



# SAFETY SHEET FILAMENT | MEDICAL ULTRA

V 1.0 | 18-12-2018

**VOLUMIC**  
IMPRIMANTES 3D

Following laws (CE) n° 1907/2006, Article 31

## SECTION 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND COMPANY RESPONSIBLE FOR PRODUCT MANUFACTURING / MARKETING:

### 1.1 IDENTIFICATION

MEDICAL ULTRA

### 1.2 FORMS OF USE

Filament for FFF/FDM technology based 3D printing.

### 1.3 COMPANY

VOLUMIC 3D  
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06300 NICE - France

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### 1.3 EMERGENCY PHONE:

112

## SECTION 2. HAZARDS IDENTIFICATION

### 2.1 CLASSIFICATION

Classification according to Regulation (EC) No 1272/2008: The product is not classified according to the CLP regulation.

Classification according to the directive 67/548/CEE or Directive 1999/45/CE: Not classified.

Classification System: Not required to identify the product according to the calculation procedure in the latest valid version of the «General Classification guideline for preparations of the EU»

### 2.2 LABEL ELEMENTS

Labelling according to EC guidelines:

The product is not subject to classification according to the calculation methods of the «General Classification Guideline for Preparations of the EU» as issued in the latest valid version.

Usual preventive measures should be considered for the manipulation of chemical products.

### 2.3 OTHER HAZARDS

Results of the valuation PBT y mPmB  
PBT: Non-applicable  
mPmB: Non-applicable

## SECTION 3. COMPOSITION

ABS (Acrylonitrile-Butadiene-Styrene) – 99% CAS:9003-56-9

### 3.1 CHEMICAL CHARACTERIZATION: MIXES





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Description: Polymer  
Dangerous components: Non-applicable.  
Other components: Non-applicable

## SECTION 4. FIRST AIDS:

### 4.1 DESCRIPTION OF FIRST AIDS

General instruction:  
Change clothes impregnated with the product.

In case of inhalation:  
Supply fresh air. In case of disturbances, consult a doctor.  
After inhalation of decomposition products, breathe fresh air, rest, seek medical help.

In case of skin contact:  
Wash with soap and water. Visit your doctor if irritation continues skin.  
After contact with molten product, cool rapidly with cold water. No skin separating the solidified product. Call a doctor immediately.

In case of eye contact:  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. Remove contact lenses, if present and easy. Continue rinsing.

If swallowed:  
Rinse mouth and drink plenty of water. Do not induce vomiting.  
Consult doctor in case of persistent symptoms.

### 4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED.

There is not relevant information available.

### 4.3. INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED IMMEDIATELY

There is not relevant information available.

## SECTION 5. FIREFIGHTING MEASURES:

### 5.1 SUITABLE EXTINGUISHING MEDIA

Any method is applicable

### 5.2. UNSUITABLE EXTINGUISHING MEDIA FOR SAFETY REASONS

Throw water with strong pressure.  
Carbon dioxide CO<sub>2</sub>

### 5.3 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Formation of toxic gases if heated or fire.  
Irritant gases / vapors.  
During a fire, they can be released:  
Smoke  
Carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>)  
Hydrocarbons  
Hydrogen cyanide (HCN)  
Under certain conditions, during the fire may traces of other toxic materials.  
In case of accidental dispersion: Personal precautions.

### 5.4 ADVICE FOR FIREFIGHTERS

Protective equipment: Wear protective breathing apparatus independent of the ambient air.



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## SECTION 6. MEASURES IN CASE OF ACCIDENTAL RELEASE

### 6.1 PERSONAL PRECAUTIONS,

Protective equipment and emergency procedures  
Avoid dust formation.  
Do not breathe dust.  
Keep away from sources of ignition.  
Avoid eye contact.  
Danger of slipping on spilled product or pouring.

### 6.2 ENVIRONMENTAL CAUTIONS:

Do not discharge into drains / surface water / ground water.

### 6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:

Allow to solidify, pick up mechanically  
Dispose of the material collected according to regulations.

## SECTION 7. HANDLING AND STORAGE:

### 7.1. PRECAUTIONS FOR SAFE HANDLING

Ensure good ventilation / exhaustion at the workplace.  
Avoid dust formation.  
Do not inhale fumes / dust produced.  
Remove regularly dust that inevitably form.  
Avoid contact with the eyes and skin.  
Complying value / it is of the CMA.  
Avoid contact with the product | heat.

Prevention of fire and explosion:  
Protect against electrostatic charges.  
Keep away from sources of ignition - No smoking.  
Protect from heat.  
The enrichment of fine dust in presence of air can lead to danger of dust explosion.

