

Product Handling Information Sheet (PHIS)

Information on the safe handling of products



TECATEC SAN Carbon Semipreg

1. Identification of the article and of the company

Trade name:

TECATEC SAN CFX XYYY CP VXX natural, TECATEC SAN CFX XYYY CP VXX black

Application:

Semi-finished engineering plastics

Note:

The present product is an article in the sense of regulation (EC) No 1907/2006 (REACH).

Supplier:

Ensinger GmbH
Wilfried-Ensinger-Straße 1
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Tel. +49 9971 396 0
www.ensingerplastics.com

Competent person:

phib@ensingerplastics.com

2. Hazards identification

Classification and labelling:

The product is not classified and doesn't need any labelling.

Other hazards:

Carbon fiber is an electricity conducting material. Carbon fiber dust may cause electrical short-circuits when contacted to electrical devices.

3. Composition/information on ingredients

Description:

Article based on styrene-acrylonitrile copolymer, CAS No 9003-54-7, and styrene-acrylonitrile-maleic anhydride copolymer, CAS No 27812-34-6.

Containing carbon woven.

Possibly containing additives and processing aids.

Information on ingredients:

The product doesn't contain any substance, which is supposed to be released under normal or reasonably foreseeable conditions of use.

TECATEC SAN Carbon Semipreg

4. First aid measures

After inhalation:

After inhalation of product dust or thermal decomposition products, remove person from the danger zone. Fresh air, oxygen supply, apply artificial respiration if necessary. Keep quiet and warm and seek medical help.

After skin contact:

In case of skin irritation caused by carbon fibres, wash skin thoroughly with cold water. Do not use warm water, as this will open the pores of the skin, thus enabling the fibres to enter more deeply. Do not rub or scratch. Remove contaminated clothing. In the event of persisting skin irritation seek medical help.

After eye contact:

If a foreign body (splinter, chip) enters the eye do not rub. Immobilize the eye, cover both eyes with bandages, consult an eye specialist.

Indication of any immediate medical attention and special treatment needed:

Treat symptomatically.

5. Firefighting measures

Suitable extinguishing media:

Water spray, alcohol-resistant foam, carbon dioxide, dry chemical foam.

Unsuitable extinguishing media:

Water jet.

Special hazards arising from the article:

With carbonization and incomplete combustion toxic gases develop, predominantly carbon dioxide and carbon monoxide. The development of further fission and oxidation products is dependent on the conditions of burning. Traces of other toxic substances may develop under certain conditions of burning.

The formation of thick smoke and the release of hydrogen cyanide and nitrogen oxides are possible.

When the product is burnt, fine carbon fibre particles may be produced. They may cause electrical short-circuits when contacted to electrical devices.

Advice for firefighters:

If exposed to fumes and carbonization gases during fire-fighting measures, rescue operations and cleanup wear a self-contained breathing apparatus.

The product ignites in a flame and continues to burn on removal of the source.

In an advanced state of fire, the molten polymer must be cooled with water. Water used to extinguish the fire and fire remainders must be collected and water disposed of, in accordance with local regulations.

TECATEC SAN Carbon Semipreg

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Avoid dust formation. Take precautionary measures against static discharges. Keep away from sources of ignition.

No smoking.

Avoid contact with skin and eyes. Use personal protective clothing.

Environmental precautions:

Let not enter surface water and sewage water system.

Methods and material for containment and cleaning up:

Mechanical cleaning up.

Avoid formation and dispersal of dust in the air. Carbon fiber dust might form explosive mixtures with air and may cause electrical short-circuits when contacted to electrical devices.

Dust deposits must be removed by humid or wet cleaning or with a vacuum cleaner approved for combustible dust collection. Dry sweeping or blowing-off of dust deposits with compressed air is not allowed. Use only nonsparking tools.

7. Handling and storage

Precautions for safe handling:

Avoid overheating of material by improper handling.

Mechanical processing should generate as little dust as possible. Local exhaust ventilation is recommended to avoid the release of fibers into the work area.

Otherwise, good ventilation should be ensured and there should be no electrical equipment in the room or it should be protected in such a way that a short circuit by released fibers is prevented.

Insulating varnish may be applied to electronic boards and electrical terminals.

General industrial hygiene regulations are to be observed.

Wash hands before breaks and at the end of workday.

Tobacco should not be kept in the workplace.

Do not eat, drink or smoke in the workplace.

Conditions for safe storage, including any incompatibilities:

The appropriate company regulations for fire prevention are to be followed.

TECATEC SAN Carbon Semipreg

8. Exposure controls/personal protection

Control parameters:

The general limit for dust is valid.

Exposure controls:

The working area should be well ventilated.

