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MATERIAL SAFETY DATA SHEET

(DIRECTIVE 1907/2006/CE)

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

1.1. Identification of the substance/preparation

Chemical denomination: TPU
Commercial name: FlexMark 7, FlexMark 8, FlexMark 9

1.2. Use of substance/preparation

Additive printing filaments production

1.3. Identification of the company/undertaking

Sa2p sas/Treed Filaments
Via Messina 101, 20831 Seregno (MB) Italy
Ph. +39 0362 320500
Email: info@treedfilaments.com

1.4. Emergency telephone number

Ph: +39 0362 320500

2. COMPOSITION/INFORMATION ON INGREDIENTS

2.1 The preparation is composed by:

Polymer, additives (<2%), stabilizing agents, colorants and/or pigments if necessary.
CAS N° N/A CAS N° N/A

3. HAZARDS IDENTIFICATION

3.1. Classification:

The preparation is not classified as dangerous according to CEE 1999/45 and 67/548/EWG directives and updates.

3.2. Potential Health Effects:

The preparation is considered harmless for human health as it is and when exposed to normal and predictable production process and storage.

According with EU directives it is not dangerous. See section 4 and 11 for further information.

3.3. Potential Environmental Effects

The preparation in normal storage and processing conditions is inert and does not show environmental hazards.

4. FIRST AID MEASURES

4.1. General information:

The measures indicated are referred to critical situations (fire, wrong process conditions). At ambient temperature the product is not irritating and does not release harmful smokes.

4.2. Eye Contact:

Immediately flush eyes with water for at least 15 minutes. Get medical attention.

4.3. Skin Contact:

In case of melted product contact, flush area with large amounts of cold water. Do not remove consolidated product. Seek medical attention.

4.4. Inhalation:

In case of excessive smoke inhalation remove to fresh air. Seek medical attention. Keep the subject warm, and if necessary give artificial respiration.

4.5. Ingestion:

If necessary, get medical attention. No specific measures are required for product's ingestion.

4.6. Specific instruments needed on workplace:

Eyewashes.

5. FIRE FIGHTING MEASURES

5.1. Extinguishing media:

Water spray, foam, chemical powder and carbon dioxide.

5.2. Hazardous Combustion Products:

May emit carbon dioxide, carbon monoxide, hydrogen cyanide, nitrogen oxides, isocyanate under fire and overheat conditions.

5.3. Fire fighting procedures:

Wear approved positive pressure, self-contained breathing apparatus and full protection turn out gear. Use caution in approaching fire.

6. ACCIDENTAL RELEASE MEASURES**6.1. Health and Safety Precautions:**

Avoid walking on filaments to minimize slipping risk.

6.2. Measures for Environmental Protection:

Place waste in an appropriate labeled container for disposal. Do not discharge in sewerage.

6.3. Measures for Cleaning / Collecting:

Collect with available mechanical media. Reuse if possible or dispose properly.

7. HANDLING AND STORAGE**7.1. General Handling:**

No specific risks for manipulation of the material at ambient temperature. Avoid inhalation of smokes during the production process. Provide suitable exhaust ventilation at the drying process and in the area surrounding the melt outlet of processing machines.

7.2. Storage Conditions:

Keep product away from heat sources and direct sunlight. Store in fresh and well ventilated areas. Keep away from flames and static electricity. Suitable materials for containers: board, paper, High density polyethylene (HDPE), Low density polyethylene (LDPE).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Components with workplace control parameters:**

The substances mentioned are contained only in traces in the product.

101-68-8: Diphenylmethane-4,4'-diisocyanate (MDI)

TWA value 0.02 mg/m³ (EH40 (UK) Measured as: NCO

STEL value 0.07 mg/m³ (EH40 (UK) Measured as: NCO

Refer to the current edition of HSE Guidance Note EH40 Occupational Exposure Limits (United Kingdom).

8.2. Personal Protective Equipment:

Hands: Hand protection not required.

Eye: Wear safety glasses if eye contact is possible.

Skin: Wearing of closed work clothing is recommended.

Respiratory protection: Breathing protection if breathable aerosols/dust are formed.

When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Aspect:	Filament
Physical State:	Solid
Color:	White, black.
Smell:	Odourless
Molecular Formula:	N/A
Molecular Weight:	N/A

10. STABILITY AND REACTIVITY

10.1. Stability:	Stable
10.2. Conditions to Avoid:	Direct sunlight and heat. Electrostatic charges. Avoid inhalation of smokes during the production process.
10.3. Incompatible Materials:	No hazardous reactions when stored and handled normally.
10.4. Hazardous Decomposition Products:	Carbon monoxide, carbon dioxide, hydrogen cyanide isocyanates, nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

11.1. Assessment of acute toxicity:	Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation. Virtually nontoxic after a single ingestion. Experimental/calculated data: LD50 rat (oral): > 5,000 mg/kg
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12. ECOLOGICAL INFORMATION

12.1. Environmental Overview:	There is a high probability that the product is not acutely harmful to aquatic organisms.
12.2. Bioaccumulation and Toxicity:	

Avoid product dispersion, the preparation is poorly biodegradable.

13. DISPOSAL CONSIDERATIONS

13.1. Disposal procedures:

Observe all local and national regulations when disposing of this material.

13.2. Recycle:

The material can be reused after appropriate treatments and according to application.

13.3. National and European regulations:

Directive 1907/2006.

14. TRANSPORT INFORMATION

No limitations existing.

15. REGULATION INFORMATION

15.1. Labeling:

The preparation is not classified as dangerous with actual regulation (1999/45/CE), (67/548/CEE) and updates. Labeling not required.

16. OTHER INFORMATION

This safety data sheet is provided according to directive 1907/2006/CE.

DISCLAIMER

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