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

1.1 Product identifier

Polyphenylene sulfide (PPS) with glass fibres.

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

None.

Relevant identified uses

Semi-finished products and plastic products.

1.3 Details of the supplier of safety data sheet

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1.4 Emergency Telephone Number: +49 30-19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Classification:

No classification as per regulation (EC) NO. 1272/2008.

Classification as per directive 67/548/EEC or directive 1999/45/EC

No classification as per directives 67/548/EEC or 1999/45/EC.

2.2 Label elements

Regulation (EC) No. 1272/2008

No labelling.

Directive 67/548/EEC or directive 1999/45/EC

No labelling as per directives 67/548/EEC or 1999/45/EC.

SECTION 3: Composition/information on ingredients

Chemical characterisation

Substance Name	CAS no.
Polyphenylene sulfide / PPS, mixture with glass fibres	for the basis polymer: 26125-40-6

SECTION 4: First aid measures**4.1 Description of First aid measures****Inhalation:**

Move affected person to fresh air immediately. Get medical advice in case of appearance of symptoms.

Skin contact with hot PPS

Cool affected skin areas immediately with cold water after contact with melted polymer. Seek medical advice immediately. Do not remove the solidified product.

Eye contact with hot PPS

Rinse eyes thoroughly with plenty of water. Get medical advice immediately after contact with melted product. Do not remove the solidified product.

Ingestion

Do not induce vomiting – seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Most important symptoms: not known

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

SECTION 5: Fire fighting measures**5.1 Extinguishing media****Suitable extinguishing media:**

water, foam, fire extinguishing powder.

5.2 Special hazards arising from the substance or mixture

Carbon monoxide, carbon dioxide (CO₂), sulphur oxides (SO_x)

5.3 Advice for fire-fighters

Special protective equipment for fire fighting: use self-contained respirator (breathing apparatus with compressed air) and wear hazmat suit.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Remove all ignition sources. Avoid dust formation.

6.2 Environmental precautions

No special environmental precautions necessary.

6.3 Methods and material for containment and cleaning up

Collect released material. Observe the regulations of local authorities for disposal.

6.4 Reference to other sections

Consult trained personnel. Observe information stated in section 8 „personal protection“ of this safety data sheet.

SECTION 7: Handling and storage**7.1 Precautions for safe handling****Hygienic measures**

Wash hands before any break and at end of work. Do not eat, drink or smoke during use. Observe the common precautionary measures for the handling of chemicals.

Advice for safe handling

Provide adequate ventilation and suction of dust at all processing equipment and work places if formation of dust is possible.

Incompatible products

Halogens, strong oxidants, aromatic solvents.

Advice on fire and explosion protection

Keep away from sources of ignition and heat.

7.2 Conditions for safe storage including any incompatibilities**Storing products**

Keep cool and dry.

Incompatible products

Halogens, strong oxidants, aromatic solvents.

Technical measures and storage conditions

No special storage conditions necessary. Avoid dust formation.

Storage category

13, non-combustible solids.

7.3 Specific end uses

Not known.

SECTION 8: Exposure controls/personal protection**8.1 Control Parameters****EC Occupational limit value**

Air threshold limit not defined.

Occupational exposure limit values (Germany)

Substance	TRGS 900 (MAC)	STEL Factor
General dust threshold limit, alveolar share	3 mg/m ³	2
General dust threshold limit, inhalable fraction	10 mg/m ³	2

Substance	Carcinogenic	Mutagenic	Teratogenic	Reproductive toxicity
General dust threshold limit, alveolar share	4		C	

DNELs

A registration according to REACH is not required for the product.

PNECs

A registration according to REACH is not required for the product.

8.2 Exposure controls

Appropriate engineering controls:

Use only in well ventilated rooms. Non-point exhaust and air dilution are usually not sufficient to limit the exposure of staff. Local exhaust has to be preferably used. Provide good ventilation.

Suction of ambient air: This is probably not a suitable sole measure to respect to the permissible exposure limit values.

Local exhaust: This measure is recommended if it is suitable to keep the exposure limit values of dust and gas below permissible limits.

Personal protective equipment

General advice

Do not inhale dust. Do not eat, drink or smoke during use.

Hygienic measures

Wash hands before any break and at end of work. Do not eat, drink or smoke during use. Observe the common precautionary measures for the handling of chemicals.

Respiratory protection

In case of insufficient ventilation wear full protective mask and respirator.

Eye / Face protection

Wear protection goggles with side shields.

Body protection

Personal protection

Hand protection

Chemical resistant gloves

Suitable material: Butyl rubber
Type: Butojet (manufacturer: KCL) or similar product, contact manufacturer if necessary.
Classification: as per EN 374: level 6
Material thickness: approx. 0,3 mm
Penetration time: 480 min

Environmental exposure controls

Do not allow product to enter drains / surface water / ground water.

Environmental precautions

Do not release to the environment.

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

Physical state / form:	solid
Density:	Approx. 1,3-2.1 g/ cm ³ at 20 °C, ISO 1183, procedure A
Odour:	Odourless
Melting point:	280 °C
Water solubility:	Non soluble
Flash point	> 480 °C

SECTION 10: Stability and reactivity**10.1. Reactivity**

Stable under normal conditions.

10.2. Chemical stability.

Thermal decomposition above 370 °C.

10.3 Conditions to avoid

Flame. Avoid temperatures above 370 °C / 698 °F. Avoid formation of dust. Risk of dust explosion in case of fine dust.

10.4 Incompatible materials

Halogens, strong oxidants, aromatic solvents.

10.5 Hazardous decomposition products

Carbon monoxide, carbon dioxide (CO₂), sulphur oxides, phenyl sulphides, hydrogen sulphide, dichlorobenzene, stearic acid, phenol, acetic acid, chlorinated products, formic acid, phenyl mercaptan

SECTION 11: Toxicological information

Toxicological data are not available. Observe the common hygienic measures for the handling of plastics.

SECTION 12: Ecological information

Ecological data are not available. Do not allow uncontrolled discharge of product into the environment.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Product information**

SO₂ has to be removed by flue gas scrubbing.

Dispose of product under observing legal regulation on waste. The disposal method depends on the product composition at the time of disposal as well as on local regulations and disposal possibilities.

Uncleaned packaging

Contaminated packaging should be emptied as far as possible and may be reused after appropriate cleaning.

European waste catalogue 150102 – packaging made of plastic

SECTION 14: Transport information

ADR/RID not applicable

ADN not applicable

ICAO/IATA No dangerous good.

IMDG not applicable

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Water hazard class: nhw not hazardous to water

WHC 766

WHC code no. 766

WHC source KBwS-Assessment

15.2 Material safety evaluation

Material safety evaluation (Chemical Safety Assessment- SA) is not required.

Authorization – REACH regulation, title VII

This substance does not meet the criteria.

Restrictions– REACH regulation, title VIII

No restrictions apply to this substance.

National regulations

No information available.

SECTION 16: Other information

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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