MATERIAL SAFETY DATA SHEET

ReForm rPP Wood UV
Date of issue: 16-01-2026 **/ Date of update:** 16-01-2026

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

1.1. Product identification

Product name: ReForm rPP Wood UV

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

Identified uses: Pellets for LFAM & FGF 3D printing / Filament for FDM 3D printing.

1.3. Data on the supplier of the safety data sheet

Supplier: FormFutura BV
Address: Tarweweg 3, 6534 AM, Nijmegen, the Netherlands
Phone: +31 (0)88 743 4000
Email: product.compliance@formfutura.com

1.4 **Emergency telephone number** 112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product is not classified as hazardous for human life and health and for the environment. Product is not classified according to the Regulation of the EP and EC Council No. 1272/2008.

2.2 Label elements

Markings according to EC guidelines: 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 labeling. The normal safety measures for handling chemicals should be observed.

- **Hazard pictograms and signal words:** None
- **Names of substances mentioned on label:** None
- **Hazard statements:** None
- **Precautionary statements:** None

2.3 Other hazards

The substances contained in the product do not meet criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation. The product does not contain substances included in the list established in accordance with Article 59 (1) for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1 % by weight.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2 Mixtures

Product based on Polypropylen [CAS 9010-79-1]. Product does not contain components which are classified as hazardous. Product does not contain components with European Union level exposure limit in the workplace.

SECTION 4: First aid measures

4.1. Description of first aid measures

Eye contact: During printing process: splashes of liquid material may cause burns. Put on sterile dressing. Contact an ophthalmologist immediately.

Skin contact: During printing process: possible thermal burns. Rinse damaged skin with cold water. Put on sterile dressing. Contact doctor.

Inhalation: During printing process: remove the victim to fresh air. Keep warm and calm. Consult a doctor, if disturbing symptoms occur.

Ingestion: Exposure by this route does not typically occur. If swallowed, rinse mouth with water. Do not induce vomiting. Contact a doctor, show container or label.

4.2. Most important symptoms and effects, both acute and delayed

- Skin contact: contact with the product at high temperature may cause severe burns.
- Eye contact: there are no significant effects or critical hazards reported under normal conditions of use
- Inhalation: prolonged inhalation of fumes evolved during the printing process may cause headaches, poor concentration, exhaustion..

4.3. Indication of any immediate medical attention and special treatment needed

Physician makes a decision regarding further medical treatment after thoroughly examination of the injured. Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing agents

Suitable extinguishing media:
Foam, dry powder, in case of a large fire use water spray.

Unsuitable extinguishing media:
Water jet – risk of fire propagation

5.2. Specific hazards associated with a substance or mixture

During combustion a dense smoke develops. Dangerous carbon oxides may occur (CO and CO_2).

Creation of dust particles can occur in devices used for transporting the product (e.g. during filling or emptying storage bins, tanks, hoppers, etc.). Cumulating of dust particles into bigger amounts may result in their inflammation or explosion due to induced static charge and thus it is necessary to equip such places with an appropriate static charge lead.

5.3. Information for the firefighters

Personal protection typical in case of fire. Do not stay in the fire zone without self-contained breathing apparatus and protective clothing resistant to chemicals. Do not let extinguishing water to reach drainage system, surface water and groundwater. Collect used extinguishing media.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Handle in accordance with good occupational hygiene and safety practices. Ensure that effects of the breakdown are removed only by qualified personnel. Ensure adequate ventilation. Avoid inhalation of fumes evolved during the printing process.

Spilled granulate may cause slipping and fall of persons. Do not stay in areas where polymeric dust has been whirled up in order not to inhale it. Avoid skin contact and eye contact with melted polymer.

6.2. Environmental precautions

In case of release of large amounts of the product, it is necessary to take appropriate steps to prevent it from spreading into the environment.

6.3. Methods and materials preventing the spread of contamination and used for cleaning up

Collect mechanically. Collected material should be reused or treated as a waste.

6.4. Reference to other sections

Appropriate conduct with waste product – section 13. Personal protective equipment – see section 8.

