SAFETY DATA SHEET



SECTION 1: Identification of the substance/mixture and of the company/undertaking

11. Product identifier Trade name or designation Centaur PP of the mixture Registration number Symonyms POL/PROPYLENE Issue date 17-Jun-19 Version number 0 1 1. Relevant identified uses of the substance or mixture and uses advised against identified uses 3D primer filament Uses advised against None known. 1.3. Details of the subplier of the safety data sheet Supplier Company name Formfutura BV Address Groenestrate 215, 6531 HH Nijmegen, The Netherlands Division Telephone + 31 (0)85 743 4000 (Office hours Mo Fr. 09:00 - 17:00 CET) e-mail product compliance 1.4. Emergency telephone + 31 (0)85 743 4000 (Office hours Mo Fr. 09:00 - 17:00 CET) e-mail product compliance 1.4. Emergency telephone + 31 (0)85 743 4000 (Office hours Mo Fr. 09:00 - 17:00 CET) e-mail product compliance 1.4. Emergency telephone + 31 (0)85 743 4000 (Office hours Mo Fr. 09:00 - 17:00 CET) e-mail product compliance 1.4. Emergency telephone + 31 (0)85 743 4000 (Office hours Mo Fr. 09:00 - 17:00 CET) e-mail product compliance 1.4. Emergency telephone + 31 (0)85 743 4000 (Office hours Mo Fr. 09:00 - 17:00 CET) e-mail product compliance 1.4. Emergency telephone + 31 (0)85 743 4000 (Office hours Mo Fr. 09:00 - 17:00 CET) e-mail product compliance 1.4. Emergency telephone + 31 (0)85 743 4000 (Office hours Mo Fr. 09:00 - 17:00 CET) e-mail product compliance 1.4. Emergency telephone + 31 (0)85 743 4000 (Office hours Mo Fr. 09:00 - 17:00 CET) e-mail product compliance 1.4. Emergency telephone + 31 (0)85 743 4000 (Office hours Mo Fr. 09:00 - 17:00 CET) e-mail product compliance Classification of the substance or mixture The mixture does not mexture The mixture does not mexture The mixture does not mext the criteria for classification. Hazard pictograms None. Hazard pictograms None. Hazard statements The mixture does not meet the criteria for classification. Procautionary statements Provention Not available. Stornge Not available. Stor		· · · · · · · · · · · · · · · · · · ·
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Composition comments The full text for all H statements is displayed in section 16.	Composition comments	The full text for all H statements is displayed in section 16.

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SECTION 4: First aid measures

General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
4.1. Description of first aid meas	sures
Inhalation	Not likely, due to the form of the product. If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if cough or other symptoms develop.
Skin contact	If burned by contact with hot material, cool molten material adhering to skin as quickly as possible with water, and see a physician for removal of adhering material and treatment of burn. Do not peel polymer from the skin.
Eye contact	Not likely, due to the form of the product. If hot product contacts eye, flush with water for at least 15 minutes and seek medical attention immediately.
Ingestion	Not likely, due to the form of the product.
4.2. Most important symptoms and effects, both acute and delayed	Exposure may cause temporary irritation, redness, or discomfort.
4.3. Indication of any immediate medical attention and special treatment needed	Treat symptomatically.

SECTION 5: Firefighting measures

General fire hazards	No unusual fire or explosion hazards noted.
5.1. Extinguishing media Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (C02).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
5.2. Special hazards arising from the substance or mixture	During fire, gases hazardous to health may be formed.
5.3. Advice for firefighters Special protective equipment for firefighters	Self contained breathing apparatus and full protective clothing must be worn in case of fire.
Special fire fighting procedures	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures		
For non-emergency personnel	Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.	
For emergency responders	Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.	
6.2. Environmental precautions	Avoid discharge into drains, water courses or onto the ground.	
6.3. Methods and material for containment and cleaning up	Sweep up or vacuum up spillage and collect in suitable container for disposal. For waste disposal, see section 13 of the SDS.	
6.4. Reference to other sections	For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.	

SECTION 7: Handling and storage

7.1. Precautions for safe handling	Observe good industrial hygiene practices.
7.2. Conditions for safe storage, including any incompatibilities	Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).
7.3. Specific end use(s)	Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Recommended monitoring procedures	Follow standard monitoring procedures.

