

MSDS (Material Safety Data Sheet)

Revision Date: 2022.11.28

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Section 1: Chemical Product & Company Information

1.1 Chemical information

Name of Chemical:	Poly(ether-ether-ketone)
Abbreviation:	PEEK
CAS No.:	29658-26-2
Formula:	[OC6H4OC6H4COC6H4] _n
Trademark or Trade Name:	PEEKCHINA
Grade of Brand:	PEEK JS-S1
Chemical Type:	Rod/Bar; Granule; Sheet; Filament

1.2 Intended Use and Restricted Use

Intended Use:	Suitable for implanted medical device injection molding, machining and 3D printing manufacturing.
Restricted Use:	No.

1.3 Manufacturer or Supplier Information

Manufacturer:	Taizhou Ark International Trade Co., Ltd.
Address:	E801 Xintai Square, No.168 Guangchang South Road, Jiaojiang Economic Development Zone, Taizhou City, Zhejiang, China
Postcode:	318000
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Section 2: Composition/Information on Ingredients

Substances

Name:	Poly(ether-ether-ketone)
Chemical	Poly(oxy-1,4-phenyleneoxy-1,4-phenylene-carbonyl-1,4-phenylene)
alias:	
CAS No.:	29658-26-2

台州方舟国际贸易有限公司
TAIZHOU ARK INTERNATIONAL TRADE CO.,LTD.

Formula: $[OC_6H_4OC_6H_4COC_6H_4]_n$

Section 3: Hazards Identification

3.1 GHS Hazard Classification

Not a hazardous substance or mixture according to the Global Coordination System (GHS).

3.2 GHS Label Elements, Including Precautionary Statements

Not a hazardous substance or mixture according to the Global Coordination System (GHS).

Beware - Substance has not been fully tested.

3.3 Physical and Chemical Hazards

There is no physical or chemical danger according to the currently available with information.

3.4 Health Hazards

There is no health hazard according to the currently available with information.

3.5 Environmental Hazards

There is no environmental hazard according to the currently available with information.

3.6 Other Hazards

No.

Section 4: First Aid Measures

4.1 Description of Necessary First Aid Measures



If inhaled

If inhaled, transfer the patient to the fresh air, let the patient rest, and give oxygen when breathing is difficult. If symptoms develop, seek medical treatment immediately.

Skin contact

In case of contact with skin, wash immediately with plenty of soap and water. In contact with high-temperature molten products: cool affected areas with water quickly, do not attempt to remove hardened products, and seek medical attention as soon as possible.

Eye contact

Open the eyelids and rinse with eye lotion or clear water for at least 15 minutes. Seek medical attention if the symptoms persist.

If swallowed

Do not feed anything to an unconscious person. Rinse mouth with water.

4.2 The Most Important Symptoms and Health Effects

The most important known symptoms and effects are described in labels (see Section 3.2) and/or in section 11.

4.3 Instructions for Prompt Medical Attention and Special Treatment Needed

No data available.

4.4 Special Tips for Doctor

No data available.

Section 5: Fire Fighting Measures

5.1 Extinguishing Medium**Extinguishing Methods and Extinguishing Medium**

Use water spray, alcohol-resistant foam, dry powder or carbon dioxide.

5.2 Special Hazards Arising From The Substance or Mixture

Carbon oxides.

5.3 Extinguishing Precautions and Protection Measures

If necessary, wear a self-contained respirator for firefighting operations.

Section 6: Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Avoid dust formation. Avoid inhaling vapors, aerosols or gas. For personal protection, see section 8.

6.2 Environmental Precautions

Do not let the product enter drains.

6.3 Methods for the Reception and Removal of Leaking Chemicals, and the Disposal Materials Used

Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to Other Sections

For disposal processing see section 13.

Section 7: Handling and Storage

7.1 Precautions for Safe Operation

Suggestions for fire and explosion prevention

Provide appropriate exhaust equipment where dust is formed.

Hygienic measure

Routine industrial hygiene operations.

For preventive measures, see section 3.2.

7.2 Conditions for Safe Storage, Including any Incompatibilities

Storage condition

Store in the shade. Keep container tightly closed in a dry and well-ventilated place.

VCI Storage grade

German Storage Class(TRGS 510): 13: non-combustible solid.

Section 8: Exposure Controls/Personal Protection

8.1 Control Parameters

Hazard composition and occupational exposure limits

There are no known nationally prescribed exposure limits.

8.2 Exposure Controls

Appropriate technical controls

Routine industrial hygiene operations.

Personal protective equipment



Eye protection

Equipment for eye protection tested and approved under appropriate government standards such as NIOSH (USA) or EN 166 (EU).

Skin protection



Use with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.

Dispose of contaminated gloves carefully after use in accordance with relevant laws and regulations and effective laboratory procedures. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 2016/425 and the standard EN 374 derived from it.

