



Revision date : 12/06/2015

# Material Safety Data Sheet

Directive 1907/2006 CE

## 1. Identification of the substance- preparation and company

### 1.1 identification of the substance /preparation

Chemical denomination : Polystirene

Commercial name : HIPS Stiron

## 2. Use of substance / preparation

Additive printing filaments

## 3. Identification of the company

SA2P sas / Treedfilaments

Via Messina 101

20831 Seregno ( MB ) Italy

Ph. +39 0362320500

e-mail : [info@treedfilaments.com](mailto:info@treedfilaments.com)

## 4. Emergency phone number

+39 0362320500

## 2. Composition / information on ingredients

1. The preparation is composed by : Polystiren , colors max 3%

## 3. Hazards classification

## **1. Classification :**

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

## **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 1.1. for further information .

## **3. Potential environmental effects :**

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

## **4. First aid measures**

### **1. General information :**

At ambiente temperature the product is not irritating and does not release harmful smokes . The measures indicated are refereed to critical situation ( fire , wrong process , conditions ) . Immediately remove any contained clothing , shoe or stockings .

### **2. Eye contact :**

Rinse cautiously with water for several minutes . remove contact lenses , if present and easy to do . Continue rising . Consult an eye specialist in the event of irritation .

### **3. Skin contact :**

The melted product can use severe burns . do not attempt to remove molten product , or molten product that has cooled . from skin without medical assistance . After contact with molten product , cool skin area rapidly with cold water . Consult physician .

### **4. Inhalation :**

Provide fresh air . Put victim at rest and keep warm . Seek medical attention .

### **5. Ingestion :**

Rinse mouth with water . Drink one or two glasses of water . Never give an unconscious person anything trough the mouth . Seek medical attention .

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

Gloves , eye protection .

## **5. Fire fighting measures :**

### **1. Extinguishing media :**

water fog , foam , extinguishing powder , carbon dioxide .

#### **1.1 Extinguishing media with must NOT be used for safe reason :**

high power water jet .

### **2. Hazardous combustion products :**

in case of fire may be liberated : hydrogen cyanide , carbon monoxide , carbon dioxide ( CO<sub>2</sub> ) , In case of dust : danger of dust explosion .

### **3. Fire fighting procedure :**

Wear a self-contained breathing apparatus and chemical protective clothing .

Use caution in approaching fire . Do not allow fire water to penetrate into surface or ground water . Fire residuals and contained extinguishing water must be disposed of in accordance with the regulations of the local authorities .

## **6. Accidental release measures**

### **1. Health and safety precaution :**

Avoid walking on filaments to minimize slipping risk .Provide adequate ventilation . Wear personal protection equipment .

### **2. Measure for environmental protection :**

Place waste in an appropriate labeled container for disposal . Do not allow to penetrate into soil , waterbodies or drains .

### **3. Measures for cleaning / collecting :**

Avoid generation of dust , remove all sources of ignition .

Take up mechanically . Collect in closed containers for disposal .

## **7. Handling and storage**

## **1. General handling :**

Provide adequate ventilation , and local exhaust as needed . Do not breathe dust .  
In the case of the formation of dust : withdraw by suction . Molten material : avoid contact with the substance . Take precautionary measures against static discharge . Keep away from sources of ignition . Use grounding equipment .  
Use explosion proof equipment and non sparking tools . Avoid open flames .  
Dust may form explosive mixture with air .

## **2. Storage conditions :**

Store in a well ventilated place . Keep container tightly closed . Protect against heat - sun rays . Protect from moisture contamination . Storage class 11

## **8. Exposure controls - personal protection**

### **1. OEL/PEL**

Breathable powder : US TLV -8h TWA : 4 mg /m<sup>3</sup>  
total powders : US TLV-TWA : 10 mg/m<sup>3</sup>

### **2. Personal protective equipment :**

**Hands :** protective gloves according to EN 374 . Glove material  
nitrile rubber glove

Layer thickness : 0,11 mm , breakthrough time > 480 min .

Observe glove manufacture's instructions concerning penetrability and breakthrough time .

In case of melting protective gloves against heat according to EN 166

Observe glove manufacturer's instructions concerning penetrability and breakthrough time .

**Eye :** tightly sealed goggles according to EN 166

**Skin :** wear suitable protective clothing . Boots or wear protective shoes .

### **Respiratory protection :**

respiratory protection must be worn whenever the WEL levels have been exceeded . use filter type A-P2 according to EN 14387

## 9. Physical and chemical properties

- 1. Aspect : filament
- Color : natural and all the RAL colors
- Smell : weak , characteristic .
- Molecular formula : N/A
- Molecular weight : N/A

## 10. Stability and reactivity

- 1. Stability : stable under recommended storage conditions
- 2. Conditions to avoid : protect from excessive heat . Keep away from sources of ignition and heat . Avoid dust formation .
- 3. Incompatible materials : strong oxidizing agents .
- 4. Hazardous decomposition products : In case of fire may be liberated :  
hydrogen cyanide , carbon monoxide and carbon dioxide (CO<sub>2</sub>)  
Thermal decomposition approx. : 280°C .  
To avoid thermal decomposition , do not overheat .

## 11. Toxicological information

- ingestion : in this composition it can be harmful
- dermal : in this composition is little harmful
- inhalation : in this composition , if the product is burned , can cause irritation .

## 12. Ecological information

- 1. Environmental overview :  
no evidence of aquatic toxicity
- 2. Bioaccumulation and toxicity :  
Avoid product dispersion , the preparation is not biodegradable .  
In sewage treatment plants it may be separate mechanically .  
To avoid bioaccumulation plastics should not be disposed in the sea  
or in other water environments .

### 13. Disposal considerations

1. Disposal procedures :

observe all local and national regulations when disposing of this material

2. Recycle :

with due observance of the regulation laid by the local authorities ,  
this must be brought to a suitable incineration plant -waste disposal site .

3. National and European regulations :

directive 91/156/CEE , directive 91/689/CEE, Directive 94/62/CEE.

### 14. Transport information

No limit existing .

### 15. Regulatory information

1. labelling

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

#### National regulations - USA

Hazard rating systems:



NFPA Hazard Rating:

Health: 1 (Slight)

Fire: 1 (Slight)

Reactivity: 0 (Minimal)

HIVIS Version III Rating

Health: 1 (Slight)

Flammability: 1 (Slight)

Physical Hazard: 0 (Minimal)

Personal Protection: X = Consult your supervisor

HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0
	X

### 16. Every printed part , item or other component realized with this material under

physical status of filament, is under direct responsibility of the individual , factory or  
other entity that realizes it .

### 17. Other information

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



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