

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 : Polyamide carbon fiber
Commercial name : Structura MA

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 : Polyamide , carbon fiber , additive max 2%

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 through 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 . 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 : 5 mg /m³

total powders : US TLV-TWA : 12 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 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 : black

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 (CO₂)
Thermal decomposition approx. : 350°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



NFPA Hazard Rating
 Health: 1 (slight)
 Fire: 1 (slight)
 Reactivity: 0 (minimal)

HMIS 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.

DISCLAIMER

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