

SAFETY DATA SHEET

by EP and Council Regulation (EC) No 1907/2006 (REACH)

PRODUCT NAME: ABS Extrafill

Revision date: 1.9.2014/1

1 Identification of the substance / preparation and company / undertaking

1.1 Identification of the substance / preparation

Product name: ABS Extrafill

Other Name: Not listed

Registration number: Not applicable for objects

1.2 Application

Filaments for 3D printing

Intended Use: Designed for professional / industrial use.

1.3 Manufacturer / Supplier:

PARZLICH s.r.o

Nám. Míru 1217

768 24 Hulín

IČ: 29233275

Tel.: +420 570 570 515

Fax.:+420 573 505 011

info@parzlich.cz

2 Hazards Identification

2.1 Classification of the substance or mixture

Subject is not classified as hazardous pursuant to Act No. 356/2003 Coll., As amended

The most important adverse physicochemical properties and effects on human health and the environment

He has hazardous effects on human health and the environment.

2.2 Label elements

The course does not require labeling in accordance with Act No. 356/2003 Coll., As amended.

2.3 Other hazards

Not specified.

3 Composition / information on ingredients

3.1 Substances

The product is a mixture of several polymers.

Subject does not contain any hazardous ingredients at concentrations higher than the limit for which it is necessary to classify.

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4 First aid

4.1 Description of first aid

In case of accident or unconscious, consult a doctor.

Inhalation

Take the victim to fresh air, rest.

Skin Contact

Wash skin with water. In case of contact with molten product, cool the skin rapidly with water and seek medical advice.

Eye Contact:

Not applicable.

Ingestion:

Induce vomiting. Rinse mouth with water. Seek medical advice if necessary.

4.2 Most important acute and delayed symptoms and effects

Symptoms of exposure: respiratory tract irritation, cough.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: First aid, decontamination, treatment of symptoms.

5 Fire fighting measures

5.1 Extinguishing media

Suitable extinguishing agents used by the surrounding fire - water, foam, carbon dioxide.

Unsuitable extinguishing agents: Water with full jet.

5.2 Special hazards arising from the substance or mixture

Combustion products: carbon monoxide (CO), carbon dioxide (CO₂), nitrogen oxides (NO_x), hydrogen cyanide and water. Escaping vapors condense water. Skin burns caused by molten material must be treated. The course is flammable.

5.3 Advice for fire fighters

Insulated breathing apparatus (EN 137).

Contaminated extinguishing water must not be discharged into drains.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove sources of ignition and open flame. Follow the usual measures to prevent forest fires.

6.2 Measures for environmental protection

No special measures are required.

6.3 Methods and materials for containment and cleaning up

Mechanically pouch.

6.4 Reference to other sections

Refer also to the provisions of sections 8 and 13 of this sheet.

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7 Handling and storage

7.1 Precautions for safe handling

Avoid prolonged or repeated contact with skin. Recommended for sufficient ventilation / suction at the workplace. Flammable product. Follow the usual measures to prevent forest fires. Store in dry conditions. After completion of work, wash hands and face with soap and water. When using do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities and mixtures

Store in original container protected from excessive heat, direct sunlight, dust and condensed water.

- 1) Do not unpack the string if you do not immediately need
 - 2) Store in a cool dry place 2-30 ° C
 - 3) Do not expose to direct sunlight and UV radiation
 - 4) If you string a longer period of time, insert the cord back into the container with silica gel moisture-
 - 5) Use within 12 months from delivery
- Avoid direct contact with food.

7.3 Specific end / specific end uses

Specific application is listed in the instructions for use on the label of the product packaging or in the product documentation.

