

MSDS

1. Product and Company Information

Product Name: Elastic Nonwoven Fabric

Company Name: Guangdong Huiming Nonwoven Technology Co., Ltd.

Company Address:

Building 18, Zone K, Zhongchuang City, Yinghong, Yingde, 513042, Guangdong, China.

Tel: 13922136651

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General Product Inquiry Tel: 13922136656

2. Composition Information

(1) pp Nonwoven Fabric

Component	Concentration	CAS No.
Polypropylene	100%	9003-07-0

(2) Spandex Fiber

Component Chemical Name Weight Ratio% CAS No.

A Polyurethane ≥ 85 9048-58-2

B Stabilizer ≤ 3 Confidential

C Titanium Dioxide 0—3.8 13463-67-7

D Fiber Finishing Agent ≤ 8 Confidential

N,N-Dimethylacetamide (DMAC) ≤ 0.3 127-19-5

(3) EVA Hot-Melt Adhesive

Component	Concentration	CAS No.
Naphthenic Oil	10~20	67254-74-4
Thermoplastic Rubber	20~40	123-77-3144-55-8
Synthetic Resin	40~70	

3. Hazard Identification

Appearance & Odor:

Fibrous material with a faint odor. If burned, the product releases hazardous gases, primarily carbon monoxide, nitrogen oxides, hydrogen cyanide, etc. These gases are similar to those produced by burning wool, silk, or other animal hair. During use, the product may emit trace amounts of DMAC (N,N-Dimethylacetamide), especially in poorly ventilated or confined spaces. (For details, refer to Sections 8 & 11.)

Potential Health Effects:

Inhalation: Not hazardous under normal conditions.

Eye Contact: May cause mechanical irritation or injury due to physical abrasion.

Skin Contact: No significant health hazards.

Ingestion: Not hazardous.

Carcinogenicity:

Titanium Dioxide (TiO₂): IARC Group 3 (Not classifiable as carcinogenic to humans).

DMAC: ACGIH A4 (Not suspected as a human carcinogen). Potential Environmental Impact:

This product is not biodegradable.

4. First Aid Measures Inhalation:

Move to fresh air immediately. Seek medical attention if necessary.

Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes (remove contact lenses if present). Seek medical advice.

Skin Contact: No significant hazard, but wash hands with soap after handling. Ingestion: Not hazardous, but seek medical advice if needed.

First Aid Protection Measures: None required.

5. Firefighting Measures Flammability Properties:

Flash Point: Not applicable

Autoignition Temperature: 200–300°C

Flammability: Can burn when exposed to open flame

Suitable Extinguishing Media: Water spray, foam, dry powder, carbon dioxide (CO₂)

Firefighting Instructions:

If burned, the product releases toxic gases, including carbon monoxide (CO), nitrogen oxides (NO_x), and hydrogen cyanide (HCN)—similar to burning wool, silk, or animal hair.

Move people upwind of the fire.

Firefighters must wear full protective equipment (PPE).

6. Accidental Release Measures

Protective measures for responders: See Section

Normal handling does not typically cause spills. Land spill: Sweep up and dispose of in a waste container. Water spill: Remove from water and place in a suitable container for disposal.

7. Handling and Storage Precautions

Handling:

Use in a well-ventilated area.

Avoid excessive exposure to moisture, oil vapors, and airborne fibers.

Recommended PPE: Safety goggles, gloves, etc.

Shower after handling.

Storage:

Store in a dry, well-ventilated place.

Keep away from direct sunlight, high temperatures, humidity, and ignition sources.

Note: This product contains trace amounts of DMAC ($\leq 0.3\%$), which may evaporate during use.

Prolonged or excessive exposure may cause liver damage.

8. Exposure Controls and Personal Protection

Exposure Limits:

Polyurethane: OSHA Particulates (Not Otherwise Regulated) – No specific limit assigned (Other components to be added as applicable)

Exposure Controls:

Occupational Exposure Controls:

Engineering Controls:

Ensure adequate ventilation to maintain airborne fiber/dust levels below exposure limits.

Under normal ventilation conditions, no additional protection is required.

Respiratory Protection:

If operations generate airborne fibers, mist, or dust, use an air-purifying respirator.

Hand Protection:

Recommended: Protective gloves (e.g., rubber gloves).

Eye Protection:

Wear safety goggles if needed (e.g., during cutting or high-dust processes).

Skin Protection:

Wear protective work clothing, full-coverage headgear, and safety shoes.

Environmental Exposure Controls:

Do not dispose of this product in drains, on the ground, or into any water bodies.

9. Physical and Chemical Properties

Appearance/Form: Filament

Color: Transparent, white, or light yellow (if containing TiO_2)

Odor: Slight characteristic odor

pH: Not applicable Melting Point: 100–300°C

Autoignition Temperature: 200–300°C

Flash Point: Not applicable

Flammability: Combustible in air

Specific Gravity: 1–1.3

Solubility:

Insoluble in water

Soluble in DMF (Dimethylformamide) and DMAC (Dimethylacetamide)

10. Stability and Reactivity

Storage Precautions: Keep away from sunlight, high temperatures, humidity, and ignition sources.

Stability: Stable under normal storage and handling conditions.

Materials to Avoid: Strong oxidizers (may cause oxidative degradation).

Hazardous Decomposition Products:

Thermal decomposition may release carbon monoxide (CO), nitrogen oxides (NO_x), and trace hydrogen cyanide (HCN).

11. Toxicological Information

Acute Toxicity: None

Eye Irritation: None

Skin Irritation:

Skin contact test $\leq 2\text{B}$ (mild) Sensitization: None

Mutagenicity: None

Carcinogenicity:

Titanium Dioxide (TiO_2): IARC Group 3 (Not classifiable as carcinogenic to humans).

DMAC: ACGIH A4 (Not suspected as a human carcinogen).

Note:

This product contains trace DMAC ($\leq 0.3\%$), which may volatilize during use.

Prolonged or excessive exposure may cause liver damage.

DMAC Toxicological Data:

Acute Toxicity: Oral (Rat) LD_{50} : 4300 mg/kg

Dermal (Rat) LD_{50} : 2640 mg/kg

Subcutaneous (Rat) LD_{50} : >2 g/kg

Inhalation (Mouse) LD_{50} : 7200 mg/kg

Eye Irritation: Draize Test (Rabbit): 100 mg (moderate irritation) Skin Irritation: Rabbit Skin Test: 10 mg/24H (mild irritation)

12. Ecological Information Ecotoxicity: None

Persistence/Biodegradability: Not biodegradable.

Bioaccumulation: None

13. Disposal Considerations

Dispose of in accordance with local, national, and international regulations.

Do not discard this product in: Sewers/drains On the ground Any water bodies (rivers, lakes, oceans, etc.)

14. Transport Information

International Maritime/Air Transport Requirements: Not regulated

UN Classification: Not applicable

UN Number: Not applicable

Precautions: Protect from moisture.

Avoid improper handling to prevent product damage.

15. Regulatory Information

Occupational Safety & Health (OSHA):

This product is not classified as hazardous per U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200).

U. S. Toxic Substances Control Act (TSCA):

Regarded as an "article" (exempt from chemical substance reporting).

16. Other Information

Medical Use Restrictions:

Do not use in medical applications involving:

Permanent, temporary, or transient implantation.

Contact with internal body fluids/tissues.

Elastic Fabric Composition:

PP Nonwoven Fabric: 65% (18g 3S*2)

Spandex Fiber: 30%

Eco-Friendly EVA Hot-Melt Adhesive: 5%