

TECATRON PVX

1. Identification of the article and of the company

Trade name:

TECATRON PVX black

Application:

Semi-finished engineering plastics, finished parts

Note:

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

Manufacturer / Supplier:

Ensinger GmbH
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Deutschland
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www.ensinger-online.com

Informing department / competent person:

phib@de.ensinger-online.com

2. Hazards identification

Classification and labelling:

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

Other hazards:

There are no known risks, if the regulation/details for handling are observed.

3. Composition / information on ingredients

Description:

Article based on polyphenylene sulfide (PPS), CAS No 26125-40-6 or 25212-74-2.
Containing carbon fibres, gaphite and polytetrafluoroethylene (PTFE).
Possibly containing additives and processing aids.

Information on ingredients:

There are no substances from the candidateliste (SVHC) in the product present above a concentration of 0,1 % weight by weight (w/w).
The product doesn't contain any substance, which is supposed to be released under normal or reasonably foreseeable conditions of use.

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4. First aid measures

General advice:

No special measures necessary.

After inhalation:

After accidental inhalation of fumes or thermal decomposition products, remove person from the danger zone. Oxygen supply, apply artificial respiration if necessary. Keep quiet and warm, seek medical help immediately. Symptoms of poisoning often first appear after some hours.

After skin contact:

No special measures necessary.

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.

5. Firefighting measures

Suitable extinguishing media:

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

Unsuitable extinguishing media:

Water jet.

Hazardous combustion products / fire gases:

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

The release of sulphur dioxide and other sulphur oxides, hydrofluoric acid, tetrafluoroethylene, hexafluoropropylene, perfluoroisobutylene, carbonyl difluoride and other low-molecular fluorocarbons is possible.

Special protective equipment for firefighting:

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

Additional advice:

The product is difficult to ignite and stops burning 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.

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6. Accidental release measures

Personal precautions:

No special measures necessary.

Environmental precautions:

No special measures necessary.

Methods for cleaning up:

Mechanical cleaning up.

Avoid dry sweeping. Use an appropriate suction device for cleaning to avoid the generation of dust.

7. Handling and storage

Handling:

Avoid overheating of material by improper handling. The "Ensinger machining recommendations for semi-finished engineering plastics" are to be observed.

Mechanical processing should generate as little dust as possible. A local extraction system must be installed, or else a proper ventilation of the workplace must be guaranteed.

Take measures against static discharge. Keep away from sources of ignition.

Avoid inhalation of dust/mist/vapour.

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.

Storage:

No special measures necessary.

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

Large amounts of product should not be stored with inflammable materials. If in fire, polymers containing fluorine can cause relatively toxic gases to be released.

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8. Exposure controls / personal protection

Control parameters:

In case of mechanical processing the general limit for dust is valid.

Measures to prevent exposure:

The working area should be well ventilated.

Technical measures have priority over personal protective equipment.

Respiratory protection:

Wear protective breathing apparatus in case of insufficient ventilation. Composite filter for organic, inorganic, acetous inorganic and alkaline fumes/vapours and toxic particles (e.g. DIN EN 14387 type ABEK-P3).

Eye protection:

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

Hand / skin protection:

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

9. Physical and chemical properties

Appearance:

solid (semifinished or finished parts)

Melting point / Melting range:

ca. 281 °C

Density:

ca. 1,5 g/cm³

Flash point:

not applicable

Explosive properties:

not applicable

Water solubility (20 °C):

insoluble

Odour:

product-specific

Boiling point / Boiling range:

not applicable

Decomposition temperature:

> 370 °C

Ignition temperature:

> 480 °C

Vapour pressure:

not applicable

Partition coefficient: n-octanol/water:

not applicable

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10. Stability and reactivity

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.

Substances to avoid:

Halogens, strong oxidizing agents, aromatic solvents.

Hazardous decomposition products:

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

By overheating of the material gaseous, toxic and caustic decomposition products, especially hydrofluoric acid, tetrafluoroethylene, hexafluoropropylene, perfluoroisobutylene, carbonyl difluoride and sulphur oxides may be generated.

11. Toxicological information

Acute effects:

With proper use and in accordance with regulations there are no known dangers to health.

Slight inhalation of thermal decomposition products or smoking contaminated tobacco can cause "fluorine polymer fever" after 2 - 6 hours (allergic alveolitis with influenza-like symptoms: high temperature, shivering, chest pains, cough, increased pulse). Treatment is generally not necessary, symptoms disappear after 48 hours.

The result of massive inhalation of thermal decomposition products (in temperatures > 450 °C) is that after a symptomless time (4 - 24 hours) pulmonary oedema starts with the danger of suffocation.

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.

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13. Disposal considerations

Recovery / recycling:

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)

12 01 05 (plastics shavings and turnings)

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

Information on regulation (EC) No. 1907/2006 (REACH):

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.

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

Information pursuant to Article 33: 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), directives 67/548/EC and 1999/45/EC articles are not subject to classification and labelling requirements.

No dangerous substance in the sense of EU-directives.

National regulations:

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

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16. Other information

Indication of changes:

Status as of 04/14.

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.