



PEEK MATERIAL SAFETY DATA SHEET

Material Safety Data Sheet

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Issue Date: JANUARY 2024

Product Name: P1001

1. Identification of the Substance / Company Identification

Trade Name: PEEK FILLED COMPOUND

Use: COMPRESSOR SEALS

Company: CMS POLYMERS

8700 SCRANTON ST.

HOUSTON, TX 77075

USA

Telephone: 832-804-9816

Email:

2. Composition Information on Ingredients

Components

Poly ether ketone (PEEK)

Polytetrafluoroethylene

Carbon fiber

Graphite

Components not precisely identified are proprietary or non-hazardous.



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3. Hazards Identification

Hazardous Classification

Not classified as dangerous goods according to the ADG Code.

Not classified as hazardous according to criteria of NOHSC.

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4. First Aid Measures

General Advice: Remove from exposure, lie down. Never give anything by mouth to an unconscious person. No hazards which require special first aid measures. If a person vomits when laying on his back, place him / her in the recovery position.

Inhalation: Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. Consult a physician.

Skin Contact: There are no hazards which require special first aid measures. Wash off with soap and water. Cool skin rapidly with cool water after contact with molten material. Do not peel polymer from the skin. Consult a physician.

Eye Contact: Rinse thoroughly with plenty of water, also under the eyelids. Consult a physician.

Ingestion: No hazards which require special first aid measures.

5. Fire-Fighting Measures

Suitable Extinguishing Media: Carbon dioxide (CO₂), dry powder, foam or water.

Specific Hazards During Fire Fighting: Hazardous decomposition products are formed under fire conditions. Carbon monoxide, hydrogen fluoride and acid fluorides.

Special Protective Equipment for Fire-Fighters: In the event of fire wear self-contained breathing apparatus. Wear suitable protective equipment. Wear neoprene gloves during cleaning up work after a fire.



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6. Accidental Release Measures

Personal Precaution: Ventilate the area. Refer to protective measures listed in sections 7 and 8. Material can create slippery conditions.

Environmental Precautions: No special environmental precautions required.

Methods for Cleaning Up: Sweep up and shovel into suitable containers for disposal.

7. Handling and Storage

Advice on Safe Handling: Avoid breathing dust and avoid dust generation.

Storage Requirements: No special storage conditions required. Keep container tightly closed in a dry and well-ventilated area. Protect from contamination.

8. Exposure Controls / Personal Protection

Exposure Guidelines: There are no exposure guidelines established.

Engineering Measures: Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment:

Respiratory Protection: When workers are facing concentrations above the exposure limit, they must use appropriate certified respirators.

Eye Protection: Safety glasses with side- shields.

Skin and Body Protection: If there is potential for contact with hot / molten material wear Heat resistant clothing and footwear.

Regular cleaning of equipment, work area and clothing required.



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9. Physical and Chemical Properties

Form: Granular

Color: Black

Odor: None

Melting Point: 327 – 342 °C

Flash Point: Not Applicable

Density: 1.9-2.3 g/cm³

Specific Gravity: 1.35

Solubility: Insoluble

10. Stability and Reactivity

Chemical Stability: Stable at normal temperatures and storage conditions

Materials to Avoid: powdered, metals, finely divided aluminum, potential oxidizers Like fluorine (F₂) and related compounds.

Hazardous Decomposition Products: Hydrogen fluoride, Carbonyl fluoride and Acid fluorides.

Hazardous Reactions: During drying cleaning and molding, small amounts of Hazardous gases and or particulate matter may be released. These may irritate eyes nose and throat. Large molten masses may give off hazardous gases.

11. Toxicological Information

Acute Oral Toxicity: LC50/rat: >11,280 mg/kg

Acute Inhalation Toxicity: rat; Lung irritation

Skin Irritation: Human non-irritant.

Sensitization: Human There are no reports of human skin sensitization



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12. Ecological Information.

Ecotoxicological Information. Aquatic toxicity. No information available. Toxicity is expected to be low based on the insolubility of the product in water.

13. Disposal Considerations

Product: Like most thermoplastic plastics the product can be recycled. If recycling is not practicable, the disposal shall comply with local regulations.

Contaminated Packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport Information

Further Information: Not classified as dangerous goods according to the ADG code.

15. Regulatory information

Further Information: Not classified as hazardous according to criteria of NOHSC.

National regulatory information. SUSDP : No poison schedule number allocated.

16. Other information:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.