partition coefficient (n-octanol/water) : Not available.

Auto-ignition temperature : Not available.  
Decomposition temperature :  $> 280$  °C ( $> 536$  °F)  
Viscosity : Not available.  
Explosive properties : Not explosive.  
Oxidising properties : Not oxidising.

### 9.2. OTHER INFORMATION

No relevant additional information available.

## SECTION 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



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Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid temperatures exceeding the decomposition temperature. Contact with incompatible materials.

## 10.5. INCOMPATIBLE MATERIALS

Strong oxidising agents.

## 10.6. HAZARDOUS DECOMPOSITION PRODUCTS

No hazardous decomposition products are known.

## SECTION 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 sensitisation : Based on available data, the classification criteria are not met.

Skin sensitisation : 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.

## SECTION 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

No data is available on the degradability of any ingredients in the mixture.

### 12.3. BIOACCUMULATIVE POTENTIAL

Partition coefficient n-octanol/water (log Kow) : Not available.

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. Not available.



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## 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.

## SECTION 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.

## SECTION 14: TRANSPORT INFORMATION

ADR 14.1. - 14.6.: Not regulated as dangerous goods.

RID 14.1. - 14.6.: Not regulated as dangerous goods.

AND 14.1. - 14.6.: Not regulated as dangerous goods.

IATA 14.1. - 14.6.: Not regulated as dangerous goods.

IMDG 14.1. - 14.6.: Not regulated as dangerous goods.

### 14.7. TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE

Not applicable.

## SECTION 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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#### Authorisations

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, as amended  
Not listed.

#### Other regulations

The product is classified and labelled in accordance with Regulation (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.

## SECTION 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 : Follow training instructions when handling this material.

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.