1 Identification of the substance / preparation and company / undertaking

1.1 Identification of the substance / preparation
Product name: PLA EXTRAFLIGHT
Other Name: Not listed
Registration number: Not applicable for objects

1.2 Application
Filaments for 3D printing
Intended Use: Designed for professional / industrial use.

1.3 Manufacturer / Supplier:
PARZLICH s.r.o
Nám. Míru 1217
768 24 Hulín
IČ: 29233275
Tel.: +420 570 570 515
Fax.: +420 573 505 011
info@parzlich.cz

2 Hazards Identification

2.1 Classification of the substance or mixture
Subject is not classified as hazardous pursuant to Act No. 356/2003 Coll., As amended

The most important adverse physicochemical properties and effects on human health and the environment
He does not have hazardous effects on human health and the environment.

2.2 Label elements
The course does not require labeling in accordance with Act No. 356/2003 Coll., As amended.

2.3 Other hazards
Not specified.

3 Composition / information on ingredients

3.1 Substances
The product is a mixture of several polymers.
Subject does not contain any hazardous ingredients at concentrations higher than the limit for which it is necessary to classify.
SAFETY DATA SHEET

PRODUCT NAME: PLA EXTRAFAILL
Revision date: 1.9.2014/1

4 First aid

4.1 Description of first aid
In case of accident or unconscious, consult a doctor.

Inhalation: Take the victim to fresh air, rest.
Skin Contact: Wash skin with water. In case of contact with molten product, cool the skin rapidly with water and seek medical advice.

Eye Contact: Not applicable.
Ingestion: Induce vomiting. Rinse mouth with water. Seek medical advice if necessary.

4.2 Most important acute and delayed symptoms and effects
Symptoms of exposure: respiratory tract irritation, cough.

4.3 Indication of any immediate medical attention and special treatment needed
Treatment: First aid, decontamination, treatment of symptoms.

5 Fire fighting measures

5.1 Extinguishing media
Suitable extinguishing agents used by the surrounding fire - water, foam, carbon dioxide. Unsuitable extinguishing agents: Water with full jet.

5.2 Special hazards arising from the substance or mixture
Combustion products: carbon monoxide (CO), carbon dioxide (CO2), nitrogen oxides (NOx), hydrogen cyanide and water. Escaping vapors condense water. Skin burns caused by molten material must be treated. The course is flammable.

5.3 Advice for fire fighters
Insulated breathing apparatus (EN 137). Contaminated extinguishing water must not be discharged into drains.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Remove sources of ignition and open flame. Follow the usual measures to prevent forest fires.

6.2 Measures for environmental protection
No special measures are required.

6.3 Methods and materials for containment and cleaning up
Mechanically pouch.

6.4 Reference to other sections
Refer also to the provisions of sections 8 and 13 of this sheet.

The document can be extended only with the consent of the publisher and only in complete form.
7 Handling and storage

7.1 Precautions for safe handling
Avoid prolonged or repeated contact with skin. Recommended for sufficient ventilation / suction at the workplace. Flammable product. Follow the usual measures to prevent forest fires. Store in dry conditions. After completion of work, wash hands and face with soap and water. When using do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities and mixtures
Store in original container protected from excessive heat, direct sunlight, dust and condensed water.
1) Do not unpack the string if you do not immediately need
2) Store in a cool dry place 2-30 ° C
3) Do not expose to direct sunlight and UV radiation
4) If you string a longer period of time, insert the cord back into the container with silica gel moisture-
5) Use within 12 months from delivery
Avoid direct contact with food.

7.3 Specific end / specific end uses
Specific application is listed in the instructions for use on the label of the product packaging or in the product documentation.

8 Exposure controls / personal protection
8.1 Exposure limits:
8.2 Exposure:
8.2.1 Occupational exposure: 
8.2.1.1 Protection Respiratory
During inhalation of dust anti-air respirator, Fire breathing apparatus.
8.2.1.2 Protection of hands:
protective gloves
8.2.1.3 Eye protection:
protective goggles
8.2.1.4 Skin protection:
Work clothing, closed shoes
8.2.2 Environmental exposure controls:
See Act No. 201/2012 Coll. of the Clean Air Act No 254/2001 Sb. the waters, as amended

9 Physical and chemici properties

9.1 Information on basic physical and chemical properties
Physical State / Appearance: Solid, natural or colored string
Odor: Specific
Odour threshold: Data not available
pH: Data not available
Flash point: Data not available
Evaporation rate: Data not available
Flammability (solid, gas): Data not available
SAFETY DATA SHEET

PRODUCT NAME: PLA EXTRAFFILL

Revision date: 1.9.2014/1

Density: 1.24 g/cm³
Vapor density: Data not available
Relative density: 45 g/cm³ (DIN 51757)
Solubility: The water-insoluble

Decomposition Temperature: 250°C
Viscosity: Data not available
Explosive properties: Data not available
Oxidation properties: Data not available

10 Stability and reactivity

10.1 Reactivity
No known reactive substances with which a product could be exposed to during transportation, storage and use.

