

Version 1 Revision d

Revision date: 01.10.2020

3DGence PLA

1.IDENTIFICATION OF THE SUBSTANCE

1.1. Product identifier

Tradename	3DGence PLA
Product type	-
1.2. Recommended use	Filament used in 3D printers
1.3. Company	3DGence sp. z o.o. Mickiewicza 29 40-085 Katowice
Telephone	+48 32 438 98 65
E-Mail	sales@3dgence.com
1.4. Emergency telephonenumber	+48 32 438 98 65



Revision date: 01.10.2020

2. IDENTIFICATION OF HAZARDS

2.1. Classification

3DGence PLA

Product is not classified as hazardous for human life and health and for the environment.

2.2. Labeling (CLP)

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

2.3. Other hazards

Product does not meet criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.

3. COMPOSITION/INFORMATION OF INGREDIENTS

3.1. Substances

Not applicable.

3.2. Mixtures

Product based on resin polylactide [CAS 9051-89-2]. Product does not contain components which are classified as hazardous. Product does not contain components with European Union level exposure limit in the workplace.



Revision date: 01.10.2020

4. FIRST AID MEASURES

3DGence PLA

4.1. Description of first aid measures

General information:	Contaminated clothing must be taken off immediately.
After inhalation:	Filament: exposure by this route does not occur.
	During printing process: remove the victim to fresh air. Keep warm and calm. Consult a doctor, if disturbing symptoms occur.
After eye contact:	Filament: protect non-irritated eye, remove contact lenses. Rinse contaminated eyes with water for 10-15 minutes. Avoid strong stream of water – risk of damage of the cornea. Contact an ophthalmologist.
	During printing process: splashes of liquid filament may cause burns. Put on sterile dressing. Contact an ophthalmologist immediately
After skin contact:	Filament: in case of exposure rinse contaminated skin using water with soap.
	During printing process: possible thermal burns. Rinse dama- ged skin with water. Put on sterile dressing. Contact doctor.
After 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.



Version 1 Revi

Revision date: 01.10.2020

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

There are no significant effects or critical hazards reported under normal conditions of use. 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.

5. FREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: carbon dioxide, extinguishing powder, extinguishing foam, water spray. Unsuitable extinguishing media: water jet – risk of fire propagation.

5.2. Unsuitable media

Unsuitable extinguishing media: water jet – risk of fire propagation.

5.3. Special hazards arising from the substance or mixture

During combustion harmful fumes consisting of carbon oxides and other harmful products of thermal decomposition may be produced. Do not inhale combustion products, it may cause health risk.

5.4. Advice to 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.



3DGence PLA

Version 1

Revision date: 01.10.2020

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Do not inhale aerosol. Ensure that effects of the breakdown are removed only by qualified personnel. Avoid inhalation of fumes evolved during the printing process.

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 material for containment and 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

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Handle in accordance with good occupational hygiene and safety practices. Use only as intended. In case of rubbing or friction, accumulation of electrostatic charges on the filament surface may occur. Accumulated electric charge can be transferred to the user and may be a source of ignition - use extreme caution when working with flammable materials.

7.2. Conditions for safe storage, including any incompatibilities

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

7.3. Specific use(s)

No information about uses other than mentioned in subsection 1.2.

3DGence PLA



Version 1

Revision date: 01.10.2020

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Product does not contain any components with occupational exposure limit values at working place.

Please check any national occupational exposure limit values in your country. Legal Basis: Commission Directive 2006/15/EC, 2000/39/EC, 2009/161/EU, 2017/164/EU.

8.3. Exposure controls

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.

Hand and body protection:	Not required.
Eye protection:	Use tightly fitting protective glasses or face protection if risk assessment indicates that it is necessary.
Respiratory protection:	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.

Applied personal protective equipment must comply with the requirements of the Regulation 2016/425/EU. The employer is obliged to provide protective equipment relevant to performed activities and in accordance with all quality requirements,

8.4. Environmental exposure controls

Avoid release of large amounts of the product to groundwater, drainage system or soil.



Revision date: 01.10.2020

3DGence PLA

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Fundamental physical and chemical properties

Physical state/appearance:	Solid/filament
Color:	According to assortment
Odor:	Odourless
Odour threshold:	not applicable
pH:	not applicable
Melting point/freezing point:	210 °C
Initial boiling point and boiling range:	Not determined
Flash point:	Not determined, product is not flammable
Evaporation rate:	Not applicable
Flammability (solid, gas):	Not flammable
Upper/lower flammability or explosive limits:	Not applicable
Vapour pressure:	Not applicable
Vapour density:	Not applicable
Density:	Not applicable
Solubility(ies):	Not determined
Partition coefficient: n-octanol/water:	Not determined
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
Explosive properties:	Not determined
Oxidising properties:	Not determined
Viscosity:	Not applicable

9.2. Other information

Specific gravity:



Version 1

Revision date: 01.10.2020

10. ACCIDENTAL RELEASE MEASURES

10.1. Reactivity

Product is resistant to chemicals. See also subsections 10.3-10.5.

10.2. Chemical stability

The product is stable under normal conditions of handling and storage

10.3. Possibility of hazardous reactions

Hazardous reactions are not known.

10.4. Conditions to avoid

Protect from direct sunlight, sources of fire and heat, excpet from processes connected directly with using of the product.

10.5. Incompatible materials

Strong oxidizers, strong basics.

10.6. Hazardous decomposition products

Not known.



Revision date: 01.10.2020

3DGence PLA

11. PHYSICAL AND CHEMICAL PROPERTIES

11.1. Toxicological effects

Acute toxicity (oral):	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.



Version 1

Revision date: 01.10.2020

12. ACCIDENTAL RELEASE MEASURES

12.1. Toxicity

Product is not classified as hazardous for the environment.

12.2. Persistence and degradability

No data for the mixture.

12.3. Bioaccumulative potential

No bioaccumulative potential.

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. Other adverse effects

Product is not classified as hazardous to the ozone layer.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste material should be stored in designated place for recycling or utilization. Waste product should be recovered or disposed of in authorized incineration plants or waste facility in accordance with local regulations.

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



3DGence PLA

Version 1

Revision date: 01.10.2020

14. TRANSPORT INFORMATION

UN Number:	Not applicable. Product is not classified as dangerous during transportation.
UN proper shipping name:	Not applicable.
Transport hazard class(es):	Not applicable.
Packing group:	Not applicable.
Environmental hazards:	Not applicable.
Special precautions for user:	Not applicable.
Transport in bulk according to Annex II of MARPOL and the IBC Code:	Not applicable.

according to EU Regulation No. 1907/2006



Version 1

Revision date: 01.10.2020

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 (EC) 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.

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.

Commission Regulation (EU) No 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives as amended.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste as amended.

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.

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.

15.2. Chemical safety assessment

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



Version 1

Revision date: 01.10.2020

16. OTHER INFORMATION

Abbreviations and acronyms

PBT	Persistent, Bioaccumulative and Toxic substance
vPvB	very Persistent, very Bioaccumulative substance

Trainings

Before commencing working with the product, the user should learn the Health & Safety regulations, regarding handling chemicals, and in particular, undergo a proper workplace training.

Key literature references and data sources

This sheet was prepared on the basis of on manufacturer's data, literature data, online databases, our knowledge and experience, taking into account the current legislation.