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 General use:	of the substance or mixture and uses advised against 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.: Postal Code, city:		
	Kantyxegatan 25 F	
Postal Code, city:	Kantyxegatan 25 F 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

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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	actions 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. 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 dioxide (CO2). approx. 300 °C 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

12.1 Toxicity Aquatic toxicity: Water Hazard Class:	no evidence of aquatic toxicity nwg = non-hazardous to water (WGK catalog number 766)
12.2. Persistence and degrad Further details:	ability Biodegradation: Product is not readily biodegradable. 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 To avoid bioaccumulation plastics should not be disposed in the sea or in other water environments. Partition coefficient n-octanol/water: No data available
12.4 Mobility in soil	No data available
12.5 Results of PBT and vPvB	assessment This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.
12.6 Other adverse effects 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 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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