

## SECTION 1 - Identification of the substance / mixture and of the undertaken uses

### 1.1 PRODUCT IDENTIFIER

| Product Name | 3-Ply Point-Bonded Nonwoven Fabric |
|--------------|------------------------------------|
|--------------|------------------------------------|

### 1.2 RELEVANT IDENTIFIED USES

| Product Use | Filter materials (air filtration, liquid filtration), wiping cloths, insulation and as surface protection. |
|-------------|------------------------------------------------------------------------------------------------------------|
|-------------|------------------------------------------------------------------------------------------------------------|

## 2. HAZARDS IDENTIFICATION

**GHS Classification:** Not classified as hazardous according to GHS criteria.

**Hazard Statements:** None.

**Precautionary Statements:**

- P264: Wash hands thoroughly after handling.
- P280: Wear appropriate protective equipment if handling large quantities or during processing.
- P501: Dispose of contents/container in accordance with local, regional, national and international regulations.

**Appearance and Odor:** Solid, Grey color, No odor.

## 3. COMPOSITION INFORMATION ON INGREDIENTS

### FORMULA A:

| Chemical Name      | CAS No.   | Percentage (%) |
|--------------------|-----------|----------------|
| Polypropylene (PP) | 9003-07-0 | 83.3           |
| Polyethylene (PE)  | 9002-88-4 | 16.7           |

### FORMULA B:

| Chemical Name      | CAS No.   | Percentage (%) |
|--------------------|-----------|----------------|
| Polypropylene (PP) | 9003-07-0 | 89.3           |
| Polyethylene (PE)  | 9002-88-4 | 10.7           |



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ISO 11014-2009

3-PLY POINT BONDED-FABRIC SURFACE PROTECTION

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#### 4. FIRST AID MEASURES

**Inhalation:** If accidental inhalation of dust occurs (during cutting/processing), move to fresh air. If respiratory irritation persists, seek medical attention.

**Eye Contact:** Rinse eyes thoroughly with plenty of water for at least 15 minutes. If irritation occurs, consult a physician.

**Skin Contact:** No known skin irritation. In case of prolonged contact, wash skin with soap and water. If irritation develops, seek medical advice.

**Ingestion:** Not intended for ingestion. If ingested accidentally, do not induce vomiting. Seek medical attention immediately and provide this SDS.

#### 5. FIRE FIGHTING MEASURES

**Flammability:** The product is combustible when exposed to high temperatures or open flames.

**Hazardous Combustion Products:** Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), and small amounts of volatile organic compounds (VOCs) when burned.

**Extinguishing Media:** Use water spray, dry chemical powder, foam, or carbon dioxide (CO<sub>2</sub>) extinguishers.

**Fire Fighting Precautions:** Firefighters should wear full protective equipment (including self-contained breathing apparatus) to avoid inhalation of combustion products. Cool adjacent containers with water spray to prevent overheating.

#### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Wear gloves and a dust mask if handling spilled material (especially in powder form).

**Environmental Precautions:** Prevent the product from entering sewers, rivers, or other water bodies.

**Cleanup Methods:** Sweep or collect spilled material into a clean, dry container for disposal. For large spills, use appropriate equipment to avoid dust generation.

#### 7. HANDLING AND STORAGE

**Handling:** Avoid prolonged exposure to direct sunlight and high temperatures (above 140°F (60°C)). During processing, ensure good ventilation to prevent dust accumulation.

**Storage:** Store in a cool, dry, well-ventilated warehouse. Keep away from ignition sources, heat, and incompatible materials. The recommended storage temperature is 0-86°F (0-30°C). Stack neatly to prevent collapse, with a maximum stack height of 2 meters.

**Shelf Life:** 24 months from the date of production when stored under proper conditions.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Limits:** No occupational exposure limits specified for the product components.

**Engineering Controls:** Provide local exhaust ventilation during cutting, grinding, or other processes that generate dust.



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### Personal Protective Equipment (PPE):

- Respiratory Protection: Wear a dust mask (N95 or equivalent) when dust is generated.
- Eye Protection: Wear safety goggles during processing to prevent debris from entering eyes.
- Hand Protection: Wear nitrile or latex gloves for routine handling.
- Body Protection: Wear work clothes to avoid direct contact with large quantities of the product.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

| PROPERTY            | VALUE                                                                         |
|---------------------|-------------------------------------------------------------------------------|
| Appearance          | Solid, grey, 3-ply bonded nonwoven structure                                  |
| Odor                | No odor                                                                       |
| Density             | 0.90-0.95 g/cm <sup>3</sup>                                                   |
| Melting Point       | 320-338°F (160-170°C) (PP component);<br>230-248°F (110-120°C) (PE component) |
| Boiling Point       | Decomposes before boiling                                                     |
| Solubility in Water | Insoluble                                                                     |
| Flammability        | Combustible (Flash Point: >392°F (200°C))                                     |
| Tensile Strength    | ≥ 15 N/5cm (MD); ≥ 10 N/5cm (CD) (typical value)                              |

### 10. STABILITY AND REACTIVITY

**Stability:** The product is stable under normal handling and storage conditions.

**Conditions to Avoid:** High temperatures (above 140°F (60°C)), open flames, direct sunlight, and strong oxidizing agents.

