

SAFETY DATA SHEET

according to the Regulation (EC) 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and subsequent amendments

PRODUCT NAME: Fillamentum Vinyl 303

Revision date: 7.2.2019/1

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

1.1 Identification of the substance / preparation

Product name: Fillamentum Vinyl 303

1.2 Application

Use of the substance or mixture: Filaments for 3D printing
Recommended restrictions on use: Designed for professional / industrial use.

1.3 Manufacturer / Supplier:

Company: Fillamentum Manufacturing Czech s.r.o.
Address: nám. Míru 1217
768 24 Hulín
Czech Republic
ID: 29233275
Website: www.fillamentumindustrial.com
Telephone: +420 720 060 947
E-mail: info@fillamentumindustrial.com

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification

Classification according to Regulation (EC) No. 1272/2008 [CLP]:

Categories of danger: Skin Sens. 1: H317
STOT RE 2: H373

Full text of classification categories and H statements: see Section 16.

Adverse physicochemical, human health and environmental effects: Provided it is handled in accordance with good occupational hygiene and safety practice, this material does not present any particular risk. Provided the disposal requirements, it presents no particular risk to the environment. The material is not classified as flammable according to EC criteria, but it may present a risk in the event of a fire.

2.2 Label elements

Pictogram:



Signal Words: Warning!

Hazard Statements:

Health: H317; H373
Prevention: P260; P261; P272; P280
Response: P302+P352; P314; P321; P333+P313; P362+P364
Other: EUH208; EUH210

2.3 Other hazards

Not applicable.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable.

3.2 Mixture

Description: Vinyl polymers

Chemical name	CAS No. EC no	Content [weight %]	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-ethylhexyl 10-ethyl-4,4-dimethyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate	57583-35-4 260-829-0	< 1,5	Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317 Repr. 2, H361d STOT RE1, H372 Aquatic Chronic 3, H412
2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-methyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate	57583-34-3 260-828-5	< 0,5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Muta. 2, H341 Repr. 2, H361d

Full text of classification categories and H-statements: see Section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

- In case of inhalation: If vapours or decomposition products are accidentally inhaled, move to fresh air. It is necessary to apply artificial respiration or oxygen. If you feel unwell, seek medical advice.
- In case of skin contact: After contact with hot melted material, immediately cool with plenty of water. Do not remove the product crusts created on skin by violence or with solvents. Treat as thermal burns. Seek medical attention for the treatment of skin burns.
- In case of eye contact: After contact with the molten product, immediately cool with plenty of water. Consult an eye specialist immediately.
- In case of ingestion: Immediately call a POISON CENTER or doctor.

4.2 Most important symptoms and effects, both acute and delayed

- After skin contact: In case of contact with hot melted material: Burns.
- After eye contact: In case of contact with hot melted material: Burns.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: water spray

5.2 Special hazards arising from the substance or mixture

In the event of fire, the material releases carbon oxide, carbon dioxide, hydrogen chloride.

5.3 Advice for firefighters

Do not attempt to act without suitable protective equipment. In the event of fire disposal, it is necessary to use the respiratory protection with independent air supply and complete protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Emergency procedures

Avoid the presence of unauthorized persons. Only personnel with suitable protective equipment may intervene. Take care while working with melted material. Wear gloves.

6.1.2 For emergency responders

Protective equipment

Suitable protective equipment is necessary. Further information is provided in Section 8: Exposure controls/personal protection.

6.2 Environmental precautions

Do not allow entering in environment.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up

Sweep up or vacuum up. Recycle or dispose of in compliance with current legislation.

Other information

Caution: this product can cause the floor to be slippery.

6.4 Reference to other sections

For other disposal see Section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Ensure good ventilation of the work place. Adequate ventilation should be ensured while processing. Ground the equipment. Eliminate the build-up of electrostatic charge.

Do not drink, eat or smoke in the workplace. Wash your hands and face after working with the material.

