# SECTION 1: Identification of the substance/preparation and of the company

| 1.1 Product identifier                               | Material Safety Data Sheet valid from May 13 2019   |  |
|--|---|--|
| Trade name:  | PrimaValue ABS  |  |
| 1.2 Relevant identified uses<br>General use:         | of the substance or mixture and uses advised against<br>Polymer for 3D printing application |  |
| 1.3 Details of the supplier of the safety data sheet |   |  |
| Company name:  | Duine a Duint au Naudia AD  |  |
| 1 2  | Prima Printer Nordic AB   |  |
| Street/POB-No.:                                      | Kantyxegatan 25 F   |  |
| Street/POB-No.:<br>Postal Code, city:                |   |  |
|  | Kantyxegatan 25 F   |  |
| Postal Code, city:                                   | Kantyxegatan 25 F<br>SE 213 76 Malmö, SWEDEN  |  |

### **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

This mixture is classified as not hazardous.

#### Classification according to Directive 67/548/EEC or 1999/45/EC

This preparation is classified as not hazardous.

#### 2.2 Label elements

Labelling (CLP) Hazard statements: not applicable Safety precautions: not applicable

#### Labelling (67/548/EEC or 1999/45/EC)

R phrase(s): not applicable S phrase(s): not applicable

#### 2.3 Other hazards

Dust: Can cause skin, eye and respiratory tract irritation. Fine dust: explosive The melted product can cause severe burns. Swallowing may cause gastrointestinal irritation and pain of guts.

# SECTION 3: Composition / information on ingredients

3.1 Substances: not applicable

#### 3.2 Mixtures

Chemical characterization:

Polymer mixture, enhanced for 3D printingCAS No. 9003-56-9:> 98 % Styrene-acrylonitrile-butadiene copolymerCAS No. 100-42-5:< 0,1 % Styrene</td>

### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

| General information:      | Immediately remove any contaminated clothing, shoes or stockings.                             |
|---------------------------|---|
| After inhalation:         | Provide fresh air. Put victim at rest and keep warm. Seek medical attention                   |
| In case of skin contact:  | The melted product can cause severe burns.  |
|                           | Do not attempt to remove molten product, or molten product that has cooled, from              |
|                           | skin without medical assistance.  |
|                           | After contact with molten product, cool skin area rapidly with cold water. Consult physician. |
| After eye contact:        | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if        |
|                           | present and easy to do. Continue rinsing.   |
|                           | Consult an eye specialist in the event of irritation.   |
| After swallowing:         | Rinse mouth with water. Drink one or two glasses of water.                                    |
|                           | Never give an unconscious person anything through the mouth. seek medical attention.          |
| 4.2 Most important symp   | toms and effects, both acute and delayed  |
|                           | Dust: Skin irritation, eye irritations and redness  |
| 4.3 Indication of any imm | ediate medical attention and special treatment needed   |

Treat symptomatically.

### **SECTION 5: Firefighting measures**

| 5.1 Extinguishing media       |  |
|-------------------------------|--|
| Suitable extinguishing media: |  |
|                               | Water fog, foam, extinguishing powder, carbon dioxide.   |
| Extinguishing media which mu  | st not be used for safety reasons:   |
|                               | High power water jet   |
| 5.2 Special hazards arising f | from the substance or mixture  |
|                               | In case of fire may be liberated: hydrogen cyanide, carbon monoxide and carbon dioxide   |
| (CO2).                        | In case of dust (Fine dust): danger of dust explosion  |
| 5.3 Advice for firefighters   |  |
|                               | Special protective equipment for firefighters:   |
|                               | Wear a self-contained breathing apparatus and chemical protective clothing.  |
| Additional information:       | Hazchem-Code: -  |
|                               | Do not allow fire water to penetrate into surface or ground water. Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regula tions of the local authorities. |

### SECTION 6: Accidental release measures

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

Provide adequate ventilation.

Wear personal protection equipment. Do not breathe dust.

#### 6.2 Environmental precautions

Do not allow to penetrate into soil, waterbodies or drains.

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

Avoid generation of dust. Remove all sources of ignition.

Take up mechanically. Collect in closed containers for disposal.

Additional information: Special danger of slipping by leaking/spilling product.

6.4 Reference to other sections

Refer additionally to chapter 8 and 13.

# SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Provide adequate ventilation, and local exhaust as needed. Do not breathe dust. Advices on safe handling: In the case of the formation of dust: Withdraw by suction. Molten material: Avoid contact with the substance.

#### Precautions against fire and explosion:

Take precautionary measures against static discharge. Keep away from sources of ignition. Use grounding equipment. Use explosion-proof equipment and non-sparking tools/utensils. Avoid open flames. Dust forms explosive mixtures with air.

#### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Storage class:

7.3 Specific end use(s)

Store in a well-ventilated place. Keep container tightly closed. Protect against heat / sun rays. Protect from moisture contamination. 11 = Combustible solids

No information available.

3

# SECTION 8: Exposure controls/personal protection

| CAS No | Туре | Limit value |
|--------|------|-------------|
| х      | X    | X           |
| Х      | x    | х           |
| X      | x    | x           |
| X      | x    | x           |
| Х      | X    | X           |
| Х      | X    | X           |
| Х      | X    | X           |

#### 8.1 Control parameters

Occupational exposure limit values:

#### 8.2 Exposure controls

Provide good ventilation and/or an exhaust system in the work area.

#### Occupational exposure controls

| Respiratory protection:        | Respiratory protection must be worn whenever the WEL levels have been exceeded.           |
|--------------------------------|---|
|                                | Use filter type A-P2 according to EN 14387.   |
| Hand protection:               | Protective gloves according to EN 374.  |
|                                | Glove material: Nitrile rubber - Layer thickness: 0,11 mm. Breakthrough time: >480 min.   |
|                                | Observe glove manufacturer's instructions concerning penetrability and breakthrough       |
|                                | time. In case of melting: Protective gloves against heat according to EN 407.             |
|                                | Observe glove manufacturer's instructions concerning penetrability and breakthrough time. |
| Eye protection:                | Tightly sealed goggles according to EN 166.   |
| Body protection:               | Wear suitable protective clothing. boots or Wear protective shoes.                        |
| General protection and hygiene | e measures:   |
|                                | Molten material: Avoid contact with skin.   |
|                                | Do not inhale dust particles or vapours. Keep away from sources of ignition. Wash         |
|                                | hands before breaks and after work.   |
|                                | In case of dust: Particular danger of slipping when spread on the ground.                 |

Environmental exposure controls

Do not allow to penetrate into soil, waterbodies or drains.

# **SECTION 9: Physical and chemical properties**

| 0 | а. |
|---|----|
| u |    |
|   |    |

| 9.1                                  | Information on basic physical and chemical properties            |
|--------------------------------------|--|
| Appearance:                          | Physical state: solid: pellets Colour: natural colours (whitish) |
| Odour:                               | Weak, characteristic   |
| Odour threshold:                     | No data available  |
| pH value:                            | No data available  |
| Melting point/melting range:         | > 100 °C (DIN EN ISO 306)  |
| Boiling temperature/boiling range:   | No data available  |
| Flash point/flash point range:       | > 400 °C   |
| Vapourisation rate:                  | No data available  |
| Flammability:                        | Not highly flammable.  |
| Explosive properties:                | Dust explosion risk at fine dust                                 |
| Explosion limits:                    | No data available No data available                              |
| Vapour pressure:                     | No data available  |
| Vapour density:                      | No data available  |
| Density:                             | at 20 °C: approx. 1,04 g/cm³ (DIN 53479)                         |
| Water solubility:                    | insoluble  |
| Partition coefficient n-octanol/wate |  |
| Autoflammability:                    | not self-igniting  |
| Thermal decomposition:               | approx. 300 °C   |
| To avoid thermal decomposition, do   |  |
| Viscosity, dynamic:                  | No data available  |
| Explosive properties:                | No data available  |
| Oxidizing characteristics:           | Oxidising potential: not oxidising                               |
|                                      |  |

#### 9.2 Other information

| Ignition temperature:   | > 400 °C (DIN 51794)                    |
|-------------------------|---|
| Bulk density:           | at 20 °C: approx. 600 kg/m³ (DIN 53466) |
| Additional information: | No data available                       |