**Incompatible Materials:** Strong oxidizers, acids, and bases.

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, and volatile organic compounds when heated above decomposition temperature (≥482°F (250°C)).

**Hazardous Polymerization:** Will not occur.



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#### 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity:** The product is practically non-toxic. LD50 (oral, rat) > 5000 mg/kg for PP and PE components.

**Skin Irritation:** No irritating effects on skin (in accordance with OECD 404 test).

**Eye Irritation:** No irritating effects on eyes (in accordance with OECD 405 test).

**Inhalation Toxicity:** Inhalation of dust may cause mild respiratory irritation, but no long-term adverse effects.

**Sensitization:** No skin sensitization potential (in accordance with OECD 406 test).

**Carcinogenicity:** PP and PE are not classified as carcinogens by IARC, EPA, or OSHA.

#### 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** The product is not toxic to aquatic organisms (fish, algae, invertebrates). LC50 (fish, 96h) > 1000 mg/L.

**Persistence and Degradability:** The product is non-biodegradable in the environment but can be recycled or incinerated with energy recovery.

**Bioaccumulation Potential:** No bioaccumulation potential.

**Environmental Fate:** If improperly disposed of, it may cause visual pollution. Do not litter; dispose of in accordance with local regulations.

#### 13. DISPOSAL CONSIDERATIONS

**Waste Classification:** Classified as non-hazardous solid waste.

##### Disposal Methods:

- **Recycle:** The product can be recycled as plastic waste for reprocessing into low-grade plastic products.
- **Incineration:** Dispose of via authorized incineration facilities with energy recovery. Ensure compliance with local emission standards.
- **Landfill:** Dispose of in authorized landfills if recycling or incineration is not feasible. Do not dispose of in the environment.

**Container Disposal:** Clean and recycle containers or dispose of as non-hazardous waste.

#### 14. TRANSPORT INFORMATION

**UN Number:** Not regulated for transport.

**UN Proper Shipping Name:** Not applicable.

**Hazard Class:** None.

**Packing Group:** None.

**Transport Restrictions:** Avoid transport with hazardous materials (oxidizers, acids, bases). Protect from sunlight, rain, and high temperatures during transport. Do not stack beyond the specified height to prevent damage.

**Mode of Transport:** Suitable for sea, land, and air transport (complying with respective transport regulations).



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#### 15. REGULATORY INFORMATION

##### International Regulations:

- Complies with REACH Regulation (EC) No 1907/2006 (all components are registered or exempt).
- Complies with RoHS Directive 2011/65/EU (no restricted substances exceeding limits).
- Complies with FDA 21 CFR Part 177 (suitable for food contact applications if processed accordingly).

**National Regulations:** Complies with GB/T 19001-2016 quality management system and relevant Chinese nonwoven fabric standards (GB/T 24218.1-2009).

**Labeling Requirements:** Product label shall include product name, brand, manufacturer information, composition, net weight, production date, shelf life, and storage precautions.

#### 16. OTHER INFORMATION

**Product Uses:** The 3-ply point-bonded nonwoven fabric is widely used in the following fields:

- Surface Protection: floors, walls, cabinetry, etc.
- Packaging Materials: Food packaging (e.g., bread bags, fruit wraps), protective packaging for electronic products, and gift wrapping.
- Industrial Uses: Filter materials (air filtration, liquid filtration), wiping cloths, and insulation materials.
- Medical Auxiliary: Disposable bed sheets, pillowcases, medical gowns (inner layer), and wound dressing covers (non-direct contact).
- Daily Necessities: Disposable towels, facial masks, and shopping bag liners.
- Hygiene Products: Inner layer of disposable masks, surface layer of sanitary napkins, baby diapers, and adult incontinence products.

**DISCLAIMER:** This SDS is prepared based on the current information and test data available. It is intended to provide safe handling, storage, and use information for the product. The user shall ensure that this SDS is distributed to all relevant personnel and updated as necessary. The manufacturer shall not be liable for any damages caused by improper use, storage, or handling of the product.