

# Safety Data Sheet

## SECTION 1: Identification of the Product and the Company

### 1.1. Product identifier

**Trade name:** 1.75mm ASA filament  
2.85mm ASA filament  
3.00mm ASA filament

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### Relevant identified uses of the substance or mixture

**Use:** Thermal processing during 3D printing.

### 1.3. Details of the supplier of the safety data sheet

**Manufacturer:** Devil Design Ryszka Mateja Sp. J.  
ul. Żwirki i Wigury 65  
43-190 Mikołów, Poland  
Tax ID: 6351837318  
E-mail: office@devildesign.com

## SECTION 2: Hazard identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008

Skin sensitisation, category 1

H317: May cause an allergic skin reaction

Data based on the properties of the ingredient(s) of the mixture.

### 2.3. Other hazards

Choking risk. Inhalation of gases and vapours generated during processing is irritating to the respiratory system. Gases and vapours generated during processing are irritating to the skin and eyes.

## SECTION 3: Composition and Information on Ingredients

### 3.2. Mixtures

<b>Composition:</b>	2-propenoic acid, butyl ester, polymer with etenylbenzene and 2-propenenitrile, stabilising agents
<b>Chemical name:</b>	Acrylonitrile-styrene-acrylate copolymer
<b>Common name:</b>	ASA
<b>Type of plastic:</b>	Thermoplastic
CAS number:	26299-47-8

Data based on the properties of the ingredient(s) of the mixture. They can slightly differ, depending on the dye used.

## SECTION 4: First Aid Measures

### 4.1. Description of first aid measures

<b>General information:</b>	No special measures are required.
<b>Skin:</b>	After contact with the molten product, immediately rinse the area of contact with plenty of water for at least 15 minutes. Consult a doctor.
<b>Eyes:</b>	May cause eye irritation and corneal damage due to mechanical action. Immediately rinse the eyes with plenty of water for at least 15 minutes. Consult a doctor.
<b>Inhalation:</b>	May cause irritation of the respiratory system – expose to fresh air. Immediately consult a doctor.
<b>Ingestion:</b>	If ingested, do not induce vomiting. Immediately consult a doctor.

### 4.2. Most important symptoms and effects, both acute and delayed

Unknown.

#### 4.3. Indication of any immediate medical attention and special treatment needed

In case of any alarming symptom or accident, immediately consult a doctor.

## SECTION 5: Firefighting Measures

### 5.1. Extinguishing media

**Suitable extinguishing media:**

- Water spray
- Foam
- Carbon dioxide (CO<sub>2</sub>)
- Dry powder

**Unsuitable extinguishing media**

Suitable distinguishing media should be applied depending on the ambient conditions.

### 5.2. Special hazards arising from the substance or mixture

**Hazards combustion hazards:**

- Bicarbonates
- Monomers
- Oligomers
- Styrene
- Aldehydes
- Carbon oxide (CO)
- Carbon dioxide (CO<sub>2</sub>)
- Nitrogen oxides (NO<sub>x</sub>)
- Sulphur oxides
- Acetone
- Alcohols
- Hydrogen cyanide

### 5.3. Advice for firefighters

**Personal safety equipment for firefighters:**

Self-contained breathing apparatus

## **SECTION 6: Accidental Release Measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

#### **6.1.1. For non-emergency personnel**

##### **Protective equipment:**

Use personal respiratory protection equipment during exposure to gases and vapours.  
Use personal safety equipment (see SECTION 8).

##### **Emergency procedures:**

Remove the source of ignition. Avoid contact with skin and eyes. Avoid inhalation of gases and vapours.

#### **6.1.2. For emergency personnel**

Use personal respiratory protection equipment during exposure to gases and vapours.  
Personal safety equipment (see SECTION 8).

### **6.2. Environmental precautions**

Do not allow the product to reach sewerage systems or surface and ground waters.

### **6.3. Methods and material for containment and cleaning up**

Remove mechanically.

### **6.4. Reference to other sections**

Personal safety equipment – see SECTION 8.  
Waste disposal – see SECTION 13.

## **SECTION 7: Handling and Storage**

### **7.1. Precautions for safe handling**

**Handling of the substance or preparation:**

The product should be processed in a well ventilated environment. If required, an air exhaust should be installed.

**General workplace health and safety rules:**

Do not eat or drink when working with the product, do not smoke in the workplace.  
Wash your hands after contact with the product.

**7.2. Conditions for safe storage, including any incompatibilities**

**Technical equipment and storage conditions:**

Avoid storage of the product at high temperatures. Avoid all sources of ignition: high temperature, sparks, open fire. Store the product in a dry, dark and well ventilated place, at ambient temperature. Due to quality reasons, protect the product against moisture, dust and contamination.

**Storage with other substances/preparations:**

See SECTION 10.4.

No specific rules have been issued for the storage of the product with other substances/preparations.

**7.3. Specific end use(s)**

No specific recommendations issued.

**SECTION 8: Exposure Controls/Personal Protection**

**8.1. Control parameters**

Data lacking

The product may release particulates not otherwise classified (PNOCs).

