



Revision Date: November 2011

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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: Thermoplastic elastomer  
Commercial name: Ultraflexx, Ultraflexx+

### 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](mailto:info@treedfilaments.com)

### 1.4. Emergency telephone number

Ph: +39 0362 320500

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## 2. COMPOSITION/INFORMATION ON INGREDIENTS

### 2.1 The preparation is composed by:

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

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## 3. HAZARDS IDENTIFICATION

### 3.1. Classification:

The preparation is not classified as dangerous according to CEE 1999/45 directive 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. Dust may cause mechanical irritation. Heated material may cause thermal burns.

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.

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## **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 if symptoms occur.

### **4.3. Skin Contact:**

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

### **4.4. Inhalation:**

In case of excessive smoke inhalation remove to fresh air. Get medical attention if necessary.

### **4.5. Ingestion:**

If swallowed, rinse mouth with water (only if the person is conscious). If necessary, get medical attention.

### **4.6. Specific instruments needed on workplace:**

Eyewashes.

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## **5. FIRE FIGHTING MEASURES**

### **5.1. Extinguishing media:**

Alcohol-resistant foam, dry chemical powder and carbon dioxide.

### **5.2. Hazardous Combustion Products:**

May emit toxic fumes under fire and overheat conditions such as carbon monoxide, carbon dioxide, (dense) black smoke, aldehydes, organic acids.

### **5.3. Fire fighting procedures:**

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

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## **6. ACCIDENTAL RELEASE MEASURES**

### **6.1. Health and Safety Precautions:**

Avoid walking on filaments to minimize slipping risk. In case of spillage, no action shall be taken without suitable training. Do not touch or walk through spilt material. See section 8 for suitable clothing and materials.

### **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. Clean up the area with water. Dispose properly.

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## **7. HANDLING AND STORAGE**

### **7.1. General Handling:**

No specific risks for manipulation of the material at ambient temperature. Use adequate ventilation. Avoid creation of dust and inhalation of smokes during the production process. Wash hands and face before eating, drinking and smoking.

### **7.2. Storage Conditions:**

Store in fresh and well ventilated areas. Keep away from fire and static electricity.

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## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **8.1. OEL/PEL:**

Breathable powders: No exposure limit value known.

Total powders: No exposure limit value known.

### **8.2. Personal Protective Equipment:**

Hands: Wear impervious gloves if skin contact is possible.

Eye: Wear safety glasses if eye contact is possible.

Skin: Not required for normal use of this product.

Respiratory protection: Wear dust protection mask P2 if dust production occurs.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>9.1. Aspect:</b>	Plastic elastomer filament
<b>Physical State:</b>	Solid
<b>Color:</b>	Naturally opaque, dependent on the added pigment
<b>Smell:</b>	Not available
<b>Molecular Formula:</b>	N/A
<b>Molecular Weight:</b>	N/A
<b>Melting point:</b>	150 to 220° C
<b>Flash point:</b>	>350°C
<b>Decomposition Temp:</b>	300°C
<b>Solubility:</b>	Insoluble in cold water.

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## 10. STABILITY AND REACTIVITY

- 10.1. Stability:** Stable under recommended storage and handling conditions.
- 10.2. Conditions to Avoid:**  
Direct sunlight and heat. Electrostatic charges. Avoid inhalation of smokes during the production process.
- 10.3. Incompatible Materials:**  
No special recommendations.
- 10.4. Hazardous Decomposition Products:**  
No specific data.
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## 11. TOXICOLOGICAL INFORMATION

No data available

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## 12. ECOLOGICAL INFORMATION

- 12.1. Environmental Overview:**  
The preparation is a polymer considered non-toxic to aquatic organisms.
- 12.2. Bioaccumulation and Toxicity:**  
Avoid product dispersion, the preparation is not 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 91/156/CEE, Directive 91/689/CEE.

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### **14. TRANSPORT INFORMATION**

No limitations existing.

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### **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.

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### **16. OTHER INFORMATION**

This safety data sheet is provided according to directive 1907/2006/CE and 91/155/CE.

### **DISCLAIMER**

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