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

Requirements to be met by storerooms and receptacles:  
Kee in dry place  
Protect from direct sunlight  
Store between 10-40C°  
Standards in one common storage facility: Not required  
Further information about storage conditions: Store it in a tightly sealed container in a cool, dry place.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Additional information about design of technical facilities:  
No additional data, consult section 7.

### 8.1 CONTROL PARAMETERS

Components with admissible limit values that require monitoring at the workplace: Do not exceed the values for dust concentration.  
Additional information: Based on references valid at the time of processing

### 8.2 PERSONAL PROTECTION EQUIPMENT.

General safety and hygiene:



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Keep away from foodstuffs, beverages, and food.  
Do not eat, drink, smoke, or sniff snuff during work.  
Do not breathe dust / smoke / mist.  
Avoid contact with eyes and skin.  
Wash hands before breaks and after work.

**Breathing equipment:**

Surely concentrations below the value of the CMA does not require special measures.

**Protection of hands:**

For use of chemical protective gloves is required.  
For handling product, I heat / cast heat resistant gloves.

**Eye protection:**

Protection glasses

**Body protection:**

For handling, hot / molten heat resistant protective clothing product.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES :

Appearance: Natural color (white-yellow)  
Odor: Odorless  
Odour Threshold: NA  
pH: NA  
Boiling Point (° C): NA  
Melting point (° C): 120-240  
Softening point (° C): 100  
Evaporation Rate: NA  
Properties Flammable / Explosive: NA  
Vapor pressure / vapor density: NA  
Relative density: 1.05  
Solubility: Acetone  
Octanol / water partition: NA  
Auto-ignition temperature: NA  
Decomposition temperature: NA  
Viscosity: NA  
Other properties: NA

## SECTION 10. STABILITY AND REACTIVITY

### 10.1 REACTIVITY

Non-applicable

### 10.2 CHEMICAL STABILITY

Thermal decomposition / conditions to be avoided:  
No decomposition with storage and proper handling.  
Avoid impact, friction, heat, sparks, and electrostatic charges.

### 10.3 POSSIBILITY OF DANGEROUS REACTIONS.

Non-applicable.

### 10.4 CONDITIONS TO BE AVOIDED

No further relevant information.

### 10.5 INCOMPATIBLE MATERIALS

Strong oxidants.

### 10.6 STRONG DECOMPOSITION PRODUCTS



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Irritant gases / vapours.  
Toxic gases / vapours.  
Smoke.  
Carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>) emissions

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

Not applicable

Primary irritant effect:

on the skin: Dust may cause mechanical irritation.

In the eye: Dust may cause mechanical irritation.

Sensitization: No sensitizing effects known.

Subacute to chronic toxicity: no data

Additional toxicological information: According to our experience and the information we have about the product does not cause any adverse health effects when handled properly and used for the purposes specified. CMR effects (carcinogenicity, mutagenicity, and toxicity for reproduction).

Based on current information, it is known that no CMR effects.

## SECTION 12. ECOLOGICAL INFORMATION

### 12.1 ECOTOXICITY

It is not expected to be very toxic, but if ingested by birds or aquatic life, can cause adverse mechanical effects

### 12.2 MOBILITY

Bioconcentration is not expected because of the high molecular weight (MW > 1000).

In the terrestrial environment, material is expected to remain in the soil. In the aquatic environment material will sink and remain in the sediment.

### 12.3 PERSISTENCE AND DEGRADABILITY

This solid water-insoluble polymeric are expected to be inert in the environment. Surface degradation is expected with exposure to sunlight. Appreciable biodegradation is not expected.

### 12.4 ADDITIONAL ECOLOGICAL INFORMATION

General instructions: CPA 1 (auto classification): not dangerous for water.

### 12.5 RESULTS OF PBT Y MPMB

PBT: Non-applicable.

mPmB: Non-applicable.

## SECTION 13 DISPOSAL CONSIDERATIONS

### 13.1 METHODS FOR TREATING WASTE

Recommendation: Disposal according to official regulations.

European waste catalog (EWC):

Allocation of waste codes according to the European waste list depends on the source generating the waste.

Contaminated packaging:

Recommendation: Disposal according to official regulations.

## SECTION 14 TRANSPORT INFORMATION

Not regulated.



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## SECTION 15 REGULATORY INFORMATION

Not regulated.

## SECTION 16 OTHER INFORMATION

The data is based on the current state of knowledge, but it is not a guarantee of the product features and it is not legally valid in a contractual relationship.

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