

**MATERIAL SAFETY DATA SHEET (EC 1907/2006)**

Material name

Neoss MSDS 5 - PEEK

Document no

11024

Version

0

Date

2010-06-02

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1 of 4**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

Trade name	PEEK
Company	Neoss Ltd. Windsor House Cornwall road Harrogate, HG1 2PW www.neoss.com
Telephone	+44 1423 817-733
Telefax	+44 1423 817-744
Email	info@neoss.com
Emergency telephone number	Your local Neoss office
Use of the Substance /Preparation	The materials are generally used for injection moulding, extrusion or machining operations.

SECTION 2: COMPOSITION/ INFORMATION ON INGREDIENT

Preparation consisting of: Polyether ether ketone (CAS 31694-16-3)

SECTION 3: HAZARDS IDENTIFICATION**To Humans**

See section 11 and 15.

Preparation is not classified as hazardous in the sense of directive 1999/45/EC.

Product will burn in fire.

SECTION 4: FIRST AID MEASURES**Inhalation:**

Remove person to fresh air.

Eye Contact

Wash thoroughly using copious amounts of water. Seek medical help if necessary.

Skin Contact

Wash thoroughly using copious amounts of water. No irritation is likely to develop following contact with human skin.

In the event of contact with molten product:

Cool affected area quickly with water.

Do not attempt to remove hardened product.

Medical attention necessary.

Ingestion

No treatment necessary.

Special resources necessary for first aid

No data available



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SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Adapt to the nature and extent of the fire.

CO₂, Dry Extinguisher, Water jet spray, Foam

Extinguishing media which must not be used for safety reasons

No data available

Special exposure hazards arising from the substance or preparation itself, combustion product, resulting gases.

In case of fire the following can develop:

Oxides of carbon

Product will burn, but smoke emission is low. Dust is ignitable but will not sustain combustion. A high temperature source of ignition is required. Insensitive to sparks. The minimum spark energy required for ignition of a dust cloud is greater than 5000 mJ. It will not train fire, e.g. along beams etc.

Special protection equipment for fire fighters

Protective respirator with independent air supply.

Full protection, if necessary.

Further Information

Dispose of contaminated extinction water according to official regulations.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Refer to section 13 and for personal protection refer to section 8

Personal precautions

Avoid inhalation and contact with eyes or skin.

Ensure sufficient supply of air.

Avoid build up of dust.

Remove possible cause of ignition – do not smoke.

Take precautions against electrostatic charges.

Environmental measures

Prevent surface and ground water infiltration, as well as ground penetration.

Methods for cleaning up

Collect mechanically and

SECTION 7: HANDLING AND STORAGE

Handling

Advice for safe handling:

General hygiene measures for the handling of chemicals are applicable.

Eating, drinking, smoking, as well as food storage, is prohibited in work room.

Avoid build up of dust.

Local Exhaust Ventilation at the workplace or on the processing machines required.

Note danger of explosive-dust.

Machine cleaning (purging):

Purging with other polymers (e.g. Polyethylene) at high temperatures can be hazardous. They may emit decomposition fumes which contain oxides of carbon and irritants. Auto ignition may also occur. Local exhaust ventilation is required. The relevant Safety Data Sheet for the purge material to be used should be consulted.

Storage

Requirements for storage rooms and containers:

Not to be stored in gangways or stair wells.

Store products enclosed, in original packing.

Special storage conditions:

The chemical structure and highly stable nature of PEEK polymers are such that the polymer's properties will not be affected by ageing at ambient temperature.

Providing the product is suitably stored (dry storage avoiding extensive exposure to direct sunlight) and remains packaged in its original form, PEEK polymers will remain stable and therefore may be stored for extended periods of time prior to use. Tests have shown that polymer viscosity remains stable over a period of up to 20 years.



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Ensure good ventilation. This can be achieved by local exhaust ventilation or general ventilation.

Respiratory protection:

If above exposure limits are likely to be exceeded, use breathing mask with fine dust filter (EN 143)

Hand protection: Impervious Gloves:

When dealing with heated material: Insulating gloves EN 407 (heat)

Eye Protection:

Eye protection with side protection (EN 166)

Skin Protection:

Protective working garments (e.g. safety shoes EN 344, long sleeved protective working garments)

Additional information on hand protection – No tests have been performed.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Solid (Granulate, Rod or Plate)
Colour:	Grey – Brown – White
Odour:	odourless
Ph-value undiluted:	N/A
Boiling point/range:	N/A
Melting point/range:	343 °C
Flash point:	N/A
Ignition temperature:	575 °C
Flammability (solid/gases):	595
Vapour Pressure:	N/A
Relative density (g/ml):	1.30
Solubility in water:	Insoluble

SECTION 10: STABILITY AND REACTIVITY

Conditions to avoid

See section 7

Stable when handled and stored correctly.

Electrostatic charge.

Open flame, ignition sources.

Decomposition: 450 C

Materials to avoid

See section 7

Concentrated Sulphuric acid

Hazardous decomposition products

See section 5

SECTION 11: TOXICOLOGICAL INFORMATION

This product is essentially inert and non-toxic.

Where appropriate the material has been tested in accordance with the following tests

US Pharmacopoeia Class VI

ISO 10993 – 1 Guidance

ISO 10993 – 5 Cytotoxicity

ISO 10993 – 10 Sensitisation

Thermal Burns (molten polymer will adhere to skin and cause severe burns)



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SECTION 12: ECOLOGICAL INFORMATION

Water hazard class: Not classified

Self classification: N/A

Further ecologic data: Due to the poor solubility of the product, no harmful effects on plants and/or aquatic organisms are to be expected when handled with due care and attention.

SECTION 13: DISPOSAL CONSIDERATIONS

For the material/preparation/residue

E.C disposal code no:

The waste codes are recommendations based on the scheduled use of this product.

For alternative uses and applications, other waste codes may be allocated under certain circumstances.

07 02 13 – waste plastic

07 02 99 – waste not otherwise specified.

Recommendation:

Pay attention to local and national official regulations.

E.g. dispose at suitable refuse site.

E.g. suitable incineration plant.

For contaminated packing material

See section 13

Pay attention to local and the national official regulations.

SECTION 14: TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations

SECTION 15: REGULATORY INFORMATION

Labelling According To EC-Regulations

Other data According to the Dangerous Preparations Directive (1999/45/EG): no labelling

SECTION 16: OTHER INFORMATION

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is given in good faith being based on the latest information available and is to the best and belief accurate and reliable at the time of preparation. However no representation, warranty or guarantee is made as to its accuracy, reliability or completeness and we assume no responsibility and disclaims any liability incurred in using this information. The product is supplied under condition that the user accepts the responsibility to satisfy himself so as to the suitability and completeness of such information for his own particular use.