

# SAFETY DATA SHEET

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

**PRODUCT NAME: ASA filament**

Revision date/ver: 13.5.2016/2

## **1 Identification of the substance / preparation and company / undertaking**

### **1.1 Identification of the substance / preparation**

Product name: ASA filament

Other Name: Not listed

Registration number: Not applicable for objects

### **1.2 Application**

Strings 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](mailto:info@parzlich.cz)**

## **2 Hazards Identification**

### **2.1 Classification of the substance or mixture**

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

He does not has hazardous effects on human health and the environment.

### **2.2 Other hazards**

Not specified.

## **3. Composition / information on ingredients**

	<u>CAS č.</u>	<u>Obsah</u>
a. ASA (Acrylonitrile-Styrene-Acrylate)	26299-47-8	97 ~ 100%
b. Typical antioxidant		0 - 1%
c. Typical lubricants		0 - 2%

# SAFETY DATA SHEET

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

**PRODUCT NAME: ASA filament**

Revision date/ver: 13.5.2016/2

## **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 (CO<sub>2</sub>), nitrogen oxides (NO<sub>x</sub>), 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.

# SAFETY DATA SHEET

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

**PRODUCT NAME:** ASA filament

Revision date/ver: 13.5.2016/2

## **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:

## **9. Physical and Chemical Properties**

### **9.1 Information on basic physical and chemical properties**

State / appearance:

Solid, natural or colored string

Odor:

Specific

Odor threshold:

Data not available

pH:

Data not available

Melting point:

180 – 200 C

Initial Boiling Point and Boiling point:

Data not available

Flash point:

Data not available

# SAFETY DATA SHEET

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

**PRODUCT NAME: ASA filament**

Revision date/ver: 13.5.2016/2

Evaporation rate:	Data not available
Flammability (solid, gas):	Data not available
Specific Gravity:	1.07
Vapour density:	Data not available
Solubility in	THF, acetone
Solubility in water:	Insoluble
Viscosity:	Data not available
Explosive properties:	Data not available
Oxidation properties:	Data not available
Smell:	Nearly odorless

## **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, CO<sub>2</sub> 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

#### **Irritation**

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

#### **Corrosion**

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

# SAFETY DATA SHEET

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

**PRODUCT NAME: ASA filament**

Revision date/ver: 13.5.2016/2

## **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.

## **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

# SAFETY DATA SHEET

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

**PRODUCT NAME: ASA filament**

Revision date/ver: 13.5.2016/2

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.

## **14. Transport Information**

Not regulated for transport of dangerous goods (ADR).

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

### **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.

# SAFETY DATA SHEET

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

**PRODUCT NAME: ASA filament**

Revision date/ver: 13.5.2016/2

## **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.