

**Material Safety Data Sheet**  
**In according to the Regulation (CE) n. 1907/2006 REACH**  
Issue date: 18/12/15  
Data sheet B3253 in Rev. n. 0

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

<b>Product name:</b>	<b>PLA LAYER BLACK</b>
<b>Code number:</b>	<b>B3253</b>
<b>Product description:</b>	Cylindrical thread 3D printer
<b>Company name:</b>	Olivetti S.p.A. Via Jervis 77 10015 Ivrea (TO) - ITALY
<b>For information:</b>	Tel. 0039 (0)125 775710 Fax 0039 (0)125 775711 e-mail : <a href="mailto:supplies@olivetti.com">supplies@olivetti.com</a>
<b>For emergency:</b>	Centro Antiveleni-Ospedale Niguarda (Milano) 0039 (0)2 66101029

**2. Hazards identification**

**Classification of the substance or mixture**

**Label elements**

Physical and chemical effects dangerous to human health and the environment: No other hazards.

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

EU LABELING: free of labeling in accordance with Reg. (EC) 1272/2008 - Annex I Section 1.3.4. The product is not considered dangerous according to EC Regulation 1272/2008 (CLP). Symbols: No 1 Hazard Statements: None Precautionary Statements: No Special Provisions: No Special provisions according to Annex XVII of the REACH and following adjustments: No

**Other hazards**

VPvB Substances: None - PBT Substances: None Other

**3. Composition / information on ingredients**

**Substances:**

Concentration (%)> 90% CAS CAS: 9051-89-2 EINECS or ELINCS the product is a polymer, as a result of European regulation, registration is EINECS (European Inventory of Existing Commercial Chemical Substances) inventory is not required. Hazardous substances to health no one to our knowledge. The product is not considered dangerous according to EC Regulation 1272/2008 (CLP).

\* Limits of occupational exposure, if available are listed in section 8.



**Material Safety Data Sheet**  
**In according to the Regulation (CE) n. 1907/2006 REACH**  
*Issue date: 18/12/15*  
*Data sheet B3253 in Rev. n. 0*

#### **4. First – aid measures**

<b>Inhalation:</b>	Move the victim to fresh air and keep warm and at rest.
<b>Ingestion:</b>	Do not induce vomiting. SEEK MEDICAL ATTENTION IMMEDIATELY.
<b>Skin contact:</b>	Wash thoroughly with soap and water.
<b>Eye contact:</b>	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
<b>Most important symptoms and effects, both acute and delayed:</b>	Nobody
<b>Indication of any immediate medical attention and special treatment:</b>	Treatment: None.

#### **5. Fire – fighting measures**

<b>Extinguishing Media:</b>	Suitable extinguishing media: Water. Carbon dioxide (CO <sub>2</sub> ). Extinguishing media which must not be used for safety reasons: None in particular.
<b>Special hazards arising from the substance or mixture</b>	Do not inhale explosion and combustion gases. Burning produces heavy smoke.
<b>Advice for firefighters</b>	Use suitable breathing apparatus. Collect separately contaminated water used to extinguish the fire. Not be discharged into drains. If feasible in terms of safety, to move from immediate hazard undamaged containers.

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

<b>Personal protection:</b>	Wear protective equipment. Remove all sources of ignition. See protective measures under point 7 and 8.
<b>Environmental precautions:</b>	Prevent discharges into the environment.
<b>Methods and materials for containment and cleaning</b>	Use mechanical handling equipment, avoiding disperse dust. Collect spillage.

NOTE: see section 8 for personal protective equipment and section 13 for waste disposal.

**Material Safety Data Sheet**  
**In according to the Regulation (CE) n. 1907/2006 REACH**  
Issue date: 18/12/15  
Data sheet B3253 in Rev. n. 0

**7. Handling and storage**

<b>Handling</b>	Avoid contact with skin and eyes, inhalation of vapors and mists. When using do not eat or drink. See, too, paragraph 8 for recommended protective equipment.
<b>Storage:</b>	Keep away from food, drink and feed. Incompatible materials: None in particular. See also paragraph 10. Recommendations for the areas: Areas adequately aired.
<b>Final Specific uses:</b>	None in particular.

**8. Exposure controls/personal protection**

<b>Control parameters</b>	Exposure Limit Values DNEL N.A. Exposure Limit Values PNEC N.A.
<b>Exposure controls</b>	Eye protection: Not required for normal use. Anyway, operate according good working practices. Skin protection: not required to adopt any special precautions for normal use. Hand protection: Not required for normal use. Respiratory protection: Not needed for normal use. Thermal Hazards: None Environmental exposure controls: None Engineering controls: None

**Material Safety Data Sheet**  
**In according to the Regulation (CE) n. 1907/2006 REACH**  
Issue date: 18/12/15  
Data sheet B3253 in Rev. n. 0

**9. Physical and chemical properties**

Color :	Black
I wait:	Cylindrical thread
Smell:	Light, Characteristic
Odor threshold:	N.A.
pH:	N.A.
Melting point / freezing point:	160÷240°C
Initial boiling point and boiling range:	N.A.
Solid / gas flammability:	N.A.
Upper / lower flammability or explosive limits:	N.A.
Vapour Density	N.A.
Evaporation rate:	N.A.
Vapor pressure:	N.A.
Relative density:	1.10 ÷1.35 g/cm <sup>3</sup>
Water solubility:	Insoluble
Solubility in oil:	N.A.
Partition coefficient (n-octanol / water):	N.A.
Viscosity:	N.A.
Explosive properties:	N.A.
Oxidizing properties:	N.A.
Miscibility:	N.A.
Lipid:	N.A.
conductivity:	N.A.
Groups relevant properties of substances:	N.A.