Body protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific workplace. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.



Respiratory system protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1(EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let the product enter drains.

Section 9: Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Appearance	Form: solid; Colour: white/off-white
Odour	No data available
Odour Threshold	Tasteless
pH	No data available
Melting Point/Freezing Point	Melting point/range: 343°C
Initial Boiling Point and Boiling Range	No data available
Flash Point	No data available
Evaporation Rate	No data available
Flammability(Solid, Gas)	No data available
Upper/Lower Flammability or Explosive Limits	No data available
Vapour Pressure	No data available
Vapour Density	No data available
Density	1.3 g/mL at 25°C
Water Solubility	Insoluble in water
Partition Coefficient: n-octanol/water	No data available
Auto-ignition Temperature	No data available

Decomposition Temperature	No data available
Viscosity	No data available
Explosive Properties	No data available
Oxidizing Properties	No data available

9.2 Other Safety Information

No data available.

Section 10: Stability and Reactivity

10.1 Reactivity

Stable under the recommended storage conditions.

10.2 Stability

Stable under the recommended storage conditions.

10.3 Hazardous Reaction

No data available.

10.4 Conditions to Avoid

Electrostatic charge. Naked fire, combustion source. Above decomposition temperature: 450°C.

10.5 Incompatible Materials

Strong oxidizing agents.

10.6 Dangerous Decomposition Products

Other decomposition products-No data available.
In the event of fire: see section 5.

Section 11: Toxicological Information

11.1 Information on Toxicological Effects

Acute toxicity

Swallow: no data available.
Inhalation: no data available.
Skin contact: no acute toxicity.

Skin corrosion/irritation

No skin irritation.



Serious eye damage/eye irritation

No data available.

Respiratory or skin sensitisation

No respiratory or skin sensitisation reactions.

Germ cell mutagenicity

No germ cell mutagenicity.

Carcinogenicity

No carcinogenic.

Reproductive toxicity

No reproductive toxicity.

Specific target organ system toxicity-single exposure

No data available.

Specific target organ system toxicity-repeated exposure

No data available.

Aspiration hazard

Mechanical damage to the respiratory tract.

11.2 Additional Information

The material has been tested and analyzed by inspection institutions. The material meets the requirements of ASTM F2026 and ISO 10993 standards, and the biological toxicity meets the requirements of medical implanted materials.

Section 12: Ecological Information

12.1 Ecotoxicity

Low toxicity to aquatic organisms.

12.2 Persistence and Degradability

The product is not-biodegradable.

12.3 Bioaccumulative Potential

No data available.

12.4 Mobility in Soil

Insoluble in water, lower mobility in soil.

12.5 Result of PBT and vPvB Assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6 Other Adverse Effects

No data available.

Section 13: Disposal Considerations

13.1 Waste Disposal Method

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Disposal of as unused products.

Section 14: Transport Information

14.1 UN Number

ADR/RID: —

IMDG: —

IATA-DGR: —

14.2 UN Proper Shipping Name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA-DGR: Not dangerous goods

14.3 Transport Hazard Class(es)

ADR/RID: —

IMDG: —

IATA-DGR: —

14.4 Packaging Group

ADR/RID: —

IMDG: —

IATA-DGR: —

14.5 Environmental Hazards

ADR/RID: No

IMDG

Marine

IATA-DGR: No

pollutant(Yes/No): No

14.6 Special Precautions for User

Please choose the appropriate transportation tools and storage conditions according to the



nature of the chemical. The means of transport should be equipped with corresponding variety and quantity of fire-fighting materials and leakage emergency treatment equipment. If you choose road transport, please follow the prescribed route.

14.7 Incompatible Materials

Strong oxidant.

14.8 Further Information

According to transportation regulations, it is not classified as dangerous goods.

Section 15: Regulatory Information

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture.

Law of the People's Republic of China on Occupational Disease Prevention

Classification catalogue of occupational hazard factors: not listed.

Regulations on the Safety Management of Hazardous Chemicals

Hazardous chemicals catalogue(2018): not listed.

Registration Measures for Environmental Management of Hazardous Chemicals

Catalogue of hazardous chemicals for key environmental management(2014): not listed.

Regulations on the Administration of Narcotic Drugs and Psychotropic Drugs

Catalogue of varieties of narcotic drugs(2013): not listed.

Directory of varieties of psychotropic drugs(2013): not listed.

Measures for Environmental Management of New Chemical Substances

List of existing chemical substances in China: Has been listed.

Other Provisions

Please note that waste disposal should also meet the requirements of the local regulations.

Section 16: Other Information



Further Information

Copyright: Taizhou Ark International Trade Co.,Ltd.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety



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precautions. It does not represent any guarantee of the properties of the product.
It is under the Quality Management System of ISO 13485:2016 & ISO 9001:2015.

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