

**Material Safety Data Sheet**  
 In according to the Regulation (CE) n. 1907/2006 REACH  
 Issue date: 08/04/16  
 Data Sheet B3251000 in Rev. n. 0

**1. Identification of the Product and of the Company**

**Product name:** WOOD  
**Code number:** B3251000  
**Product description:** 3D printing filament  
**Company name:** Olivetti S.p.A.  
 Via Jervis 77  
 10015 Ivrea (TO) - ITALY  
**For information:** Tel. 0039 (0)125 775710  
 Fax 0039 (0)125 775711  
 e-mail : [supplies@olivetti.com](mailto:supplies@olivetti.com)  
**For emergency:** Centro Antiveleni-Ospedale Niguarda (Milano)  
 0039 (0)2 66101029

**2. Hazards identification**

**Classification according to Regulation (EC) No. 1272/2008 [CLP]** Not classified as dangerous.

**Labelling according to Regulation (EC) No. 1272/2008 [CLP]** No labelling is applicable

**Potential health effects:**

May cause eye/skin irritation. Burning produces obnoxious and toxic fumes.  
 Avoid contact with skin and eyes. Avoid formation of dust and aerosols.  
 Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.  
 Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough.

**Flammability:** Fine dust dispersed in air may ignite

**3. Composition/information on ingredients**

Name	Product identifier	Classification (67/548/EEC)	Classification (Regulation (EC) No 1272/2008 CLP)	Concentration [%]
Poly lactide resin	N.A.	Not classified	Not classified	N.A.
Processing additives	N.A.	Not classified	Not classified	N.A.
Wood dust	N.A.	Not classified	Not classified	N.A.

\* Occupational Exposure Limits are listed in section 8.



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#### **4. First – aid measures**

##### **Description of first aid measures**

**General advice:** First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection).

**Inhalation:** Move person to fresh air; if effects occur, consult a physician.

**Skin Contact:** Rinse immediately with plenty of water for at least 15 minutes. If skin irritation persists, consult a physician. Cool skin rapidly with cold water after contact with hot polymer.

**Eye Contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician.

**Ingestion:** Drink water as a precaution. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. Call a physician.

##### **Most important symptoms and effects, both acute and delayed**

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), no additional symptoms and effects are anticipated.

##### **Indication of medical attention and special treatment needed**

If burn is present, treat as any thermal burn, after decontamination. If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

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### 5. **Fire – fighting measures**

<b>Flammability:</b>	Autoignition temperature 350°C
<b>Suitable Extinguishing Media:</b>	Foam. Water. CO <sub>2</sub> . Dry chemical. Alcohol resistant foams are preferred if available.
<b>Hazardous decomposition products:</b>	Burning produces obnoxious and toxic fumes, Aldehydes, Carbon Monoxide (CO), Carbon Dioxied (CO <sub>2</sub> )

**Advice for firefighters:**

**Fire Fighting Procedures:** Keep people away. Isolate fire and deny unnecessary entry. Soak thoroughly with water to cool and prevent re-ignition. If material is molten, do not apply direct water stream. Use fine water spray or foam. Cool surroundings with water to localize fire zone. Hand held dry chemical or carbon dioxide extinguishers may be used for small fires.

**Special Protective Equipment for Firefighters:** Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

### 6. **Accidental release measures**

<b>Personal precautions:</b>	Spilled material may cause a slipping hazard. Use appropriate safety equipment
<b>Environmental precautions:</b>	Prevent from entering into soil, ditches, sewers, waterways and/or groundwater
<b>Methods for Cleaning-up:</b>	Sweep up. Collect in suitable and properly labeled containers.

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## 7. Handling and storage

**Handling:** No smoking, open flames or sources of ignition in handling and storage area. Good housekeeping and controlling of dusts are necessary for safe handling of product. Avoid breathing process fumes. Use with adequate ventilation. When appropriate, unique handling information for containers can be found on the product label. Workers should be protected from the possibility of contact with molten resin. Do not get molten material in eyes, on skin or clothing. Pneumatic conveying and other mechanical handling operations can generate combustible dust. To reduce the potential for dust explosions, electrically bond and ground equipment and do not permit dust to accumulate. Dust can be ignited by static discharge.

**Storage:** Store in accordance with good manufacturing practices, in cool place and far from direct sunlight.

## 8. Exposure controls/personal protection

### Personal protection

**Eye/Face Protection:** Use safety glasses (with side shields). Safety glasses (with side shields) should be consistent with EN 166 or equivalent. If there is a potential for exposure to particles which could cause eye discomfort, wear chemical goggles. Chemical goggles should be consistent with EN 166 or equivalent. If exposure causes eye discomfort, use a full-face respirator.

**Skin Protection:** No precautions other than clean body-covering clothing should be needed.

**Hand protection:** Chemical protective gloves should not be needed when handling this material. Consistent with general hygienic practice for any material, skin contact should be minimized. Use gloves with insulation for thermal protection (EN 407), when needed. Use gloves to protect from mechanical injury. Selection of gloves will depend on the task.

