

# VISCOSE FIBER

AUGUST 2007

## 1. Product designation

- 1.1 Trade Name: **Lenzing Viscose**
- 1.2 Use: Lenzing Viscose is intended for various textile and nonwoven end-uses.
- 1.3 Manufacturer / Supplier: **Lenzing Aktiengesellschaft**, A 4860 Lenzing, Austria  
Phone: +43 (0) 7672 701-2343  
Facsimile: +43 (0) 7672 918-2343
- Production Sites: **Lenzing Aktiengesellschaft**, A-4860 Lenzing, Austria  
**P.T. South Pacific Viscose**, 44101 West Java, Indonesia  
**Lenzing (Nanjing) Fibers Co., Ltd.**, Nanjing 211511, Jiangsu, P.R. China
- 1.4 Emergency telephone no: +43 (0) 7672 701-2500

## 2. Composition

Generic name: Viscose (Cellulosic man-made fiber by Viscose Production Technology)  
Formula:  $(C_6H_{10}O_5)_n$  (regenerated cellulose)  
CAS-Number: 68442-85-3  
EINECS-Number: 270-493-7

Fiber may contain approximately 1% Titanium Dioxide (CAS 13463-67-7, EINECS 236-675-5).  
Fiber may contain up to 1% of finish.

## 3. Possible danger

Combustible (like cotton)

## 4. First aid measures

Flush eyes with water for at least 15 minutes.  
Consult physician in case of burns, ingestion or inhalation of smoke.

Note to physicians: Fly generated during processing may aggravate pre-existing respiratory conditions.

## 5. Fire fighting measures

Extinguishing agents: Water, foam or carbon dioxide extinguisher  
Unsuitable extinguishers: None  
Special danger: None

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## 6. Measures if unintentionally released

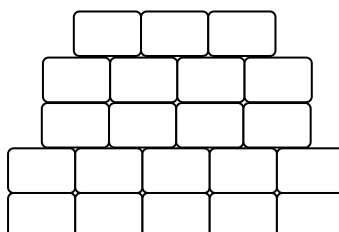
No personal precaution necessary.  
 No ecological precaution necessary.

## 7. Storage and handling

Handling: 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 inflammable substances. Be aware of consequences caused by electrical charge. **Be careful when bale-straps are removed!** Use suitable tools and personal protection.

Storage: Do not store in neighborhood of strong oxidizing materials and direct sunlight. **Be careful when storing fiber bales in stacks.** Bale stacks may become unstable and care must be taken to incorporate best safety practices regarding the stacking/storage of bales.

Example:



Stable fiber bale stacking

## 8. Exposure limits and personal protection

No occupational exposure limits.

Personal protective equipment:

Respiratory precaution: None

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

Eye protection: Safety goggles are recommended in case of fiber fly and when bale-straps are removed.

Body protection: Safety footwear is recommended during transport of bales.

General precaution and measures of hygiene: See § 7

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## 9. Physical and chemical properties

Appearance:	Form:	Staple fibers
	Color:	Raw white or spun dyed
	Odor:	Practically odorless
Safety relevant data:	Melting point:	Does not melt or soften.
	Boiling point:	Not volatile
	Thermal decomposition:	> 175°C
	Flash point:	Not applicable
	Ignition temperature:	460°C (in acc. to DIN 51794)
	LOI:	19 - 20%
Several data:	Heat of combustion:	ca. 17kJ/g (ca. 4kcal/g)
	Density:	1,5 g/cm <sup>3</sup> (20°C)
	Solubility:	Insoluble in water and common organic solvents.

## 10. Stability and reactivity

### Stability:

Behavior similar to cotton.

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.

### Substances to avoid:

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).

### Dangerous decomposition products:

Depending on temperature and supply of air: carbon monoxide, carbon dioxide, several organic decomposition products.

## 11. Toxicological information

Viscose fibers are non-toxic. Please refer to the manufacturer before using the product for special applications (such as food industry, hygiene, medical and surgical purposes).

Viscose fibers may contain up to 1% of finish.

## 12. Ecological information

Ecologically safe, biodegradable.

## 13. Information on disposal

Waste may be dumped at a disposal site or burned in suitable incinerators in accordance with relevant regulations.

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## 14. Transport information

Not a hazardous material.

## 15. Regulations

No identification required.

## 16. Other information

Fiber may contain up to 1% of finish. Finish may be, if necessary, removed by washing with water. Information provided by the manufacturer has to be observed during processing and application. In case of special applications contact producer for detailed information.

The specifications of this data sheet are based - as far as format and order of the data are concerned - on the Directive 91/155 EEC. The data sheet is designed to provide essential physical, safety, toxicological and ecological data and recommendations for handling for known textiles and technical uses, storage and transportation. It is hoped that by providing industrial users of fibers with relevant information, both human life and the environment will be protected. This data sheet is not intended for private end-users of the product.

The information contained herein corresponds with the supplier's level of knowledge at the time of issue.

It does not constitute any contractual guarantee in respect of the product properties.