SECTION 7: Handling and storage

7.1. Safe handling advice

Observe all fire protection measures (work with open flame is prohibited, remove all possible sources of ignition, smoking is prohibited). During the product's thermal treatment small amounts of volatile hydrocarbons may be released. Thus suction and discharge of hydrocarbons must be locally secured. Dust from the product represents a potential explosion hazard and as such it must be continuously removed. All devices must be properly grounded.

7.2. Storage

Store pellets / filament only in a cool, dry place protecting against weather (direct sunlight, frost, precipitation etc.). Protect from sources of fire and naked flames. Do not store with incompatible materials (see subsection 10.5).

7.3. Specific end use(s)

No information about uses other than mentioned in subsection 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The highest permissible exposure limit for total concentration of polypropylene dust in air in the workplace is 5 mg.m-3.

Please check any national occupational exposure limit values in your country.

Legal Basis: Commission Directive 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, 2019/1831/EU.

8.2. Exposure controls

Engineering measures:
Observe good occupational hygiene and safety practices. Do not eat, drink or smoke when using the product. Wash hands thoroughly before breaks and after work.
Where possible, local exhaust ventilation and good general room ventilation should be used.
Provide adequate exhaust ventilation in places of dust formation. Recommended method for determination of polypropylene dust in workplace air: gravimetry, dustmeter.

Individual protection measures, such as personal protective equipment:
The necessity to use and selection of appropriate personal protective equipment should take into account the type of risk created by the product, conditions at the workplace and the manner of handling the product. The personal protective equipment used must meet the requirements of Regulation (EU) 2016/425 and the relevant standards.

General safety and hygiene:
Keep away from foodstuffs, beverages, and food.
Do not eat, drink, smoke.
Do not breathe dust / smoke.
Avoid contact with eyes and skin.
Wash hands before breaks and after work.

Breathing equipment:
Under normal conditions of use is not required. In emergency situation, when exposed to high concentrations of fumes evolved in printing process appropriate respiratory protective equipment should be worn.

Hand and body protection:
Use protective gloves and protective clothing if a risk assessment indicates this is necessary (EN 374).

Eye protection:
Use tightly fitting protective glasses if risk assessment indicates that it is necessary (EN ISO 16321-1:2022-10).

Thermal hazards:
If contact with the hot product is expected, use heat-resistant gloves in accordance with EN 407 standard.

Environmental exposure controls:
Avoid release of large amounts of the product to groundwater, drainage system or soil.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Solid
Appearance:	Wire, filament, or pellets.
Color:	According to assortment.
Odor:	Odorless.
pH:	Not determined.
Vapor pressure:	Not determined.
Vapor density:	Not determined.
Evaporation rate:	Not determined.
Partition Coefficient (n-octanol/water):	Not determined.
Density:	0,9-0,91 g/cm^3
Decomposition temperature:	Not determined.
Boiling point / boiling range:	Not determined.
Melting point / melting range:	158 - 165 °C.
Autoignition temperature:	Not determined.
Freezing point:	Not determined.
Flash point:	380 - 390 °C.
Flammability:	non-flammable mixture.
Flammability Limits in Air:	No information available.
Water solubility:	insoluble.
Solubility in other solvents:	Not determined
Solubility:	No information available.
Other Standards:	None

9.2. Other information
No additional test results.

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
The product is stable under normal conditions of handling and storage.

10.3. Possibility of hazardous reactions
No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid
At normal temperature, the product itself is stable, without chemical reactivity.
Avoid temperatures above 300°C, fire and flash sources, and static electricity.

10.5. Materials to avoid

Strong oxidizing agents.

10.6. Hazardous decomposition products

At high temperatures, under presence of air or oxygen, decomposition starts producing CO, CO_2 and H_2O.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

- **Principle routes of exposure:** Skin contact, Eye contact, Inhalation, Ingestion.
- **Acute toxicity:** Based on available data, the classification criteria are not met.
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitization** 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.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **Information on likely routes of exposure** Routes of exposure: skin contact, eye contact, inhalation. See subsection 4.2 for more information on the effects from each possible route of exposure.
- **Symptoms related to the physical, chemical and toxicological characteristics** Long-lasting inhaling of its decomposition products can cause headache or may irritate the respiratory system.
- **Delayed and immediate effects as well as chronic effects from short and long-term exposure** No data.

