

SAFETY DATA SHEET



PEEK

Version 1

Revision Date 07/09/2024

Print Date 07/09/2024

SECTION 1: IDENTIFICATION

Product Names: PEEK
Other / Generic Names: Polyetheretherketone

Manufacturer or supplier's details

Company: The Gund Company, Inc.
2121 Walton Road
St. Louis, MO 63114
Telephone: (314) 423-5200
Visit Our Website: www.thegundcompany.com
Email Address: info@thegundcompany.com
Emergency Telephone: (262) 522-7990

Recommended use of the chemical and restrictions on use

Recommended use: Used in applications where performance at elevated temperatures is required.
Restrictions on use: See *Section 15* for restrictions.

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification

Not classified as hazardous.

GHS Label Element

None required.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components

Component	CAS-No.	Concentration (%)
Polyetheretherketone	29658-26-2	≥ 99

SECTION 4: FIRST AID MEASURES

For dust generated from further processing or fumes generated from thermal decomposition:

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EYE CONTACT:	Flush eyes with water as precaution. Remove contact lenses if applicable. Protect unharmed eye. Keep eye wide open while rinsing. If irritation persists, seek medical attention.
SKIN CONTACT:	No health risks concerning skin contact at room temperature. Wash with soap and water. If molten material comes in contact with the skin, cool under running water. Do not attempt to remove the molten material from the skin. Get medical attention immediately.
INGESTION:	Rinse the victim's mouth with plenty of water. If swallowed, do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Seek medical attention.
INHALATION:	No specific treatment is necessary since this material is not likely to be hazardous by inhalation. If fumes from overheating are inhaled, remove to fresh air. Seek medical attention if respiratory symptoms occur or breathing becomes difficult.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE PROPERTIES:	Dust is flammable and explosive when finely divided and suspended in air.
EXTINGUISHING MEDIA:	Extinguish fires with water, foam, carbon dioxide, or dry chemical media.
SPECIAL FIRE FIGHTING PROCEDURES:	Fire-fighters should protect themselves from decomposition and combustion products by using a full-face self-contained breathing apparatus and impervious protective clothing.
HAZARDOUS DECOMPOSITION PRODUCTS:	Hazardous gases/vapors produced in fire are carbon oxides, hydrocarbons, sulfur oxides, and hydrogen fluoride. The release of other hazardous decomposition products is possible.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES:	If a spill occurs, stop the leak at the source and sweep up for disposal. Do not flush to sewers or waterways.
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SECTION 7: HANDLINING AND STORAGE

HANDLING AND STORAGE:

Avoid dust formation and control ignition sources. Keep away from heat, sparks, flames, and other ignition sources. Prevent dust accumulations and dust clouds. Employ ground, bonding, venting, and explosive relief provisions in accordance with accepted engineering practices and NFPA provisions in any process capable of generating dust and/or static electricity. Store in a sprinkler protected warehouse. Keep a fire extinguisher near if welding is done in the area. If a heat source is present, keep the area well ventilated.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

VENTILATION:

Provide local exhaust ventilation to keep airborne particulate concentrations below 15 mg/m³, the OSHA limit for nuisance dusts.

RESPIRATORY PROTECTION:

If levels are above published OELs, then a NIOSH approved respirator.

EYE PROTECTION:

Safety glasses with side shields.

SKIN PROTECTION:

When handling molten material, protective clothing such as long sleeves or laboratory coat should be worn. Use heat-resistant gloves, boots and face protection.

Exposure Guidelines:

Ingredient Name	CAS #	ACGIH TLV	OSHA PEL
Polyetheretherketone particulates	29658-26-2	10 mg/m ³	15 mg/m ³

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:

Solid, gray-brown color

ODOR:

None

MELTING POINT:

> 644°F (340°C)

SOLUBILITY IN WATER:

Insoluble

SPECIFIC GRAVITY (H₂O=1):

1.30 g/cc

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SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions.

CONDITIONS TO AVOID (STABILITY): To avoid thermal decomposition, avoid elevated temperatures. Heating can result in the formation of gaseous decomposition products, some of which may be hazardous.

MATERIAL TO AVOID (INCOMPATIBILITY): Concentrated sulfuric acid.

CONDITIONS TO AVOID (POLYMERIZATION): Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: None

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: None

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose in accordance with all applicable regulations.

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (DOT): Not regulated as a dangerous good.

GENERAL: Not regulated as a dangerous good.

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): All substances listed or exempt on inventory.

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: None

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313 REPORTABLE INGREDIENTS:

No

STATE REGULATIONS:

Materials known to the State of California to cause cancer or reproductive toxicity: This product poses no significant risk to persons exposed during normal use as defined by the California Safe Drinking Water and Toxics Enforcement Act (Proposition 65).

INTERNATIONAL REGULATIONS:

As an article, the product does not need to be labeled in accordance with EC-directives or respective national laws.

This product is REACH and RoHS compliant.

SECTION 16: OTHER INFORMATION

DISCLAIMER:

To the best of our knowledge, the information contained herein is accurate. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.