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Rev. 1.0

Material Safety Data Sheet

According to directive 1907/2006 CE

1. Identification of the substance- preparation and company

1.1 identification of the substance /preparation

Chemical denomination : PET CF

Commercial name : CA PET

1.2 Use of substance / preparation

Additive printing filaments

1.3 Identification of the company

SA2P sas / Treedfilaments

Via Messina 101

20831 Seregno (MB) Italy

Ph. +39 0362320500

e-mail : info@treedfilaments.com

1.4 Emergency phone number

+39 0362320500

1.5 Composition / information on ingredients

The preparation is composed by : P.E.T. polyethylene terephthalate added with 15% carbon fibers

1.6 Physical and chemical properties

Aspect	:	filament
Color	:	black
Smell	:	weak , characteristic .
Molecular formula	:	N/A
Molecular weight	:	1,4 gr/cm3

2 - Hazard classification

2.1 Classification (REGULATION (EC) No 1272/2008)

Eye irritation, Category 2

Respiratory sensitization, Category 1

Skin sensitization, Category 1

H319: Causes serious eye irritation.

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317: May cause an allergic skin reaction.

2.2 Labels elements

Labelling (REGULATION (EC) No 1272/2008)

The dangerous properties of this product are distinctly reduced because the dangerous components are embedded into a polymeric matrix and cannot be released if used properly. Consequently labelling of this substance is not necessary (according to CLP regulation 1272/2008/EC, Annex I, part 1.3.4.).



Hazards pictograms

Signal word Hazard statements : Danger

Hazard statements :

H317

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statements :

Prevention:

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P280 Wear protective gloves/ eye protection/ face protection. P284 Wear respiratory protection.

R e s p o n s e :

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor. May cause an allergic skin reaction.

Hazardous components which must be listed on the label: benzene-1,2:4,5-tetra carboxylic dianhydride

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher.

The hazards of this product are significantly reduced since the hazardous material/s is/are enclosed in a polymer matrix and when used as directed will not be released.

3 : Composition information on ingredients

3.1 Mixtures

Hazardous components

Chemical name	CAS-No.	Classification	Concentration (% w/w)
	EC-No. Registration number		
benzene-1,2:4,5-tetracarboxylic dianhydride	89-32-7 201-898-9	Eye Dam. 1; H318 Resp. Sens. 1; H334 Skin Sens. 1; H317	>= 1 - < 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 .

3. Potential environmental effects :

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

4. First aid measures

4.1 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 .

4.2 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 .

4.3 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 .

4.4 Inhalation :

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

4.5 Ingestion :

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

5 Specific instruments needed on workplace :

Gloves , eye protection .

6 Fire fighting measures :

6.1 Extinguishing media :

water fog , foam , extinguishing powder , carbon dioxide .

6.2 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 .

7 Accidental release measures

7.1 Health and safety precaution :

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

7.2 Measure for environmental protection :

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

7.3 Measures for cleaning / collecting :

Avoid generation of dust , remove all sources of ignition .
Take up mechanically . Collect in closed containers for disposal .

8 Handling and storage

8.1 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 .

8.2 Storage conditions :

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

9 Exposure controls - personal protection

9.1 Control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Carbon black	1333-86-4	TWA	3 mg/m ³	ACGIH

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

9.2 Exposure controls Engineering measures

Substance name	End Use	Exposure routes	Potential health effects	Value
Carbon black	Workers	Inhalation		2 mg/m ³
Remarks:	DNEL (long-term rep.)			

10 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

11 Stability and reactivity

11.1 Stability : stable under recommended storage conditions

11.2 Conditions to avoid : protect from excessive heat . Keep away from sources of ignition and heat . Avoid dust formation .

11.3 Incompatible materials : strong oxidizing agents .

11.4 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 .

12 Toxicological information

ingestion : in this composition is harmful

dermal : in this composition is little harmful

inhalation : in this composition , if the product is burned , can cause irritation .

13 Ecological information

13.1 Environmental overview :

no evidence of aquatic toxicity

13.2 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 .

14 Disposal considerations

14.1 Disposal procedures :

observe all local and national regulations when disposing of this material



14.2 Recycle :

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

14.3 National and European regulations :

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

15 Transport information

No limit existing .

16 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)

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

17 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 .

18 Other information

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

DISCLAIMER

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