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0. Introduction

This document provides a Material Safety Data Sheet (MSDS) for nonwovens on a voluntary basis according to EDANA recommendations (Guidelines and Instructions relating to MSDS for nonwovens MSDS/RV7/002b). The MSDS is a means of transferring essential hazard information (including information on transport, handling, storage and emergency actions) from the supplier of a nonwoven product to the recipient of the product. As nonwovens are generally not hazardous, MSDS is not legally requested but must be considered as information. It is based on the EC recommendation for MSDS (Commission directive 93/112/EC of 10 Dec. 93).

The information contained in this Material Safety Data Sheet has been developed by the Company on the express request of its customer and to the best of its knowledge. Therefore, the Company does not assume any liability with respect to the correctness and/or completeness of the information provided by this Material Safety Data Sheet. The customer in particular shall not be released from his duty to check all safety relevant properties of the delivered nonwovens and to refer to the official texts for full information on the local obligations.

1. Identification of the product and the company

1.1. Product Identification

Product name : **T 1777**

Description : *nonwoven fabric*

1.2. Company identification

- Company / Plant where information on the product safety is available :

Name : **Freudenberg Vliesstoffe KG**

Address : **D-69465 Weinheim**

Phone & Fax numbers : **+49 (0) 6201 80-0** **+49 (0) 6201 88-0**

- Department responsible for the product safety :

Department : **Neuenburg Plant, TN1, Prod.Dev. Wetlaid-Nonwovens**

Address: **D-79389 Neuenburg, Germany**

Phone & Fax numbers : **+49 (0) 7631 71-293** **+49 (0) 7631 73607**

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2. Composition

- Identification of the type of nonwoven product :

Nonwoven : *wetlaid fiber web, chemically bonded*

Nature of the fiber(s) : *C glass*

Web surface treatment :
(concentration above 1%)

Binders : *acrylic binder*

Additives : *(< 0,5 % additives within the fiber polymer)*

Other major components :

- Chemicals (in relevant concentration) that are in the list of dangerous substances

None

3. Hazards identification

No hazardous product under normal conditions

*Accidental thermal decomposition or melting state can present hazards
(e.g. carbon monoxide or other toxic fume gases)*

Fiber glass is a mechanical irritant. Inhalation of dust and fibers may cause temporary irritation of the mouth, nose and throat. Skin contact with dust and fibers may produce itching and temporary irritation. Eye contact with dust and fibers may produce temporary mechanical irritation. Ingestion may produce temporary mechanical irritation of the digestive tract.

There are no other known effects associated with long term exposure to this product.

4. First-aid measures

- | | |
|-------------------|---|
| 4.1. Inhalation | <i>Move person to fresh air. Seek medical attention if irritation persists.</i> |
| 4.2. Skin contact | <i>Wash with mild soap and running water. Use a washcloth to help remove fibers. To avoid further irritation, do not rub or scratch irritated areas. Rubbing or scratching may force fibers into skin. Seek medical attention if irritation persists.</i> |
| 4.3. Eyes contact | <i>Flush eyes with running water for at least 15 minutes. Seek medical attention if irritation persists.</i> |
| 4.4. Ingestion | <i>Ingestion of this material is unlikely. If it does occur, observe individual for several days ensure that intestinal blockage does not occur</i> |

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5. Fire-fighting measures

- 5.1. Suitable extinguishing media : *All extinguishing media are suitable*
- 5.2. Extinguishing media not to be used : *None*
- 5.3. Special exposure hazard : *In the event of fire, mainly carbon dioxide, carbon monoxide and small amounts of other undetermined decomposition products may be generated*
For flammable and toxic fumes as well as skin contact with molten materials see § 10
- 5.4. Special protective clothing for fire-fighter : *In event of fire, wear self-contained breathing apparatus*

6. Accidental release measures

Not applicable

7. Handling and storage

Avoid dust formation

8. Exposure controls / personal protection

Avoid dust creation and dust inspiration

- Respiratory protection : *Breath protection is recommended when dust is created*
- Hand protection : *When handling the fabric, wearing of safety gloves is recommended*
- Eye protection : *Wearing of eye protection is recommended if a person is very sensitive to eye irritation*
- Skin protection : *See hand protection*

9. Physical and chemical properties

- Appearance (the colour of the product as supplied): *white*
- Odour (if odour is perceptible give a brief description of it) : *None*
- pH value : *not applicable*
- Melting point/melting range : *< 1000°C (fibers)*
- Flash point: *not applicable*
- Flammability : *not easily flammable*
- Autoflammability : *> 350°C (binder)*
- Explosive properties : *not applicable*
- Oxidizing properties : *not applicable*
- Vapour pressure : *not applicable*
- Relative density : *approx. 0,1g/cm³*
- Solubility : - water solubility : *(amount of water solubility not tested)*
 - styrene : *binder is soluble in styrene*

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10. Stability and reactivity

Conditions to avoid :

Under thermal decomposition flammable and toxic fumes can be generated.

Above 300°C may be released: toxic and flammable gases, carbon monoxide. The generation of cleavage and oxidation products is subject to fire conditions. Non-burned residues and contaminated water after fire fighting should be disposed of in compliance with official regulations

Molten material should not be allowed to be in contact with the skin to which it can adhere and can cause burns.

11. Toxicological information

No toxic reaction known under normal conditions.

Under decomposition conditions; toxic fumes and contaminated water, see pt. 10.

12. Ecological information

For transportation, storage, normal use, no toxicological effect known.

Possible water pollution, if components are washed out.

13. Disposal considerations

As non hazardous solid waste, depending on local registration, nonwovens can be disposed of through :

landfill

Disposal code no. (Germany): 58121 EC code no. 0402 03

14. Transport information

No specific request

15. Regulatory information

None

16. Other information

None