**DNEL/DMEL values:** Data lacking.

**PNEC values:** Data lacking.

The indicated values are based on known properties of the mixture's ingredient(s).

**8.2. Exposure controls**

**General protection rules:**

The product should be processed in a well ventilated room; If required, an air exhaust should be additionally installed.  
Comply with Directive 89/686/CEE and its amendments.

<b>Eyes and face:</b>	Wear protective goggles.
<b>Hands:</b>	Wear protective gloves.
<b>Respiratory:</b>	In case of exposure to dust/vapours, use respiratory protection with anti-dust filter. Use EU8 compliant equipment.

## SECTION 9: Physical and Chemical Properties

### 9.1. Information on basic Physical and Chemical Properties

<b>Physical form:</b>	Solid
<b>Appearance:</b>	Wire
<b>Colour:</b>	Natural (milky) and, depending on the dye used, it can be light orange, orange, red, dark blue, green, aluminium (silver), black.
<b>Odour:</b>	Irritant during processing
<b>Odour threshold:</b>	Data lacking
<b>pH value:</b>	Neutral
<b>Melting point:</b>	>80°C
<b>Boiling point:</b>	Not applicable
<b>Evaporation rate:</b>	Not applicable
<b>Flammability:</b>	Data lacking
<b>Upper/lower flammability limit:</b>	Data lacking
<b>Vapour pressure:</b>	Not determined
<b>Vapour density:</b>	Not determined
<b>Relative density:</b>	1.07
<b>Water solubility:</b>	Data lacking
<b>Solubility in other liquids:</b>	Data lacking
<b>n-octanol/water partition coefficient:</b>	Data lacking
<b>Self-ignition point:</b>	Data lacking
<b>Thermal decomposition:</b>	See: SECTION 10.4.
<b>Viscosity:</b>	Data lacking
<b>Explosive properties:</b>	Data lacking
<b>Oxidising properties:</b>	Data lacking
<b>Molecular weight:</b>	50,000 ~ 250,000

Depending on the colour of the product, its physical and chemical properties may slightly vary.

### 9.2. Other information



<b>Surface tension:</b>	Data lacking
<b>Thermal conductivity:</b>	Data lacking
<b>Electrical conductivity:</b>	Data lacking

## SECTION 10: Stability and Reactivity

### 10.1. Reactivity

Data not available. See SECTION 10.3.

### 10.2. Chemical stability

The product remains stable under recommended storage conditions. See SECTION 7.2.

### 10.3. Possibility of hazardous reactions

No dangerous reactions are known under recommended operational conditions.

### 10.4. Conditions to avoid

Temperatures above 60°C. Electrostatic discharge. Working with the product in poorly ventilated rooms.

### 10.5. Incompatible materials

Strong oxidisers.

### 10.6. Hazardous decompositions products

No decomposition or products are not known under recommended storage conditions.  
Gaseous degradation products can be released if the product is highly overheated.  
Flammable vapour may occur, also see SECTION 5.2.

## SECTION 11: Toxicological Information

### 11.1. Information on toxicological effects

**Acute toxicity:** Skin: Data lacking  
Mouth: LD50 >5.000mg/kg (rat)  
The product has not been tested. The indicated value is based on known properties of the mixture's ingredient(s).

**Skin irritation:** May be irritating to the skin.

**Eye irritation:** May be irritating to the eyes.

**Sensitisation:** Data lacking

**Mutagenicity:** Data lacking

## **SECTION 12: Ecological information**

### **12.1. Toxicity**

**Effect on living organisms:** Data lacking

### **12.2. Persistence and degradability**

Data lacking

### **12.3. Bioaccumulative potential**

Data lacking

### **12.4. Mobility in soil**

Data lacking

### **12.5. Results of PBT and vPvB assessment**

Data lacking because/or no CSR report is required.

### **12.6. Other adverse effects**

See: SECTION 6.2.

## **SECTION 13: Disposal Considerations**

### **13.1. Waste treatment effects**

Do not discharge waste to sewerage systems, soil or water reservoirs. Dispose of waste in accordance with locally applicable regulations. The same applies to packaging.

## **SECTION 14: Transport Information**



#### Sections 14.1. to 14.5.

IMDG: Data lacking

ICAO\IATA: Data lacking

ADR\RID: Data lacking

#### 14.6. Special precautions for user

See SECTIONS 6, 7 and 8.

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Data lacking

### SECTION 15: Regulatory Information

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

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Applicable laws: Journal of Laws of 2011 No. 63 item 322; Journal of Laws of 2009 No. 20 item 106; Journal of Laws of 2012 No. 0 item 1018 as amended; restructured European Agreement concerning the International Carriage of Dangerous Goods by Road ADR; Journal of Laws 04.96.959 as amended; Journal of Laws of 2003 No. 169 item 1650.

#### 15.2. Chemical safety assessment

Data lacking

### SECTION 16: Other Information

Prepared by: Devil Design Ryszka Mateja Sp. J.

**Last revision date:** --/--/----

