

PAN Precursor Fiber
Material Safety Data Sheet (MSDS)

Shandong Guotai Dacheng Technology Co., Ltd.

Date: January 24, 2024

PAN Precursor Fiber Material Safety Data Sheet

1. Product and Manufacturer Information

Product Name: PAN Precursor Fiber (Polyacrylonitrile Precursor Fiber)

Company Name: Shandong Guotai Dacheng Technology Co., Ltd.

Address: Guotai Dacheng New Materials Park, Daiyue District, Tai'an City, Shandong Province, China. Postal Code: 271000

Manufacturer Contact:

Email: sdgtdc@gtdcki.com

General Phone: 0538-8316053

Emergency Phone: 0538-8316089

2. Composition/Information on Ingredients

Chemical Name: PAN Precursor Fiber (Polyacrylonitrile Precursor Fiber)

Chemical CAS No.: N/A

Component	Weight Percentage	Chemical Formula	Hazards	CAS No.	TSCA Status
PAN	>98%	CH ₂ =CH-CN	—	—	—
Oil Agent	~1%	Confidential	—	—	—

3. Hazards Identification

Health Risks:

Inhalation: Short fibers may cause respiratory discomfort.

Skin Contact: May irritate the skin.

Eye Contact: May cause eye irritation or allergic reactions.

Permissible Exposure Limit (PEL): No data available.

Chronic Effects/Carcinogenicity: Not classified as carcinogenic by NTP, IARC, or OSHA.

Environmental Impact: Difficult to degrade naturally.

4. First-Aid Measures

Inhalation: Move to fresh air and rinse mouth with water.

Skin Contact: Wash thoroughly with water.

Eye Contact: Immediately flush eyes with copious water. Seek medical attention if irritation persists.

5. Fire-Fighting Measures

Special Firefighting Procedures:

Wear positive-pressure air respirators and fire-resistant clothing.

Extinguish fires from a safe distance.

Suitable Extinguishing Media:

Dry chemical, carbon dioxide.

6. Accidental Release Measures

Emergency Procedures:

No specific requirements for emergency personnel.

Environmental Impact: None reported.

7. Handling and Storage

Handling:

Direct contact may irritate the skin. Wear protective gloves.

Storage:

Store in a cool, dry place.

Wash hands with soap after handling.

8. Exposure Controls/Personal Protection

Respiratory Protection: Use HEPA-filtered masks.

Hand Protection: Wear cotton gloves.

Eye Protection: Safety goggles.

Protective Clothing: Minimize skin contact; ensure access to emergency showers.

Exposure Limits:

Component	OSHA PEL	ACGIH TLV
Total Dust	15 mg/m ³	10 mg/m ³
Respirable Particles	5 mg/m ³	3 mg/m ³

Ventilation: Use local exhaust during cutting or processing.

9. Physical and Chemical Properties

Appearance: Light yellow filament.

Odor: Odorless.

Density: 1.17 g/cm³.

Melting Point: 317°C.

Solubility:

Insoluble in water.

Soluble in inorganic solutions (e.g., sodium thiocyanate, nitric acid, zinc chloride).

Soluble in organic solvents (e.g., DMF, DMAC, DMSO).

10. Stability and Reactivity

Hazardous Decomposition: None under normal conditions.

Flammability: Combustible. Releases toxic fumes when burned.

11. Toxicological Information

Carcinogenicity: Not classified.

Irritation: Dust may irritate skin.

Mutagenicity: Contains silicone-based oil agents.

12. Ecological Information

Biodegradability: Not significant.

Ecotoxicity: No data available.

13. Disposal Considerations

Disposal Method: Do not incinerate. Comply with local environmental regulations.

RCRA Status: Not listed as hazardous waste.

14. Transport Information

Hazard Class: Not regulated.

15. Storage

Conditions: Store in a dry, ventilated area. Protect from moisture and fire.

Shelf Life: 24 months from production date.

16. Regulatory Information

SARA 302: Not listed.

SARA 313: Not listed.

17. Other Information

None.

Shandong Guotai Dacheng Technology Co., Ltd.

Date: January 24, 2024

山东国泰大成科技有限公司

2024年1月24日

