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SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

Polyetheretherketone (PEEK)

Relevant identified use of substance/preparation and use which is advised against

None.

Relevant identified uses

Semi-finished products and plastic products.

Details of the supplier of safety data sheet

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SECTION 2: Hazards identification

There are no hazards known from this product

SECTION 3: Composition/information on ingredients

Polyetheretherketone (PEEK)

Possibly contains glass fibres, carbon fibres, reinforcements, pigments, colorants and other additives.

The product does not contain hazardous ingredients.

SECTION 4: First aid measures

Description of First aid measures

Inhalation

After inhalation of fire gases or thermal decomposition products, move affected person away from danger zone taking care of self-protection, start artificial respiration if necessary. Provide silence, warmth and seek medical attention.

Skin contact with hot PEEK

Cool skin immediately with cold water for a long time, remove dirty clothes. Do not remove cooled melt from skin. Cover burns with clean bandages. In case of skin irritation caused by glass fibres wash affected skin thoroughly with water. Do not rub.

Eye contact with hot PEEK:

Do not rub in case of foreign object in the eye. Do not remove cooled melt from skin. Cover the injured area with clean bandages. Cover eyes if necessary and seek medical attention of eye doctor immediately.

SECTION 5: Fire fighting measures**Suitable extinguishing media**

Water, dry powder, carbon dioxide, foam.

Advice for fire-fighters

Use self-contained respirator (breathing apparatus with compressed air).
Do not allow contaminated fire water to enter drains/surface water/ground water.

Additional advice

The product melts/catches fire in case of flame action and continues burning outside the source of ignition. Carbon dioxide, carbon monoxide and monomers can be released in case of fire. Depending on the fire conditions, fission and oxidation-products can occur. The fire can spread out if decomposition products are catching fire spontaneously. Cool melt with water. Fire water and fire rests must be collected and disposed of according to local rules.

SECTION 6: Accidental release measures**Environmental precautions**

Remove product residues mechanically from waste water before leading it to drains.

SECTION 7: Handling and storage**Advice for safe handling**

Avoid overheating due to incorrect processing, provide adequate ventilation at processing machines if necessary. Avoid inhalation of vapours. In case of dust formation, take action against electrostatic charging, keep away from ignition sources.

Storage

Observe the relevant specifications of operative fire protection.

SECTION 8: Exposure controls/personal protection

Mechanical processing (TRGS 900, status 2000)
MAC: 0,6 mg/m³

Personal protective equipment**Respiratory protection:**

In case of dust pollution use respiratory protection.

Eye / Face protection

Wear protection goggles with side shields in case of mechanical processing.

Skin protection

Use preventive skin protection. Protective gloves should be used in case of sensitivity against glass fibres.

Hygienic measures

The general specifications of industrial hygiene have to be followed. Wash hands before any break and at end of work. Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Physical state / form:	Solid (semi-finished product, finished product)
Colour:	different, depending on colouring
Density:	1,32-1,49 g/cm ³ at 20°C; DIN 53479
Odour:	Odourless
Melting point:	343 °C, DIN 53765
Thermal decomposition:	> 450 °C, DIN 53765-D-10
Ignition temperature:	595 °C; ASTM-D 1929
Explosion limits:	Not applicable
Water solubility (20 °C):	Non soluble Non soluble in common organic solvents

SECTION 10: Stability and reactivity**Conditions to avoid**

Thermal decomposition beginning at > 450°C

Incompatible materials

Strong oxidising agents, concentrated and strongly oxidising acids (e.g. concentrated sulphuric acid).

Hazardous decomposition products

Smoldering respectively incomplete combustion can cause toxic gas mixtures which mainly contain CO and CO₂.

SECTION 11: Toxicological information

No adverse effects are known if the product is handled correctly and precautions on work hygiene are observed. Contact with melted product can cause burns. The dust and glass fibres that may be released during mechanical treatment can cause irritations of skin, respiratory system and eyes.

SECTION 12: Ecological information

Due to its practical insolubility in water, a cleaning by means of filtration or sedimentation is possible.

SECTION 13: Disposal considerations

Correctly sorted and clean product can be recycled or disposed of in accordance with local laws and regulations for house hold waste or burned in an appropriate incineration plant.

Waste code for the polluted product: 20 01 06 (other plastics, European waste catalogue)

SECTION 14: Transport information

ADR/RID	no dangerous goods
ADN	no dangerous goods
IATA	no dangerous goods
IMDG	no dangerous goods

SECTION 15: Regulatory information**Labelling as per EU directives**

Labelling is not required.

National regulations

GefStoffV (15.11.1999): no labelling required.

WHG (12.11.1996): not hazardous to water according to VwVwS (17.05.1999)

SECTION 16: Other information

This safety data sheet is valid for PEEK, PEEK MT, PEEK MT black, PEEK GF.

The information given in this safety data sheet is based on our present available experience and only describes the security appearance of the product. It is up to the user to check if the product is suitable for the respective application. All questions regarding warranty and liability for this product are regulated according to our sales conditions unless legal requirements are differing.

Change index

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