7.2 Conditions for safe storage, including any incompatibilities

Keep the package well closed and dry. Keep away from heat and sources of ignition.

Storage temperature: < 60 °C

7.3 Specific end uses

No further information is available.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

No further information is available.

8.2 Exposure controls

Appropriate engineering controls:	Ensure good ventilation of the work place. Remove dust at its source. Safety shower. Eye fountain.
Hand protection:	Suitable protective gloves made of neoprene. Contaminated or damaged gloves must be replaced.
Eye protection:	Use personal protection equipment for eyes and face.
Skin and body protection:	Use the protective clothing.
Respiratory protection:	If ventilation is insufficient, use self-contained breathing apparatus.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical Appearance:	Solid, natural or coloured filament
Odour:	No data available
Odour threshold:	No data available
pH:	No data available
Relative evaporation rate (butyl acetate=1)	No data available
Melting point:	~ 180 °C (Pasty)
Freezing point:	No data available
Boiling point:	No data available
Flash point:	Not applicable
Auto-ignition temperature:	400 °C (ASTM D 1929)
Decomposition temperature:	250 °C
Flammability (solid, gas):	No data available
Vapour pressure:	No data available
Relative vapour density at 20 °C:	No data available
Relative density:	No data available
Density:	600–900 kg/m ³ (20 °C)
Solubility:	Slightly soluble in: Cyclohexanone. Dimethylsulfoxide. Tetrahydrofurane. Water: Insoluble.
Log Pow:	No data available
Viscosity, kinematic:	Not applicable
Viscosity, dynamic:	No data available
Explosive properties:	No data available
Oxidising properties:	No data available

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9.2 Other information

No further information is available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Under normal conditions of use, the product does not present any particular risk.

10.2 Chemical stability

Stable at ambient temperature and under normal conditions of use.

10.3 Possibility of hazardous reactions

No hazardous reactions are known.

10.4 Conditions to avoid

Moisture. High temperatures (> 60 °C).

10.5 Incompatible materials

Oxidizing materials.

10.6 Hazardous decomposition products

In case of combustion or thermal decomposition releases: Carbon oxide, Carbon dioxide, hydrogen chloride.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity: not classified (the classification criteria are not met)

2-ethylhexyl 10-ethyl-4,4-dimethyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (CAS: 57583-35-4)	
LD50 oral rat	1150–1710 mg/kg
LD50 dermal rabbit	> 1050 mg/kg

2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-methyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (CAS: 57583-34-3)	
LD50 oral rat	880–1162 mg/kg
LD50 dermal rabbit	1000–2150 mg/kg

Skin corrosion/irritation: not classified (according to data, the classification criteria are not met)

Serious eye damage/irritation: not classified (according to data, the classification criteria are not met)

Respiratory or skin sensitisation: not classified (according to data, the classification criteria are not met)

Germ cell mutagenicity: not classified (according to data, the classification criteria are not met)

Carcinogenicity: not classified (according to data, the classification criteria are not met)

Reproductive toxicity: not classified (according to data, the classification criteria are not met)

Specific target organ toxicity (single exposure): not classified (according to data, the classification criteria are not met)

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Specific target organ toxicity (repeated exposure): not classified (according to data, the classification criteria are not met)

Aspiration hazard: not classified

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

No additional information is available.

12.2 Persistence and degradability

Not biodegradable.

12.3 Bioaccumulative potential

No additional information is available.

12.4 Mobility in soil

No additional information is available.

12.5 Results of PBT and vPvB assessment

No additional information is available.

12.6 Other adverse effects

No additional information is available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

If it is possible, recycle the material. Dispose of according to relevant local regulations.

User should watch out the possible existence of specific European, national or local regulations of disposal.

SECTION 14: TRANSPORT INFORMATION

In accordance of ADR / RID / IMDG / IATA / ADN

14.1 UN number

Not regulated for transport.

14.2 UN proper shipping name

Proper Shipping Name (ADR): Not applicable.

Proper Shipping Name (IMDG): Not applicable.

