

Safety Data Sheet

According to EU Directive 1907/2006, as amended

Product name: SKULPT@THIBRA3D

Date of issue: 13-08-2018

Version: 1.2

1. Identification of the substance/preparation and of the company

- 1.1 Trade name:**
SKULPT@THIBRA3D
- 1.2 Use of the product:**
3Dprinter Filament
- 1.3 Supplier:**
MCPN Netherlands BV
Grasbeemd 19
5705DE Helmond, The Netherlands
Phone: +31(0)492 210 210
Emergency phone number: +31 (0)30 274 8888

2. Hazards identification

2.1 Classification of the substance or mixture classification (REGULATION (EC) No 1272/2008)

This product is classified as not hazardous according to Regulation (EC) 1272/2008 and Directive 67/548/EEC.

2.2 Label elements

Not applicable.

3. Composition/information on ingredients

3.2 Mixtures

| Chemical Name | EC No | CAS No | REACH registration number | Weight-% | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--------------------------|---------------|------------|---------------------------|----------|---|
| 2-oxepanone, homopolymer | Not available | 24980-41-4 | No data availab | 10-40 | Not classified |

None of the substances, named in the Candidate list art. 59 (1,10) of the REACH regulation EC no. 1907/2006 has been used in a concentration > 0,1%.

4. First aid measures

4.1 Description of first aid measures

General advice:

If you feel unwell, seek medical advice (show the label where possible). Never give anything by mouth to an unconscious person. Take off contaminated clothing and shoes immediately.

If inhaled:

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in case of gases evolving from molten filament, move person into fresh air.
skin contact with molten filament:
When overheated, the hot melt may stick to the skin. Rinse for at least 10-15 minutes with water. Seek medical advise if removal of molten filament after cooling is difficult. If skin irritation persists, call a physician.
In case of eye contact with molten filament:
If easy to do, remove contact lens, if worn.
In the case of contact with eyes,
rinse immediately with plenty of water and seek medical advice.

If swallowed:

Rinse mouth with water. Induce vomiting immediately and call a physician. If a person vomits when lying on his back, place him in the recovery position.

4.2 Most important symptoms and effects, both acute and delayed

no data available

4.3 Indication of any immediate medical attention and special treatment needed

no data available

5. Fire fighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Water spray, Dry chemical agents, Carbon dioxide (CO₂). Alcohol resistant foam.

Unsuitable extinguishing media :

Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Fire can cause thick, black smoke. Thermal decomposition can lead to release of irritating and toxic gases and vapours: Carbon monoxide (CO). Monomer (2-Oxepanone, Hexan-6-olide, CAS 502-44-3). Exposure to combustion or decomposition products can be harmful to your health.

5.3 Advice for fire fighters

Fire fighting measures

Wear a self-contained breathing apparatus and chemical protective clothing.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing gases from molten filament. Ensure adequate ventilation, especially in confined areas.

6.2 Environmental precautions

Do not allow to enter public sewers and watercourses.

6.3 Methods and materials for containment and cleaning up

Use mechanical handling equipment. Keep in suitable, closed containers for disposal. Clean contaminated surface thoroughly.

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7. Handling and storage

7.1 Handling

Avoid contact with molten material. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures

Prevention of Fire and Explosion:

Not available

7.2 Conditions for safe storage, including any incompatibilities

Keep container closed.

Protect from direct sunlight and all heat sources in order to avoid sticking and melting of the filament.

Store container in a well dry/cool place.

Keep away from waterways and sewers.

Keep away from any source of ignition.

Other precautions:

Avoid contamination of foods.

Avoid inhalation of dust during the processing of the resin

8. Exposure controls/personal protection

8.1 Control parameters

Dnel: Dnel/Dmel- values are not available.

PNEC: PNEC- values are not available.

8.2 Exposure controls

Engineering measures

Provide adequate ventilation while printing.

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9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--|---|
| Appearance | Solid Filament |
| Odour | Neutral |
| Colour | depending on product grade |
| Odour threshold | No information available |
| pH | Not applicable |
| Melting/freezing point | 60-65°C/ - |
| Initial boiling point and boiling range | Not applicable |
| Flash point | No information available |
| Evaporation rate | Not applicable |
| Flammability (solid, gas) | No information available |
| Upper/lower flammability or explosive limits | UEL: No data available LEL: No data available |
| Vapour pressure | Not applicable |
| Vapour density | Not applicable |
| Relative density | Not measured |
| Solubility(ies) | Insoluble in water Soluble in organic solvents |
| Partition coefficient (n-octanol/water) | Not available |
| Auto-ignition temperature | not self-igniting |
| Decomposition temperature | >200 °C |
| Viscosity | Not applicable |
| Explosive properties | No information available |
| Oxidizing properties | No information available |

10. Stability

10.1 Reactivity:

The product is stable and non-reactive under normal conditions of use, storage and transport.

10.2 Chemical stability:

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions:

None under normal processing.

10.4 Conditions to avoid:

Avoid elevated temperatures for prolonged periods of time.

10.5 Incompatible materials:

Avoid contact with acids, bases and Strong oxidizing materials.

10.6 Hazardous decomposition products

Possible decomposition and release of monomer at temperatures above 200°C.

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11. Toxicological information

11.1 Information on toxicological effects

| | |
|------------------------------------|--------------------|
| Acute toxicity: | Not known. |
| Skin corrosion/irritation: | Not irritating. |
| Serious eye damage/eye irritation: | No data available. |
| Respiratory or skin sensitization: | No sensitization. |
| Reproductive toxicity: | Negative. |
| Carcinogenicity: | No data available. |

12. Ecological information

- 12.1 Toxicity**
No data available.
- 12.2 Persistence and degradability**
Difficult to degrade.
- 12.3 Bioaccumulative potential**
No data available.
- 12.4 Mobility in soil**
No data available.
- 12.5 Results of PBT and vPvB assessment**
No data available.
- 12.6 Other adverse effects**
No data available.

13. Disposal considerations

13.1 Waste treatment methods

Advice on disposal and packaging: Disposal in accordance with local and national regulations.

Thoroughly emptied and clean packaging may be recycled.

Waste codes / waste designations according to EWC / AVV

Waste from residues/unused products: 16 03 06.

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14. Transport information

14.1 UN number

Not regulated as a hazardous material.

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing Group

Not applicable

14.5 Environmental hazards

No additional data is available

14.6 Special precautions for user

No data available

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not evaluated

15. Regulatory information

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

EU regulation (EC) 1907/2006 (Reach) ANNEX XVII (restrictions) Not applicable.

European Union Not applicable.

France Occupational Illnesses (R-463-3, France) Not applicable

Germany Water hazard class (WGK) Water endangering class = 1 (self classification)

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out

16. Other information

Information is referenced from other manufacturers.

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

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 and Regulation (EC) No. 2015/830. Label element according to Regulation (EC) No 1272/2008.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.