



Preparation date: 29-05-2017 Version No.: 2.0

MATERIAL SAFETY DATA SHEET

according to Regulation (EU) No. 1907/2006

PP by Innofil3D BV

1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

Trade name : Innofil3D PP
Chemical name : Polypropylene

Chemical family : Thermoplastic polymer

Use : Monofilament for 3D-printing

Company : Innofil3D BV

Street address : Eerste Bokslootweg 17
Postal code and city : 7821 AT Emmen
Country : The Netherlands

Telephone number : +31 (0) 591 820 389

2. HAZARDS IDENTIFICATION

Clasification

Regulation (EC) No

1272/2008

The product is not classified according to the CLP regulation.

Directive 67/548/CEE : Not classified Directive 1999/45/CE : Not classified

EC guidlines : According to the method of calculating the "General Classification

Guideline for the Production of the EC" in the latest valid version,

the product does not require labelling.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name : 1-butene, ethene polymer, 1-propene

Weight : 99.5%

4. FIRST-AID MEASURES

Eye contact : Rinse opened eyes for several minutes under running water. If

symptoms persist, consult a doctor. Remove contact lenses.

Continue rinsing.



Skin contact : Wash with soap and water. Visit a doctor if irritation continues in

the skin. After contact with molten product, cool rapidly with cold water. Do not separate the skin from the solidified product. Call a

doctor immediately.

Inhalation : Supply fresh air. In case of disturbances, consult a doctor. After

inhalation of decomposition products, breathe fresh air, rest,

seek for medical help.

Ingestion : Rinse mouth and drink plenty of water. Do not induce vomiting.

Consult a doctor in case of persistent symptoms.

Note to physician : Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Any method is applicable.

Unsuitable media : Throw water with strong pressure. Carbon dioxide CO₂.

Hazardous decomposition

products

: Formation of toxic gases if heated or fire. Irritant gases/vapors.

Smoke, Carbon Monoxide (CO), Carbon Dioxide (CO2) and

Carbonic hydrogen.

Special protective equipment

for firefighters

Wear protective breathing apparatus independent of the ambient

air.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Avoid dust formation. Do not breathe dust. Keep away from

sources of ignition. Avoid eye contact. Danger of slipping on

spilled product or pouring.

Environmental precautions

Methods for cleaning up

: Do not discharge into drains/surface water/ground water.

Allow to solidify, pick up mechanically. Dispose of the material

collected according to regulations.

7. HANDLING AND STORAGE

Safe handling advice : Ensure good ventilation/exhaustion. Avoid dust formation. Do not

inhale fumes/dust produced. Remove regularly dust that inevitably form. Avoid contact with the eyes and skin. Avoid

contact with the product when heated.

Storage conditions : Keep in a dry and dark place. Store between 10 and 40 °C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters : Components with admissible limit values that require monitoring

at the workplace: do not exceed the values for dust

concentration. Additional: Based on references valid at the time

of processing.





Personal protective equipment

Eye protection : Not necessary.

Skin and body protection : Not necessary.

Respiratory protection : Not necessary.

Hand protection : Not necessary. When material is molten, use protective gloves.Hygiene measures : Do not eat, drink, smoke of sniff during working with the material.

Do not breathe dust/smoke/mist. Avoid contact with eyes and skin. Wash hand before and after working with the material.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Filaments.

Color : Semi-transparent natural.

Physical state : Flexible but solid at room temperature.

Odor : Odorless.

Melting point/range : 220-240 °C

Boiling point/range : Not applicable.

Decomposition temperature : Not applicable.

Density : 1.05

pH : Not applicable.
Vapor pressure : Not applicable.
Vapor density : Not applicable.
Evaporation rate : Not applicable.

10. STABILITY AND REACTIVITY

Stability : Stable.

Conditions to avoid : Avoid impact, friction, heat, sparks, and electrostatic charges.

Materials to avoid : Strong oxidants.

Decomposition : Irritant/toxic gases/vapors. Smoke. Carbon monoxide (CO) and

Carbon dioxide (CO₂)

Polymerization : Non applicable.





11. TOXICOLOGICAL INFORMATION

Long term toxicity : No data.

Toxicological effects : Based on our current information and knowledge, the product

does not cause any adverse health effects when handled properly.

Also there are no carcinogenic, mutagenic and toxic effects

known.

Skin : Dust may cause mechanical irritation.

Eye : Dust may cause mechanical irritation.

12. ECOLOGICAL INFORMATION

Mobility : Bioconcentration is not expected because of the high molecular

weight (MW > 1000). In the terrestrial environment, material is

expected to remain in the soil. In the aquatic environment

material will sink and remain in the sediment.

Ecotoxicity effects : It is not expected to be very toxic, but if ingested by birds or

aquatic life, can cause adverse mechanical effects

Persistence and

degradability

This solid water-insoluble polymeric are expected to be inert in the environment. Surface degradation is expected with exposure to

sunlight. Appreciable biodegradation is not expected.

13. DISPOSAL CONSIDERATIONS

Methods for treating waste

Recommendation : Disposal according to official regulations.

European waste catalog : Allocation of waste codes according to the European waste list

depends on the source generating the waste.

Contaminated packaging : Disposal according to official regulations.

14. TRANSPORT INFORMATION

IMDG : Not regulated. ICAO/IATA : Not regulated.





15. REGULATORY INFORMATION

NOTICE: The information herein is presented in good faith and believed to be accurate as of the print date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. See other sections for health and safety information.

EU regulation 10/2011 : Approved. FDA : Approved. Regulation (EC) No. : Compliant.

1935/2004

2023/2006/EC GMP : Compliant.

16. OTHER INFORMATION

- The information in this Material Safety Data Sheet (MSDS) is mainly based on information used from the supplier of the raw materials which are used for production of the filaments.
- The information in this Material Safety Data Sheet (MSDS) is based on current knowledge and experience. No liability can be assumed for the accuracy and completeness of this information.
- Users should consider this information only as additional to other data gathered. Independent determination of suitability and completeness of information from all available sources is essential to ensure proper and safe use and disposal of these materials.
- The information in this MSDS applies for this specific material only. It therefor does not apply for its usage in combination with other materials or ways of processing.