

Material Safety Data Sheet

1. Product and company designation

1.1 Product

**Nonwoven made of Viscose-
Polyester- and
Polypropylene-Fibers**

1.2 Company

FLITZ INTERNATIONAL
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2. Composition and Details of constituents

2.1 Composition

Viscose-Fiber, natural fiber CV	Polyester-Fiber, man-made fiber PES	Polypropylene-Fiber, man-made fiber PP	Additives, e.g. Titanium Dioxide, dyestuff	Finish agent
* %	* %	* %	< 2 %	< 1 %
9004-34-6	25 038-59-9	9003-07-0	13463-67-7	---

* Actual Composition see Technical Data Sheet or Specification!

2.2 Finish

Fiber may contain approximately 2 % Titanium Dioxide/dyestuffs and up to 1 % of textile processing aids (finish agent).

3. Potential hazards

- 3.1.1 The nonwoven has not been classified as a hazardous substance in accordance with EC regulations. To date, proper use of this fiber product has not been associated with a specific hazard or any detrimental effects on health.
- 3.1.2 The product is burnable. Keep away from ignition sources.

4. First aid measures

- 4.1.1 Inhalation hazards of this product are negligible if existing threshold limit values are kept. Inhalation of dust and finish decomposition products should be avoided by suction hood and fresh air ventilation.

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5. Measures in case of fire

5.1.1	Burning behavior nonwoven:	Burnable	
	Melting range:	CV content	Does not melt or soften
		PES content	250 – 260 °C
		PP content	150 – 170 °C
	Auto-Ignition temperature:	CV content	400 – 460 °C
		PES content	480 – 515 °C
		PP content	~ 330 °C
	Extraneous-Ignition temperature:	CV content	~ 300 °C
		PES content	~ 390 °C
		PP content	Data deficient
	Thermal decomposition:	CV content	> 175 °C
		PES content	> 300 °C
		PP content	> 300 °C
	Dangerous decomposition products:	Carbon Monoxide, Carbon Dioxide, several organic decomposition products.	
5.1.2	Extinguishing agents	All standard extinguishing agents	
		Unsuitable: Don't use water, if fire is caused by an electrical problem.	
		Use self-contained breathing apparatus, especially in closed rooms.	

6. Handling and storage

- All rolls of nonwoven have to be stored in accordance to the local regulations and laws. Store dry and avoid too long terms of sunlight.
- Be careful when roll packing is removed! Use suitable tools and personal protection.
- Avoid fiber fly, dust and decomposition products by ventilation and aeration. Regular cleaning of machinery, working areas and clothing recommended. Keep away from ignition sources and flammable substances. Be aware of consequences caused by electrical charge. Do not store in the neighborhood of strong oxidizing materials.

7. Limits to exposure and personal safety measures

There are no specific exposure limits for workplace.

Respiratory precaution: None

Protection of hands: In case of high allergic sensitivity, contact over longer periods should be avoided.

Eye protection: No special measures

Body protection: Safety footwear is recommended during transport rolls

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Comply with national occupational threshold values for dust. According to TRGS 900 in Germany there are two values:

- 3 mg/m³ for fine dust (may penetrate alveolus)
- 10 mg/m³ for coarse dust (respirable dust)

8. Disposal Waste may be disposed at a disposal site or burned in suitable incinerators in accordance with relevant regulations.
9. Transport - Not hazardous/dangerous
 - No identification required

10. Physical and chemical properties

Form	Nonwoven		
Odor	Odorless		
Composition/Content	CV Viscose-Fiber	PES Polyester-Fiber	PP Polypropylene-Fiber
Melting range	Natural fiber, does not melt or soften	250-260 °C	150 – 170 °C
Thermal decomposition	> 175 °C	> 300 °C	> 300 °C
Extraneous-Ignition temperature	~ 300 °C	~ 390 °C	Date deficient
Auto-Ignition temperature	400-460 °C	480-515 °C	~ 330 °C
Solubility in water	Insoluble	Insoluble	Insoluble
Residual solvents	None	None	None
Stability and reactivity	1)	Stable	Stable

- 1) Stable at 115 °C up to one hour. At higher temperatures or when longer exposed fiber will turn yellowish. Long time exposure to higher temperatures will reduce tenacity. Long lasting exposure to light will cause some discoloration and decrease of tenacity.
 Caustic soda of 8-10 % concentration will attack fibers at room temperature.
 Fibers will be dissolved by diluted hot and by concentrated acids (similar to cotton).

11. Toxicological-Ecological Information

- The nonwoven is non-toxic. There are no toxic, very toxic, carcinogenic, mutagenic or reprotoxic substances. Please refer to the manufacturer before using the product for application in food industry, medical or surgical purposes.
- The product is ecological uncritical and not hazardous to water.
- Components of the textile processing aid (finish) may vaporize or decompose at temperatures above 130 °C.

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- If subsequent processing involves the use of water, the waste water should be given the appropriate treatment in a purifying plant, in line with local regulations.
- If recycling is not possible, the nonwoven can be disposed of in a suitable refuse installation or incinerated subject to local regulations.
- The content of PES and PP (made-made fibers) is non-biodegradable; the content of Viscose is completely biodegradable.