**Respiratory Protection:** Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. Use an approved air-purifying respirator when vapors are generated at increased temperatures or when dust or mist is present. Use the following CE approved air-purifying respirator: When dust/mist are present use a/an Particulate filter, type P2. When combinations of vapors, acids, or dusts/mists are present use a/an Organic vapor cartridge with a particulate pre-filter, type AP2.

### Engineering Controls

**Ventilation:** Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations.

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### 9. **Physical and chemical properties**

<b>Physical state:</b>	Solid
<b>Colour:</b>	Opaque
<b>Odour:</b>	Sweet
<b>pH:</b>	N.A.
<b>Boiling point (°C):</b>	N.A.
<b>Melting point (°C):</b>	N.A.
<b>Flash Point (°C) :</b>	N.A.
<b>Auto-Ignition Temperature (°C):</b>	N.A.
<b>Upper/ lower flammability or explosive limits:</b>	N.A.
<b>Explosion Properties:</b>	N.A.
<b>Evaporation rate:</b>	N.A.
<b>Vapor Pressure:</b>	N.A.
<b>Vapor density:</b>	N.A.
<b>Specific Gravity:</b>	1.25 g/cc
<b>Solubility:</b>	Insoluble in water
<b>Partition Coefficient, n-Octanol/Water:</b>	N.A.
<b>Decomposition temperature:</b>	250 °C

### 10. **Stability and reactivity**

<b>Reactivity:</b>	No dangerous reaction known under consideration of normal use
<b>Chemical stability:</b>	Stable
<b>Possibility of hazardous reactions:</b>	Polymerization will not occur
<b>Conditions to avoid:</b>	Avoid temperatures above 230°C. Exposure to elevated temperatures can cause product to decompose
<b>Incompatible materials:</b>	Oxidizing agents. Strong bases.
<b>Hazardous decomposition products:</b>	Burning produces obnoxious and toxic fumes: Aldehydes, Carbon Monoxide (CO), Carbon Dioxide (CO <sub>2</sub> )

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### **10. Toxicological information**

**Principle routes of exposure:** Eye contact. Skin contact. Inhalation. Ingestion.

**Acute toxicity:** there were no target organ effects noted following ingestion or dermal exposure.

**Local Effects:** may cause eye/skin irritation. Product dust may be irritating to eyes, skin and respiratory system. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Long term toxicity:** none

**Specific effects:** may cause skin irritation or dermatitis. Burning produces irritant fumes.

**Mutagenic effects:** none

**Reproductive toxicity:** no data available

**Carcinogenic effects:** no data available

**Target organ effects:** none

### **11. Ecological information**

#### **Bioaccumulative potential**

Doesn't bioaccumulate. Inherently biodegradable.

#### **Mobility in soil**

In the terrestrial environment, material is expected to remain in the soil.  
In the aquatic environment, material will sink and remain in the sediment.

### **12. Disposal considerations**

#### **Waste treatment methods**

For uncontaminated material the disposal options include mechanical and chemical recycling or energy recovery. In some countries landfill is also allowed. For contaminated material the options remain the same, although additional evaluation is required. For all countries the disposal methods must be in compliance with national and provincial laws and any municipal or local by-laws. All disposal methods must be in compliance with the EU framework Directives 2008/98/EC and their subsequent adaptations, as implemented in National Laws and Regulations, as well as EU Directives dealing with priority waste streams. Transboundary shipment of wastes must be in compliance with Regulation (EC) No 1013/2006 and subsequent modifications.

### **14. Transport information**

Not Classified – not regulated as hazardous material.

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**15. Regulatory information**

EU Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

- Regulation (EC) No 2037/2000 of the European Parliament and of the Council on Substances That Deplete the Ozone Layer: Not applicable
- Regulation (EC) No 850/2004 of the European Parliament and of the Council on Persistent Organic Pollutants and Amending Directive 79/117/EEC (POPs): Not applicable
- Regulation (EU) No 649/2012 of the European Parliament and of the Council on Concerning the Export and Import of Dangerous Chemicals (PIC): Not applicable
- Directive 2012/18/EU of the European Parliament and of the Council on the Control of Major-Accident Hazards Involving Dangerous Substances, Amending and Subsequently Repealing Council Directive 96/82/EC, (Seveso III): Not applicable
- Regulation (EC) No 1907/2006 of the European Parliament and of the Council:
  - Annex XIV- List of Substances Subject To Authorization: Not applicable
  - Annex XVII- Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles: Not applicable

For this product a chemical safety assessment was not carried out.

**16. Other information**

This Material Safety Data Sheet was prepared in according to the Regulation (CE) n. 1907/2006 REACH and Regulation EC n°1272/2008.

This information adds to those contained in the 'Instructions of use' for same product, but does not substitute them.

The information contained herein relates only to the referred product as manufactured and put into the market, and is not valid for other combinations of same materials.

It is the user's responsibility to determine the suitability of such information for his intended use.