11.2. Information on other hazards

- **Endocrine disrupting properties** The product does not contain substances included in the list established in accordance with Article 59 (1) for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1 % by weight.
- **Other information** No data.

SECTION 12: Ecological information

12.1. Ecotoxicity effects

Product is not classified as hazardous for the environment.

12.2. Persistence and degradability

Within the environment, it is an extraneous substance with a very slow decomposition.

12.3. Bioaccumulation

No data available.

12.4. Mobility in soil
Product is not mobile in soil.

12.5. Results of PBT and vPvB assessment
Product does not contain ingredients, which meet criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.

12.6. Endocrine disrupting properties
The product does not contain substances included in the list established in accordance with Article 59 (1) for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1 % by weight..

12.7. Other adverse effects
Product has no influence on global warming and destruction of the ozone layer. Consider other harmful effects of individual components of the mixture on the environment (eg., global warming potential).

SECTION 13: Disposal considerations
13.1. Waste treatment methods
If unwanted spillage of the product – polymeric granulate – occurs, make sure it does not enter the sewer system where it can cause mechanical stoppage. Securing its mechanical collection and removal is needed, either for further processing, recycling, or for landfilling its correct combustion does not require any special chimney. Exploitation should be in line with local legal regulations for waste disposal and handling.

Waste product should be recovered or disposed of in authorized incineration plants or waste facility in accordance with local regulations.

Material evaluation by recycling R 3, energetic evaluation R 1, – usage as fuel.

Legal basis: Directive 2008/98/EC as amended, 94/62/EC as amended.

SECTION 14: Transport information
14.1. UN number or ID number
Not applicable. Product is not classified as dangerous during transportation.

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
Not applicable.

14.6. Special precautions for user
Not applicable.

14.7. Maritime transport in bulk according to IMO instruments
Not applicable.

SECTION 15: Regulatory information

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

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC as amended.

Commission Regulation (EU) No 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 as amended.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste as amended.
Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives as amended.

Regulation (EU) No 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.

Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC.

Commission Directive 2009/161/EU of 17 December 2009 establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.

Commission Directive 2017/164/EU of 31 January 2017 establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU.

Commission Directive 2019/1831/EU of 24 October 2019 establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.

15.2. Chemical safety assessment

It is not necessary to carry out a chemical safety assessment for mixture.

SECTION 16: Other information

Access to information:
Employer is obliged according to the Article 35 of the Regulation of the EP and Council (EC) No.1907/2006 to make information from the Data Sheet accessible to all employees who use this product, or who are exposed to its effects during the work as well as to representatives of these employees.

H – statements: not applicable

P – statements: 210, 260
- **P210** – Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
- **P260** – Do not breathe dust/fume/gas/mist/vapours/spray.

Explanations of abbreviations:
- **CLP:** Regulation No. 1272/2008
- **IATA:** International Air Transport Association
- **IMDG:** International Maritime Dangerous Goods
- **IMO:** International Maritime Organisation
- **PBT:** Persistent, Bioaccumulative, Toxic
- **REACH:** Registration, Evaluation and Authorisation of Chemicals
- **vPvB:** very Persistent, very Bioaccumulative
- **STEL:** Short-Term Exposure Limit
- **LD50:** Lethal Dose
- **LC50:** Lethal Concentration
- **EC50:** Effective Concentration 50%
- **DNEL:** Derived No-Effect Level
- **PNEC:** Predicted No-Effect Concentration
- **OEL:** Occupational Exposure Limit
- **ADR:** Agreement concerning the Internatinal Carriage of Dangerous Goods by Road
- **AND:** European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
- **RID:** regulations for international transport of dangerous goods by rail
- **MARPOL:** International Convention for the Prevention of Pollution from Ships

Disclaimer:
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