Proper Shipping Name (IATA): Not applicable.

Proper Shipping Name (ADN): Not applicable.

Proper Shipping Name (RID): Not applicable.

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14.3 Transport hazard class(es)

ADR

Transport hazard class(es) (ADR): Not applicable.

IMDG

Transport hazard class(es) (IMDG): Not applicable.

IATA

Transport hazard class(es) (IATA): Not applicable.

ADN

Transport hazard class(es) (ADN): Not applicable.

RID

Transport hazard class(es) (RID): Not applicable.

14.4 Packing group

Packing group (ADR): Not applicable.

Packing group (IMDG): Not applicable.

Packing group (IATA): Not applicable.

Packing group (ADN): Not applicable.

Packing group (RID): Not applicable.

14.5 Environmental hazards

Dangerous for the environment: No.

Marine pollutant: No.

Other information: No supplementary information available.

14.6 Special precaution for user

See Section 6 to 8.

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

Not applicable.

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SECTION 15: REGULATORY INFORMATION

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

15.1.1 EU-Regulations

The following restrictions are applicable in accordance with Annex XVII of the REACH Regulation (EC) No 1907/2006:

Designation of the substance, of the groups of substances or of the preparation	Conditions of restriction	Substance
3. Liquid substances or preparations, which are regarded as dangerous according to the definitions in Council Directive 67/548/EEC and Directive 1999/45/EC.	1. Shall not be used in: <ul style="list-style-type: none"> - ornamental objects, intended to produce light or colour effects by means of different phases, for example in ornamental lamps or ashtrays, - tricks and jokes, - games for one or more participants, or any object intended to be used as such, even with ornamental aspects. 	2-ethylhexyl 10-ethyl-4,4-dimethyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-methyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate
20. Organostannic compounds	1. Shall not be placed on the market for use as substances and constituents of preparations when acting as biocides in free association paint. 2. Shall not be placed on the market or used as substances and constituents of preparations which act as biocides to prevent by fouling by micro-organisms, plants or animals of: <ul style="list-style-type: none"> (a) all craft irrespective of their length intended for use in marine, coastal, estuarine and inland waterways and lakes; (b) cages, floats, nets and any other appliances or equipment used for fish or shellfish farming; (c) any totally or partly submerged appliance or equipment. 3. Shall not be used as substances and constituents or preparations intended for use in the treatment of industrial waters.	2-ethylhexyl 10-ethyl-4,4-dimethyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-methyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate

The product does not contain any substance on the REACH candidate list. It contains no substances listed in Annex XIV of the REACH regulation.

15.1.2 National regulations

No additional information is available.

15.2 Chemical safety assessment

No chemical safety assessment was performed.

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SECTION 16: OTHER INFORMATION

Data sources: ECHA – European Chemical Agency. MSDS of suppliers
REACH-regulation (EC) No. 1907/2006, VO (EG) No. 2018/675
CLP-regulation (EC) No. 1272/2008, VO (EG) No. 2018/669

Full text of H-, P- and EUH-statements:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Muta. 2	Germ cell mutagenicity, Category 2
Repr. 2	Reproductive toxicity, Category 2
Skin Sens. 1	Sensitisation – Skin, Category 1
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H317	May cause an allergic skin reaction.
H341	Suspected of causing genetic defects.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.
P260	Do not breathe dust/fumes/gas/mist/vapours/spray.
P261	Avoid breathing dust/fumes/gas/mist/vapours/spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P314	Get Medical advice/attention if you feel unwell.
P321	Specific treatment.
P333+P313	If skin irritation or a rash occurs: Get medical advice/attention.
P352+P364	Take off contaminated clothing and wash it before reuse.
EUH208	Contains 2-ethylhexyl 10-ethyl-4,4-dimethyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Skin Sens. 1	H317	Calculation method
STOT RE2	H373	Calculation method

The information is published in the best knowledge and information of the company. The final usage of the product must be assessed by the user. The company is not responsible for any risks caused by incorrect handling or processing.