Technical measures have priority over personal protective equipment.

Respiratory protection:

Wear protective breathing apparatus in case of dust exposure and/or insufficient ventilation. Wear dust mask filter type P3 or FFP3 (DIN EN 143/DIN EN 149).

Eye/face protection:

For mechanical operations wear safety glasses with side pieces or fully closed and tight-fitting goggles (DIN EN 166).

Hand protection/skin protection:

Skin protection should be used (barrier cream containing tanning agent).

For mechanical processing of carbon fibre reinforced products loose fitting, tight work clothes should be worn.

Persons sensitive to carbon fibres should wear leather protective gloves (DIN EN 388).

9. Physical and chemical properties

Appearance:

solid (semi-finished parts, wound on rolls)

Melting point/Melting range:

> 105 °C

Relative density:

ca. 1,48 g/cm³

Flash point:

N/A (solid)

Explosive properties:

N/A

Solubility(ies):

insoluble (water, 20 °C)

Odour/odour threshold:

product-specific

Initial boiling point and Boiling range:

N/A (solid)

Decomposition temperature:

> 300 °C

Flammability (solid, gas):

> 400 °C

Vapour pressure:

N/A (solid)

Partition coefficient: n-octanol/water:

N/A

TECATEC SAN Carbon Semipreg

10. Stability and reactivity

Chemical stability:

Product is stable. No hazardous reactions known when stored and handled according to instructions and used for its intended purpose.

Conditions to avoid:

Do not heat to a temperature above the melting or decomposition temperature.

Incompatible materials:

Strong oxidizing agents.

Hazardous decomposition products:

No decomposition and hazardous reactions known when handled according to instructions.

By strong overheating of the material hydrogen cyanide, monomers, oligomers, hydrocarbons and other gaseous decomposition products can be generated.

11. Toxicological information

Acute toxicity:

Carbon fibres and dust may cause irritation of eyes and skin. The symptoms will disappear after end of contact.

Inhalation of carbon fibres and carbon fibre dust may cause cough, irritation of nose and throat and sneezing.

Massive exposition may cause breathing difficulties, stasis of secretions and chest tightness

Chronic toxicity:

When used and handled according to specifications, the product does not have any harmful effects.

Other information:

In our experience and according to the literature provided to us the product does not cause any noxious effects when used and handled according to regulations.

12. Ecological information

No relevant information available.

Due to the consistency of the product a disperse distribution in the environment is not likely. Therefore, according to the present state of knowledge negative ecological effects are not expected.

TECATEC SAN Carbon Semipreg

13. Disposal considerations

Waste treatment methods:

Product residues can be recycled or treated in an energy recovery plant.
When segregated, unpolluted product residues can be recycled mechanically.

European waste catalogue:

The unpolluted product has no dangerous properties and is therefore not a hazardous waste within the meaning of regulation on the European List of wastes.

Waste codes/waste identification:

The exact assignment to a waste code must be carried out source- and use-related.
Proposals for the waste code numbers based on the probable use of the unpolluted product:
07 02 13 (waste plastic)
20 01 39 (plastics from separately collected fractions)

Packaging:

Uncontaminated or cleaned packaging can be recycled without verification.

14. Transport information

Not classified as dangerous in the meaning of transport regulations.

15. Regulatory information

Safety, health and environmental regulations/legislation specific:

According to annex II of the REACH regulation there is no legal obligation to compile safety data sheets for articles. We explicitly would like to point out that the present product handling information sheet (PHIS) is a voluntary information sheet for the handling of products, based on the same principle as our safety data sheets.
Information pursuant to Article 33 of Regulation (EC) No 1907/2006 (REACH): That article doesn't contain any substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0,1 % weight by weight (w/w).

EU regulations:

According to regulation (EC) No 1272/2008 (CLP) articles are not subject to classification and labelling requirements.

Chemical safety assessment:

A chemical safety assessment is not necessary for articles and therefore has not been carried out.

National regulations:

Storage class VCI/TRGS 510 (Germany): 11 (flammable solid materials)

TECATEC SAN Carbon Semipreg

16. Other information

Indication of changes:

First issue, status as of 05/22.

Our information and statements reflect the current state of our knowledge and shall inform about our products and their applications. They do not assure or guarantee chemical resistance, quality of products and their merchantability in a legally binding way. Our products are not defined for use in medical or dental implants. Existing commercial patents have to be observed. The corresponding values and information are no minimum or maximum values, but guideline values. They do not represent guaranteed properly values and therefore they must not be used for specification purposes. The customer is solely responsible for the quality and suitability of products for the application and has to test usage and processing prior to use. It is the user`s responsibility to ensure that existing legislation and regulation are followed.