10.2 Chemical stability
Under normal environmental conditions during storage and handling.

10.3 Possibility of hazardous reactions
Hazardous polymerization does not arise.

10.4 Conditions to avoid
Heating above the decomposition temperature.

10.5 Incompatible materials
None known.

10.6 Hazardous decomposition products
Thermal decomposition can lead to the escape of irritating gases CO, CO₂ and nitrogen oxides.

11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity
- LD50, oral, rat (mg.kg⁻¹): Data not available
- LD50, dermal, rat or rabbit (mg.kg⁻¹): Data not available
- LC50, inhalation, rat (mg.l⁻¹): Data not available

Irritation
Based on available data, the classification criteria are not met.

Corrosion
Based on available data, the classification criteria are not met.

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SAFETY DATA SHEET  

PRODUCT NAME: PLA EXTRAFLIL  
Revision date: 1.9.2014/1

Sensitization  
Based on available data, the classification criteria are not met.

Repeated dose toxicity  
Based on available data, the classification criteria are not met.

Carcinogenic  
Based on available data, the classification criteria are not met.

Mutagenicity  
Based on available data, the classification criteria are not met.

Toxicity for reproduction  
Based on available data, the classification criteria are not met.

More information  
Based on our experience and information in the event handling needs and intended use does not have harmful effects on human health.

12 Ecological information  

12.1 Toxicity  
- LC50, 96 hod., fish(mg.l-1): Data not available  
- EC50, 48 hod., crustaceans (mg.l-1): Data not available  
- IC50, 72 hod., algae (mg.l-1): Data not available

12.2 Persistence and degradability  
It can be assumed that the polymer is inert. Photochemical degradation occurs on the surface under sunlight.

12.3 Bioaccumulative potential  
Data are not available.

12.4 Mobility in soil  
Data are not available.

12.5 Results of PBT and vPvB  
Data are not available.

12.6 Other adverse effects  
Data are not available.

13 Disposal considerations  

13.1 Waste treatment methods  
Part numbers of the types of waste classifies the user based on the application of the product and other matters in the catalog of waste.
Recommended method of disposal for legal entities and natural persons authorized to do business:

Any unused product and contaminated packaging store in labeled containers for waste collection and labeled waste hand over to the person entitled to dispose of the waste (a specialized company), which is authorized for this activity.

Legislation on waste
Act No. 185/2001 Coll. on waste, as amended. If this product and its packaging waste, the final user to assign appropriate waste code according to Decree No. 381/2001 Coll. as amended. Act No. 477/2001 Coll. on packaging, as amended.

14 Transport information

Not regulated for transport of dangerous goods (ADR).

<table>
<thead>
<tr>
<th>14.1 OSN number</th>
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</tr>
</thead>
<tbody>
<tr>
<td>14.2 Name for shipment OSN</td>
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<tr>
<td>14.3 Class / Transport hazard class</td>
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<tr>
<td>14.4 Packing group</td>
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<tr>
<td>14.5 Environmental hazards</td>
<td>No</td>
</tr>
<tr>
<td>14.6 Special precautions for user</td>
<td>Unknown</td>
</tr>
</tbody>
</table>

15 Regulatory information

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

Act No. 258/2000 Coll. the protection of public health, as amended
Act No. 201/2012 Coll. Air Protection, as amended
Act No. 254/2001 Coll. the waters, as amended

15.2 Chemical Safety Assessment
It was a chemical safety assessment.
16 Other information

Key literature references and sources for data
Information contained herein is based on our best knowledge and current legislation. MSDS has been further elaborated on the basis of the original safety data sheet provided by the manufacturer.

List of R-phrases, hazard statements, safety phrases and / or precautionary statements used in the safety data sheet
No.

Guidelines for training
Labour Code, the current wording

More information
The product should not be used for any purpose other than that for which it is intended. As the specific conditions of use are beyond control of the supplier, it is the responsibility of the user to adapt the warnings to local laws and regulations. Safety information describes the product in terms of safety and can not be considered as technical information about the product.