

Material Safety Data Sheet
In according to the Regulation (CE) n. 1907/2006 REACH
Printing: 22/06/2016 Data sheet: B3313000in Rev. n. 0

1. Identification of the Product and of the Company

Product name: PLA Renegade
Code number: B3313000
Product description: Filament for 3D printer
Company name: Olivetti S.p.A.
Via Jervis 77
10015 Ivrea (TO) - ITALY
For information: Tel. +39 0125 775710
Fax +39 0125 775711
e-mail : supplies@olivetti.com
For emergency: Centro Antiveleni-Ospedale Niguarda (Milano)
+39 02 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 applicable

3. Composition/information on ingredients

Substance [] Preparation [X]

Chemical name	CAS-No. EC-No. Index No.	Classification (67/548/EEC)	Classification (Regulation (EC) No 1272/2008)	Concentration [%]
Polylactique acide (PLA)	9051-89-2 - -	Not classified	Not classified	> 90

* Occupational Exposure Limits, if available are listed in section 8.

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4. **First – aid measures**

Inhalation:	Remove to fresh air and keep warm and at rest.
Ingestion:	Rinse mouth. Do NOT induce vomiting. SEEK MEDICAL ATTENTION IMMEDIATELY.
Skin contact:	Wash with plenty soap and water
Eye contact:	In case of contact with eyes, rinse immediately with water and seek medical advice.
Most important symptoms and effects, both acute and delayed:	None

5. **Fire- fighting measures**

Suitable extinguishing Media:	Water, Carbon dioxide (CO ₂)
Unsuitable extinguishing Media:	No one in particular.
Special hazards arising from the substance or mixture:	Do not inhale explosion and combustion gases. Burning produces heavy smoke.
Advice for firefighters:	Use suitable breathing apparatus. Collect separately the contaminated water used to extinguish the fire. Do not be discharged into drains. If it is safe, move from immediate hazard undamaged containers.

6. **Accidental release measures**

Personal precautions:	Wear personal protective equipment. Remove sources of ignition.
Environmental precautions:	Avoid spilling into the environment
Methods for Cleaning-up:	Use mechanical handling equipment without creating dust. Collect the spilled product.

NOTE: See section 8 for personal protective equipment

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7. Handling and storage

- Handling:** Avoid contact with skin and eyes, inhalation of vapors and mists.
At work do not eat or drink.
- Storage:** Keep away from food and drink. Store in a well-ventilated location

8. Exposure controls/personal protection

- Appropriate engineering controls:** None
- Hand protection:** Not required for normal use.
- Eye protection:** Not required for normal use.
Anyway, operate according good working practices.
- Respiratory protection:** Not needed for normal use.
- Skin protection:** It is not required the adoption of any special precautions for the normal use

9. Physical and chemical properties

- Appearance:** Cylindrical filament
- Color:** Natural
- Odour:** Light, Characteristic
- pH:** N.A.
- Melting point/Freezing point (°C):** 160÷240 °C
- Flash Point (°C):** N.A.
- Auto-Ignition Temperature (°C):** N.A.
- Flammability (solid, gas):** N.A.
- Upper/ lower flammability or explosive limits:** N.A.
- Explosion Properties:** N.A.
- Evaporation rate:** N.A.
- Vapour Pressure:** N.A.
- Relative density:** 1.10÷1.55 g/cm³
- Solubility:** Insoluble
- Oil solubility:** N.A.
- Partition coefficient (n-octanol / water):** N.A.
- Viscosity:** N.A.
- Oxidizing properties:** N.A.

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10. **Stability and reactivity**

Reactivity:	Stable under normal conditions
Chemical stability:	Stable under normal conditions
Possibility of hazardous reactions:	None
Conditions to avoid:	Stable under normal conditions
Materials to avoid:	No one in particular
Hazardous Decomposition Products:	Tetrahydrofuran

11. **Toxicological information**

In the polymer blend the dangerous ingredients are completely incorporated and surrounded by the polymer matrix, the exposure and the risk related to them are deleted.
Therefore the mixture is not dangerous for health and for the environment in the form in which it is marketed.

12. **Ecological information**

Toxicity:	Adopt good working practices, avoiding release of the product in the environment
Persistence and degradability:	N.A.
Potential of bioaccumulation:	N.A.
Mobility:	N.A.

13. **Disposal considerations**

Recover if possible. Operate according to local and national regulations.

14. **Transport information**

UN No:	No dangerous goods as defined by the transport regulations.
UN Shipping Name:	N.A.
UN Classification:	N.A.
UN Packaging Group:	N.A.
Special Precaution:	N.A.

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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 EC Regulation 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.