

Material Safety Data Sheet

Date : Jun 22 2015

Product : Spunlace Nonwoven RC04038

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1. Manufacturer's Name

2. Potential hazards

This product 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. Fiber dust and fiber fly may represent a fire hazard at sufficient concentrations in the presence of ignition sources.

3. Composition / Information about ingredients

Generic name: Lyocell (Cellulosic man-made fiber by Lyocell Production Technology)

Formula: $(C_6H_{10}O_5)_n$ (Cellulose)

CAS-Number: 9004-34-6

EINECS-Number: 232-674-9

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

Fiber may contain up to 1% of finish.

Contains water in balance with the ambient air.

4. First aid measures

4.1 Inhalation

Inhalation hazards of this product are negligible if existing threshold limit values are kept.

Inhalation of fiber fly, dust and finish decomposition products should be avoided by hood suction and fresh air ventilation.

In case of coughing or other symptoms the person should seek fresh air and – if necessary – see a physician.

4.2 Eye contact

The eyes should be washed immediately with plenty of water. If irritation continues, consult a physician.

4.3 Skin contact

Wash with soap and water. If irritation occurs consult a physician.

4.4 Ingestion:

Ingestion is not dangerous. If there is any irritation, consult a physician.

5. Measures in case of fire

Extinguishing agents:

All standard extinguishing agents.

Unsuitable extinguishers:

Don't use water, if fire is caused by an electrical problem.

Special exposure to the material, combustion products or exposure to hazardous gas emissions Carbon dioxide (CO) is a hazardous combustion gas.

Special protective equipment:

Use self-contained breathing apparatus (especially in closed rooms).

Unusual fire and explosion hazards:

Fiber dust and fly may represent a fire hazard at sufficient concentrations. Remove ignition sources.

Beware of electrostatic charges.

6. Measures in case of spills

No personal precaution necessary.

No ecological precaution necessary.

7. Storage and handling

7.1 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 flammable substances.

Be aware of consequences caused by electrical charge.

Be careful when bale-straps are removed! Use suitable tools and personal protection.

7.2 Storage: Do not store in the 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.

8. Limits to exposure and personal safety measures

8.1 Exposure limits

Specific limits for workplace: None

8.2 Exposure limits and monitoring

8.2.1 Exposure limits and monitoring for the workplace

Technical measures:

Avoid accumulation of and contact with fiber fly and dust through ventilation and aeration.

Individual safety measures:

No special measures required in handling of the product if the general precautions and hygiene measures are observed (see 7).

- a) Respiratory precaution: None
- b) Protection of hands: In case of high allergic sensitivity, contact over longer periods should be avoided.
- c) Eye protection: Safety goggles are recommended in case of fiber fly and when bale-straps are removed.
- d) Body protection: Safety footwear is recommended during transport of bales.

8.2.2 Limitation and observation of the environmental exposure

Exhausted fiber fly, dust and finish decomposition products should be contained efficiently by adequate filter systems.

9. Physical and chemical properties

- 9.1 Appearance: Form: Staple fibers
Color: raw whit
Odor: practically odorless

- 9.2 Safety relevant data and important details for health and environment:
Boiling Point: not volatile
Flash point: not applicable
Ignition temperature: 460°C (in acc. To DIN 51794)
Heat of combustion: ca. 17kJ/g (ca. 4kcal/g)
Density : 1.5 g/cm³ (20°C)
Solubility: Insoluble in water and common organic

solvents.

- Thermal decomposition: > 175°C
LOI: 19 - 20%

- 9.3 Additional data: Melting point: does not melt or soften

10. Stability and reactivity

Behavior similar to cotton.

- 10.1 Conditions to avoid:
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.
- 10.2 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).

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10.3 Dangerous decomposition products:

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

11. Toxicological information

Lyocell 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).

12. Ecological information

Ecologically safe, completely biodegradable.

13. Disposal information

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

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 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.

RC04038 is a manufactured article and is not subject to European Regulations (EC) No. 1907/2006.

As a service for our customers, this data sheet has been created in accordance to EC-Regulations (EC) 453/2010 of 2010, May 20th.