

ABS Kevlar Filament

1 Chemical product and company information

a Article name	ABS KEVLAR
b Usage	Industrial use, Professional use, Consumer use.
c Uses advised against	No additional information available
d Company information	3D4Makers BV, Waarderweg 56, 2031 BP Haarlem, The Netherlands
e Telephone number	+ 31 (0) 238200584

2 Hazards identification

Not applicable	To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.
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3 Composition/information on ingredients

a Mixture	Acrylonitrile Butadiene Styrene / aramid fibers
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4 First aid measures

a Description of first aid measures

First-aid measures general	Call a poison center or a doctor if you feel unwell.
First-aid measures after inhalation	If you feel unwell, seek medical advice. Assure fresh air breathing
First-aid measures after skin contact	Get medical advice/attention. Do not pull solidified product away from the skin. In the event of contact with molten product : Immediately rinse with plenty of water (for at least 15 minutes).
First-aid measures after eye contact	Rinse immediately with plenty of water. Consult an eye specialist. Remove contact lenses, if present and easy to do. Continue rinsing.

b Most important symptoms and effects, both acute and delayed

Symptoms/effects	None under normal conditions
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c Indication of any immediate medical attention and special treatment needed

No additional information available

5 Firefighting measures

a Extinguishing media

Suitable extinguishing media Cool down the containers exposed to heat with a water spray. Carbon dioxide. Water spray. Foam.

b Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire Thermal decomposition generates : Carbon oxides (CO, CO₂). Do not breathe fumes.

c Advice for firefighters

Precautionary measures fire Evacuate unnecessary personnel.

Firefighting instructions Do not enter fire area without proper protective equipment, including respiratory protection. Use water spray or fog for cooling exposed containers.

Protection during firefighting Do not attempt to take action without suitable protective equipment

6 Accidental release measures

a Personal precautions, protective equipment and emergency procedures

General measures If spilled, may cause the floor to be slippery. Access forbidden to unauthorised personnel.

b For non-emergency personnel

No additional information available

c For emergency responders

No additional information available

d Environmental precautions

Avoid release to the environment.

e Methods and material for containment and cleaning up

For containment Collect spillage.

f Reference to other sections

No additional information available

7 Handling and storage

a Precautions for safe handling

Precautions for safe handling	Ensure good ventilation of the work station. Avoid dust formation
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b Conditions for safe storage, including any incompatibilities

Technical measures	Keep in a cool, well-ventilated place away from heat.
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Storage conditions	Protect from moisture. Keep away from ignition sources. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
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c Specific end use(s)

No additional information available

8 Exposure controls/personal protection

a Control parameters

No information available

b Exposure controls

Appropriate engineering controls	Risk of thermal burns on contact with molten product. Do not breathe dust. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
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Hand protection	Protective gloves
Eye protection	Wear closed safety glasses
Skin and body protection	Wear suitable protective clothing
Other information	Do not eat, drink or smoke when using this product. The substance must be handled in accordance with good industrial hygiene and safety procedures.

9 Physical and chemical properties

a Information on basic physical and chemical properties

Physical state	Solid
Colour	Black.
Odour	No data available.
Odour threshold	No data available.
pH	No data available.
Relative evaporation rate (butylacetate=1)	No data available.
Melting point	No data available.
Freezing point	No data available.

Boiling point	No data available.
Flash point	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Flammability (solid, gas)	No data available.
Vapour pressure	No data available.
Relative vapour density at 20 °C	No data available.
Relative density	No data available.
Density	≈ 1 g/cm ³
Solubility	not soluble in water.
Log Pow	No data available.
Viscosity, kinematic	No data available.
Viscosity, dynamic	No data available.
Explosive properties	No data available.
Oxidising properties	No data available.
Explosive limits	No data available.

b Other information No additional information available

10 Stability and reactivity

a Reactivity

Stable under normal conditions.

b Chemical stability

Stable. Flammable.

c Possibility of hazardous reactions

No additional information available.

d Conditions to avoid

Above a temperature of 300°C

e Incompatible materials

Strong oxidizers.

f Hazardous decomposition products

Carbon dioxide. Carbon monoxide. Fume.

11 Toxicological information

No additional information available

12 Ecological information

No additional information available

13 Disposal considerations

a Waste treatment methods

Waste treatment methods

Must follow special treatment according to local regulation

Product/Packaging disposal recommendations

Disposal must be done according to official regulations. Comply with applicable regulations for solid waste disposal.

14 Transport information

No additional information available

15 Regulatory information

No additional information available.

16 Other information

No additional information available.

Disclaimer: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product