8 Exposure controls / personal protection

8.1 Exposure limits:

8.2 Exposure: -

8.2.1 Occupational exposure: Technical measures - general and local ventilation, if effective dust extraction, encapsulation

8.2.1.1 Protection Respiratory During inhalation of dust anti-air respirator, Fire breathing apparatus.

8.2.1.2 Protection of hands: protective gloves

8.2.1.3 Eye protection: protective goggles

8.2.1.4 Skin protection: Work clothing, closed shoes

8.2.2 Environmental exposure controls:

See Act No. 201/2012 Coll. of the Clean Air Act No 254/2001 Sb. the waters. as amended

9 Physical and chemici properties

9.1 Information on basic physical and chemical properties

Physical State / Appearance: Solid, natural or colored string

Odor: Specific

Odour threshold: Data not available

pH: Data not available

Melting / freezing point: > 105 °C

Initial boiling point and boiling range: Data not available

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Flash point:	Data not available
Evaporation rate:	Data not available
Flammability (solid, gas):	Data not available
Explosion limits:	45 g/cm ³
Density 20 ° C:	1,03 - 1,10 g/ cm ³
Vapor density:	Data not available
Relative density:	45 g/cm ³ (DIN 51757)
Solubility:	The water-insoluble
Auto-ignition temperature:	404 °C
Decomposition Temperature:	466 °C
Viscosity:	Data not available
Explosive properties:	Data not available
Oxidizing properties:	Data not available

10 Stability and reactivity

10.1 Reactivity

No known reactive substances with which a product could be exposed to during transportation, storage and use.

10.2 Chemical stability

Under normal environmental conditions during storage and handling.

10.3 Possibility of hazardous reactions

Hazardous polymerization does not arise.

10.4 Conditions to avoid

Heating above the decomposition temperature.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases CO, CO₂ and nitrogen oxides.

11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity

- LD50 , oral, rat (mg.kg-1):	Data not available
- LD50, dermal, rat or rabbit (mg.kg-1):	Data not available
- LC50, inhalation, rat (mg.l-1):	Data not available

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Irritation

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

Corrosion

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

Sensitization

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

Repeated dose toxicity

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

Carcinogenic

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

Mutagenicity

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

Toxicity for reproduction

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

More information

Based on our experience and information in the event handling needs and intended use does not have harmful effects on human health.

12 Ecological informatik

12.1 Toxicity

- | | |
|--|--------------------|
| - LC50, 96 hod., fish(mg.l-1): | Data not available |
| - EC50, 48 hod., crustaceans (mg.l-1): | Data not available |
| - IC50, 72 hod., algae (mg.l-1): | Data not available |

12.2 Persistence and degradability

It can be assumed that the polymer is inert. Photochemical degradation occurs on the surface under sunlight.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB

Data are not available.

12.6 Other adverse effects

Data are not available.

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13 Disposal considerations

13.1 Waste treatment methods

Part numbers of the types of waste classifies the user based on the application of the product and other matters in the catalog of waste.

Recommended method of disposal for legal entities and natural persons authorized to do business:

Any unused product and contaminated packaging store in labeled containers for waste collection and labeled waste hand over to the person entitled to dispose of the waste (a specialized company), which is authorized for this activity.

Legislation on waste

Act No. 185/2001 Coll. on waste, as amended. If this product and its packaging waste, the final user to assign appropriate waste code according to Decree No. 381/2001 Coll. as amended. Act No. 477/2001 Coll. on packaging, as amended.

14 Transport Information

Not regulated for transport of dangerous goods (ADR).

14.1 OSN number	Not regulated
14.2 Name for shipment OSN	Not regulated
14.3 Class / Transport hazard class	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	No
14.6 Special precautions for user	Unknown

15 Regulatory information

15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture

Regulation of the European Parliament and Council Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Regulation of the European Parliament and Council Regulation (EC) No 453/2010 amending Regulation of the European Parliament and Council Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Regulation of the European Parliament and Council Regulation (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures (CLP)

Act No. 258/2000 Coll. the protection of public health, as amended

Act No. 201/2012 Coll. Air Protection, as amended

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Act No. 254/2001 Coll. the waters, as amended

15.2 Chemical Safety Assessment

It was a chemical safety assessment.

16 Other information

Key literature references and sources for data

Information contained herein is based on our best knowledge and current legislation. MSDS has been further elaborated on the basis of the original safety data sheet provided by the manufacturer.

List of R-phrases, hazard statements, safety phrases and / or precautionary statements used in the safety data sheet

No.

Guidelines for training

Labour Code, the current wording

More information

The product should not be used for any purpose other than that for which it is intended. As the specific conditions of use are beyond control of the supplier, it is the responsibility of the user to adapt the warnings to local laws and regulations. Safety information describes the product in terms of safety and can not be considered as technical information about the product.