ABS CF15

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Material **S**afety **D**ata **S**heet

Directive 1907/2006 CE

1. **Identification of the substance- preparation and company**
   1.1 **identification of the substance /preparation**
   Chemical denomination : ABS Acrylonitrile Butadiene Styrene + cf
   Commercial name : ABS CF15

   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

   4. **Emergency phone number**

   +39 0362320500

2. **Composition / information on ingredients**

   1. The preparation is composed by : ABS added 15% carbon fibre and addictive

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 (CO2) , 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 .Provvide adeguate 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 sparkling 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 heath - 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 /m3
total powders : US TLV-TWA : 10 mg/m3

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 googles 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 : black
   Smell : weak , characteristic of ABS.
   Flash point : 320°C
   Auto ignition temp. : >320°C
   Decomposition temp. : >=380°C

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 (CO2)
   Thermal decomposition approx. : 320°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 .

16. OTHER INFORMATION

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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