**10. Stability and reactivity**

<b>Reactivity</b>	Stable under normal conditions
<b>Chemical stability</b>	Stable under normal conditions
<b>Possibility of hazardous reactions</b>	Nobody
<b>Conditions to avoid</b>	Stable under normal conditions
<b>incompatible materials</b>	None in particular.
<b>Hazardous decomposition products</b>	Tetrahydrofuran.

**Material Safety Data Sheet**  
**In according to the Regulation (CE) n. 1907/2006 REACH**  
Issue date: 18/12/15  
Data sheet B3253 in Rev. n. 0

### **11. Toxicological information**

<b>General information</b>	In the polymer blend the hazardous ingredients are completely incorporated and surrounded by the polymer matrix, exposure and risk associated with them are eliminated. Therefore, the mixture is not dangerous for health and for the environment in the form in which it is marketed.
<b>Toxicological information of the mixture:</b>	N.A.
<b>Toxicological information of the main substances in the mixture</b>	N.A.

Unless otherwise specified, the data required by Regulation 453/2010 / EC listed below must be considered as NA:

- a) Acute toxicity;
- b) Skin corrosion / irritation;
- c) Serious eye damage / irritation;
- d) Respiratory or skin sensitization;
- e) Germ cell mutagenicity;
- f) Carcinogenicity; g) reproductive toxicity;
- g) Specific target organ toxicity (STOT) - single exposure;
- h) Specific target organ toxicity (STOT) - repeated exposure;
- i) Danger in case of suction.

### **12. Ecological information**

<b>General information</b>	In the polymer blend the hazardous ingredients are completely incorporated and surrounded by the polymer matrix, exposure and risk associated with them are eliminated. Therefore, the mixture is not dangerous for health and for the environment in the form in which it is placed on the market
<b>Toxicity</b>	Adopt good working practices, avoiding littering. N.A.
<b>Persistence and degradability</b>	N.A.
<b>Potential for bioaccumulation</b>	N.A.
<b>Mobility in soil</b>	N.A.
<b>Results of PBT and vPvB</b>	VPvBs: No
<b>Other adverse effects</b>	PBT: No

**Material Safety Data Sheet**  
**In according to the Regulation (CE) n. 1907/2006 REACH**  
Issue date: 18/12/15  
Data sheet B3253 in Rev. n. 0

**13. Disposal considerations**

**Methods of treatment of the waste**

Recover if possible. Operate according to local and national.

**14. Transport information**

UN number	No dangerous goods under the transport regulations.
Shipping name	N.A.
Classes Transport hazard	N.A.
Packing group	N.A.
Environmental hazards	N.A.
Special precautions for user	N.A.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	N.A.

**15. Regulatory information**

Standards and legislation, health legislation specific for the substance or mixture	Legislative Decree. 09/04/2008 n. 81 D.M. 26/02/2004 Work (Exposure Limits Professional) Regulation (EC) No. 1907/2006 (REACH) Regulation (EC) No. 1272/2008 (CLP) Regulation (EC) No. 790/2009 (ATP 1 CLP) and (EU) No. 758/2013 Regulation (EU) No. 453/2010 (Annex II) Regulation (EU) No. 286/2011 (ATP 2 CLP) Regulation (EU) No. 618/2012 (ATP 3 CLP) Restrictions relating to the product or contained substances pursuant to Annex XVII of Regulation (EC) No. 1907/2006 (REACH) and subsequent amendments
Restrictions relating to the product:	No restrictions.
Restrictions on the substances:	No restrictions.
Where applicable, refer to the following standards:	Ministerial circulars 46 and 61 (Aromatic amines) Legislative Decree no. 21 September 2005 n. 238 (Seveso Ter). Regulation 648/2004 / EC (detergents) D. L. 04/03/2006 n. 152 Environmental Regulations Reg. (EU) 528/2012 (Biocides) Regulation (EU) No. 487/2013 (ATP 4 CLP) Regulation (EU) No. 944/2013 (ATP 5 CLP) Regulation (EU) No. 605/2014 (ATP 6 CLP)
Provisions relating to Directives 82/501 / EC (Seveso), 96/82 / EC (Seveso II):	N.A.
Chemical Safety Assessment	No



**Material Safety Data Sheet**  
**In according to the Regulation (CE) n. 1907/2006 REACH**  
Issue date: 18/12/15  
Data sheet B3253 in Rev. n. 0

## 16. Other information

This document was prepared by a competent person to person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities.

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold.

CCNL - Appendix 1.

National Institute of Health - National Chemicals Inventory.

The information contained herein is based on our knowledge as of the date indicated. They refer solely to the product indicated and constitutes no guarantee of particular quality.

The user must verify the suitability and completeness of such information in relation to the specific use intended.

This sheet supersedes all previous editions.

All the mineral base oils contained in this product have a value <3% w DMSO extract according to IP 346/92 (Note L - Dir.94 / 69 / EC - European Regulation 1272/2008).

The table below the text of the Notes The European Regulation 1272/2008:

The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3% DMSO extract as measured by IP 346 "Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions - Dimethyl extraction sulfosside ", Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3.

ADR: European Agreement concerning the international carriage of dangerous goods by road.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CLP: Classification, Labeling, Packaging.

DNEL: Derived no effect.

EINECS: European Inventory of chemicals existing European market.

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

KST: Coefficient of explosion.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

LTE: Long-term exposure.

PNEC: Predicted No Effect Concentration.

RID: Regulation Concerning the International Carriage of Dangerous Goods by Rail.

STE: Short-term exposure.

STEL: Short Term Exposure.

STOT: Specific Target Organ Toxicity.

TLV: Threshold Limit Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hours. (ACGIH Standard).

WGK: Water hazard class (Germany).