Derived no effect levels (DNELs)	Not available.
Predicted no effect concentrations (PNECs)	Not available.
8.2. Exposure controls	
Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
Individual protection measures, such as personal protective equipment	
General information	Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin protection	
- Hand protection	Wear appropriate chemical resistant gloves.
- Other	Wear suitable protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
Hygiene measures	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.
Environmental exposure controls	Environmental manager must be informed of all major releases.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	
Physical state	Solid.
Form	Filament
Colour	Color depends on product specification.
Odour	Slight.
Odour threshold	Not available.
рН	Not available.
Melting point/freezing point	190 - 220°C
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	0.85 - 0.90 g/cm³
Solubility(ies)	
Solubility (water)	Insoluble
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

SECTION 10: Stability and reactivity		
10.1. Reactivity	The product is stable and non reactive under normal conditions of use, storage and transport.	
10.2. Chemical stability	Material is stable under normal conditions.	
10.3. Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.	
10.4. Conditions to avoid	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid temperatures exceeding the decomposition temperature. Contact with incompatible materials.	
10.5. Incompatible materials	Strong oxidising agents.	
10.6. Hazardous decomposition products	No hazardous decomposition products are known.	

No relevant additional information available.

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9.2. Other information

SECTION 11: Toxicologica	al information	
General information	Occupational exposure to the substance or mixture may cause adverse effects.	
Information on likely routes of e	xposure	
Inhalation	Based on available data, the classification criteria are not met.	
Skin contact	Based on available data, the classification criteria are not met.	
Eye contact	Based on available data, the classification criteria are not met.	
Ingestion	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.	
Symptoms	Exposure may cause temporary irritation, redness, or discomfort.	
11.1. Information on toxicologica	al effects	
Acute toxicity	Not known.	
Skin corrosion/irritation	Based on available data, the classification criteria are not met.	
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met.	
Respiratory sensitisation	Based on available data, the classification criteria are not met.	
Skin sensitisation	Based on available data, the classification criteria are not met.	
Germ cell mutagenicity	Based on available data, the classification criteria are not met.	
Carcinogenicity	Based on available data, the classification criteria are not met.	
Hungary. 26/2000 EüM Ordir (as amended) Not listed.	nance on protection against and preventing risk relating to exposure to carcinogens at work	
Reproductive toxicity	Based on available data, the classification criteria are not met.	
Specific target organ toxicity -	Based on available data, the classification criteria are not met.	
single exposure		
Specific target organ toxicity - repeated exposure	Based on available data, the classification criteria are not met.	
Aspiration hazard	Based on available data, the classification criteria are not met.	
Mixture versus substance information	No information available.	
Other information	This product has no known adverse effect on human health.	
SECTION 12: Ecological information		
12.1. Toxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.	
12.2. Persistence and degradability	No data is available on the degradability of any ingredients in the mixture.	
12.3. Bioaccumulative potential	Not available.	
Partition coefficient n-octanol/water (log Kow)	Not available.	
Bioconcentration factor (BCF)	No data available.	
12.4. Mobility in soil	Not a PBT or vPvB substance or mixture. Not available.	
12.5. Results of PBT and vPvB assessment	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation	
12.6. Other adverse effects	potential, endocrine disruption, global warming potential) are expected from this component.	

SECTION 13: Disposal considerations

13.1. Waste treatment methods	
Residual waste	Dispose of in accordance with local regulations.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods/information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Special precautions	Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. 14.6.: Not regulated as dangerous goods.

RID

14.1. 14.6.: Not regulated as dangerous goods.

ADN

14.1. 14.6.: Not regulated as dangerous goods.

ΙΑΤΑ

14.1. 14.6.: Not regulated as dangerous goods.

IMDG

14.1. 14.6.: Not regulated as dangerous goods.

14.7. Transport in bulkNot applicable.according to Annex II ofMARPOL 73/78 and the IBCCodeCode

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended Not listed

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended Not listed.

Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

National regulations	Follow national regulation on the protection of workers from the risks of exposure to carcinogens and mutagens at work, in accordance with Directive 2004/37/EC.
15.2. Chemical safety assessment	No Chemical Safety Assessment has been carried out.
SECTION 16: Other inform	nation
List of abbreviations	Not available.
References	Not available.
Information on evaluation method leading to the classification of mixture	The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.
Full text of any H-statements not written out in full under Sections 2 to 15	None.
Revision information	None.
Training information	Follow training instructions when handling this material.
Disclaimer	This safety data sheet (SDS) is issued based on the latest reference, data etc currently available. The information in this SDS has been carefully assessed, but no guarantee is given for its

user's responsibility to take appropriate safety measures for handling.

accuracy. We cannot anticipate all conditions under which this product may be used. It is the

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