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SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier

Trade name or designation of the mixture ApolloX

Registration number

Synonyms

None.

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

Identified uses	3D printer filament
Uses advised against	None known.

1.3. Details of the supplier of the safety data sheet

Company name	Formfutura BV
Address	Groenestraat 215, 6531 HH, Nijmegen, The Netherlands
Telephone	+31 (0)85 743 400
E-mail	info@formfutura.com
1.4. Emergency telephone number	+31 (0)30 274 8888, only for the doctor
	National Poison Information Center Utrecht, The Netherlands

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

Not available.

Hazard summary

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

	Hazard pictograms	None.
	Signal word	None.
	Hazard statements	The mixture does not meet the criteria for classification.
Precauti	onary statements	
	Prevention	Not available.
	Response	Not available.
	Storage	Not available.
	Disposal	Not available.
	Supplemental label information	None.
2.3. Oth	ner hazards	Not a PBT or vPvB substance or mixture.

SECTION 3: Composition/information on ingredients 3.2. Mixtures

The components are not hazardous or are below required disclosure limits.

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	on		al personnel are aware of the material(s) involved, and take themselves.
4.1. Description of	f first aid measures		
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		he form of the product. If hot p attention immediately.	product contacts eye, flush with water for at least 15 minutes
Ingestion	Not likely, due to th	he form of the product.	
4.2. Most importa	nt symptoms and effe	ects, both acute and delayed	Exposure may cause temporary irritation, redness, or discomfort.
4.3. Indication of	any immediate media	cal attention and special treatn	nent needed Treat symptomatically.
SECTION 5: Fi General fire hazar	refighting measu	ires No unusual fire or explosion	n hazards noted.
5.1. Extinguishing	media		
Suitable extinguish	ing media	Water fog. Foam. Dry chemi	ical powder. Carbon dioxide (CO2).
Unsuitable extingu	ishing media	Do not use water jet as an ex	xtinguisher, as this will spread the fire.
5.2. Special hazar	ds arising from the s	ubstance or mixture During f	fire, gases hazardous to health may be formed.
5.3. Advice for fire	fighters		
Special protective	equipment for firefigl	hters Self-contained bre case of fire.	eathing apparatus and full protective clothing must be worn in
Special fire fighting	g procedures	Use water spray to cool unop	pened containers.
Specific methods	Use stan	dard firefighting procedures a	and consider the hazards of other involved materials.
	ccidental release autions, protective ec	measures quipment and emergency proc	cedures
For non-emergend	cy personnel	Keep unnecessary personnel	l away. For personal protection, see section 8 of the SDS.
For emergency res	sponders	Keep unnecessary personnel of the SDS.	l away. Use personal protection recommended in Section 8
6.2. Environmento	l precautions	Avoid discharge into drains,	water courses or onto the ground.
6.3. Methods and	material for containr	nent 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 a	other sections	For personal protection, see the SDS.	section 8 of the SDS. For waste disposal, see section 13 of
SECTION 7: H 7.1. Precautions for	andling and stor or safe handling	age Observe good industrial hyg	jiene practices.
7.2. Conditions fo	r safe storage, includ	ling any incompatibilities	Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).
7.3. Specific end u	use(s) Not avai	lable.	,



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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 Personal protection equipment should be chosen according to the CEN standards and in General information 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 th	reshold	Not available.
рН		Not available.
Melting p	oint/freezing point	Not available.
Initial boi	ling point and boiling range	140 - 170 °C (284 - 338 °F)
Flash poi	nt	Not available.
Evaporati	on rate	Not available.
Flammab	ility (solid, gas)	Not available.



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Upper/lower flammability or explosive limits

Flammability limit – lower (%)	Not available.
Flammability limit – upper (%) Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	± 1.11 g/cc
Solubility(ies)	
Solubility (water)	Insoluble
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	> 280 °C (> 536 °F)
Viscosity	Not available.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
9.2. Other information	No relevant additional information available.

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 decompositi	on products No hazardous decomposition products are known.
SECTION 11: Toxicolog	ical information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

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.
- Evposure	a may cause temperany initiation, reduces, or discomfort

Symptoms Exposure may cause temporary irritation, redness, or discomfort.

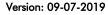
11.1. Information on toxicological effects

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.

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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 work (as amended	D EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at I)
Not liste	d.
Reproductive toxicity	Based on available data, the classification criteria are not met.
Specific target organ toxicity	- single exposure Based on available data, the classification criteria are not met.
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 info	ormation No information available.
Other information	This product has no known adverse effect on human health.
	al information duct is not classified as environmentally hazardous. However, this does not exclude the possibility the frequent spills can have a harmful or damaging effect on the environment.
12.2. Persistence and degrad	dability No data is available on the degradability of any ingredients in the mixture.
12.3. Bioaccumulative poten	tial Partition coefficient n-octanol/water (log Kow) Not available.
Bioconcentration factor (BCF)) Not available.
12.4. Mobility in soil	No data available.
12.5. Results of PBT and vPvI	B assessment Not a PBT or vPvB substance or mixture. Not available.
12.6. Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.
SECTION 13: Disposal 13.1. Waste treatment metho	
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/informatic	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Special precautions	Dispose in accordance with all applicable regulations.
SECTION 14: Transpor ADR 14.1 14.6.: Not	rt information regulated as dangerous goods.
	regulated as dangerous goods.
	regulated as dangerous goods.
IATA 14.1 14.6.: Not	regulated as dangerous goods.
	regulated as dangerous goods. regulated as dangerous goods.





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.





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SECTION 16: Other information

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 accuracy. We cannot anticipate all conditions under which this product may be used. It is the user's responsibility to take appropriate safety measures for handling.