# SECTION 10: Stability and reactivity

| 10.1 Reactivity                   | refer to 10.3  |
|-----------------------------------|--|
| 10.2 Chemical stability           | Stable under recommended storage conditions.   |
| 10.3 Possibility of hazardous rea | <b>actions</b><br>In case of dust (Fine dust): danger of dust explosion  |
| 10.4 Conditions to avoid          | Protect from excessive heat. Keep away from sources of ignition and heat.<br>Avoid dust formation.   |
| 10.5 Incompatible materials       | Strong oxidizing agents  |
| 10.6 Hazardous decomposition      | -  |
| Thermal decomposition:            | In case of fire may be liberated: hydrogen cyanide, carbon monoxide and carbon<br>dioxide (CO2).<br>approx. 300 °C<br>To avoid thermal decomposition, do not overheat. |

# **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

| Other information: |   |
|--------------------|---|
| Styrene:           | Harmful if inhaled. Causes damage to organs through prolonged or repeated exposure.     |
|                    | lung damages  |
|                    | May be fatal if swallowed and enters airways.   |
|                    | Causes serious eye irritation. Causes skin irritation.                                  |
| Acrylonitrile:     | Toxic by inhalation, in contact with skin and if swallowed.                             |
|                    | May cause cancer. Suspected of damaging the unborn child.                               |
|                    | Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. |
| 1,3-Butadiene:     | May cause cancer. May cause genetic defects.  |
|                    |   |
|                    |   |
| Symptoms           |   |
|                    | Dust:   |
|                    | Can cause skin, eye and respiratory tract irritation.                                   |
|                    | The melted product can cause severe burns.  |
|                    | Thermal treatment, Processing:  |
|                    | Irritating to eyes, respiratory system and skin.  |
|                    | irritating to eyes, respiratory system and skin.  |

In case of ingestion: Swallowing may cause gastrointestinal irritation and pain of guts.

# **SECTION 12: Ecological information**

| <b>12.1 Toxicity</b><br>Aquatic toxicity:<br>Water Hazard Class: | no evidence of aquatic toxicity<br>nwg = non-hazardous to water (WGK catalog number 766)   |
|--|--|
| <b>12.2. Persistence and degrad</b><br>Further details:          | <b>ability</b><br>Biodegradation: Product is not readily biodegradable.<br>The product is likely to persist in the environment.  |
| Effects in sewage plants:  | In sewage treatment plants it may be separated mechanically.   |
| 12.3 Bioaccumulative potent                                      | ial<br>To avoid bioaccumulation plastics should not be disposed in the sea or in other water<br>environments.<br>Partition coefficient n-octanol/water:<br>No data available |
| 12.4 Mobility in soil  | No data available  |
| 12.5 Results of PBT and vPvB                                     | <b>assessment</b><br>This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.  |
| <b>12.6 Other adverse effects</b><br>General information:        | Do not allow to enter into ground-water, surface water or drains.  |

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

| Product           |   |
|-------------------|---|
| Waste key number: | 07 02 99 = wastes from the MFSU of plastics, synthetic rubber and man-made fibres<br>MFSU = manufacture, formulation, supply and use                  |
| Recommendation:   | With due observance of the regulations laid down by the local authorities, this must be brought to a suitable incineration plant/waste disposal site. |

#### **Contaminated packaging**

Recommendation: Dispose of waste according to applicable legislation. Non-contaminated packages may be recycled.

# **SECTION 14: Transport information**

#### 14.1 UN number

not applicable

#### 14.2 UN proper shipping name ADR/RID, IMDG, IATA:

Not restricted

#### 14.3 Transport hazard class(es)

not applicable

#### 14.4 Packing group

not applicable

#### 14.5 Environmental hazards Marine pollutant No

### 14.6 Special precautions for user

No dangerous good in sense of these transport regulations.

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

No data available

# SECTION 15: Regulatory information

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

#### National regulations - Great Britain

Hazchem-Code: -

#### National regulations - USA

| Hazard rating systems: |  |
|------------------------|--|
|                        |  |

NFPA Hazard Rating: Health: 1 (Slight) Fire: 1 (Slight) Reactivity: 0 (Minimal) HMIS Version III Rating: Health: 1 (Slight) Flammability: 1 (Slight) Physical Hazard: 0 (Minimal) Personal Protection: X = Consult your supervisor

#### **15.2 Chemical Safety Assessment**

For this substance a chemical safety assessment is not required.

# **SECTION 16: Other information**

#### **Further information**

| Reason of change:             | Changes in section 1: product name, Changes of product list General revision |  |
|-------------------------------|--|--|
| Date of first version:        | 30.01.2013   |  |
| Department issuing data sheet |  |  |
| Contact person:               | see section 1: Dept. responsible for information                             |  |

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.



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