

Technical Safety Information Sheet for Nonwovens on a voluntary basis (TSIS)

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according to EC 1907/2006

for product(s) :

T 1777

Date of issue : 19.02.2008		Date of revision : 19.02.2008	
1. Product and company identification			
Product	:	T 1777 Surfacing Veil	
Company	:	Freudenberg Vliesstoffe KG (D-79389 Neuenburg)	
Telephone / Telefax	:	+49 7631 71-0 / +49 7631 73607	
Informing department	:	Produktentwicklung Naßvliesstoffe	
Telephone / Telefax	:	+49 7631 71-293 / +49 7631 7929054	
E-mail address	:	holger.schilling@freudenberg-nw.com	
2. Possible hazards			
		No hazardous product under normal conditions.	
Special hazards information	:	Accidental thermal decomposition and/or (partially) melting state can present hazards, see pt. 10.	
3. Composition / information on ingredients			
<p><i>This document provides safety-related information created on a voluntary basis. As nonwovens are generally not hazardous materials, a Material Safety Data Sheet (MSDS) is not legally requested or obligatory for such products. The TSIS is an alternative means of transferring essential hazard information (including information on handling, storage, transport and actions in case of emergency) from the supplier of the nonwoven product to the recipient. The information content is based on the EC regulation for MSDS (EC 1907/2006).</i></p> <p><i>The information of this TSIS has been developed by the supplier on express request of its customer and to the best of today's knowledge. The supplier does not assume any liability with respect to the correctness and / or completeness of this information. The TSIS does not release the customer from a possible duty to check all safety relevant properties of the nonwoven referring to official information on the local obligations.</i></p>			
Chemical characterization (product)			
Description	:	Wet-laid nonwoven, chemically bonded	
Main components	:	Fibre type(s) : C-glass Binder type(s) : Polyacrylate	
Side components, additives	:	Fibre additives (e.g. spin finishes, defustrants, etc.) Process auxiliaries (e.g. dispersing agents, defoamer, etc.)	
Finishings	:	None	
Further information	:	None	
4. First-aid measures			
		Under normal conditions ...	
After inhalation	:	... not applicable	
After skin contact	:	... no specific measures to be taken	
After eye contact	:	... no specific measures to be taken	
After ingestion	:	... no specific measures to be taken	
Information for the doctor	:	... no specific measures to be taken	
5. Fire-fighting measures			
Suitable extinguishing media	:	All common extinguishing media (e.g. water, CO2, sand)	
Unsuitable extinguishing media	:	None	
Special hazards due to combustion products or emerging gases	:	<p>Ref. to formation of flammable and toxic combustion products, as well as skin contact with molten material, see pt. 10.</p> <p>Ref. to disposal of unburned residues and contaminated extinguishing media, see pt. 12.</p>	
Special protective equipment	:	In event of fire it is advisable to wear a self-contained breathing apparatus.	
Further information	:	None	

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6. Accidental release measures

Personal precautions	: No specific measures to be taken
Environmental precautions	: No specific measures to be taken
Procedure for cleaning / absorption	: No specific measures to be taken

7. Handling and storage

Handling	: Ref. to exposure controls and personal protection in case of mechanical-thermal treatment / processing, see pt. 8, otherwise no specific measures to be taken.
Protection against fire and explosion	: No specific measures to be taken
Storage	: Storage under cool, dry and light-protected conditions is recommended (storage temperature max. 40°C, avoidance of high relative air humidity, formation of condensed water and direct solar radiation).

8. Exposure controls and personal protection

Technical protective measures	: During mechanical-thermal processing (e.g. grinding, cutting, laminating), irritant (fibre) dusts and traces of irritant volatile components may possibly be released. In these cases vacuum equipment should be present or at least proper ventilation should be implemented.
Components with workplace-related exposure limits (to be monitored)	: None
Personal protective equipment	: If (fibre) dusts are released in higher extent during mechanical-thermal processing, ...
Respiratory protection	: ... the use of a respirator is recommended, ...
Hand protection	: ... wearing of protective gloves or at least the application of a barrier cream is recommended, ...
Eye protection	: ... wearing of safety glasses is recommended, ...
Skin protection	: ... avoidance of intense skin contact is recommended, otherwise no specific measures to be taken.
General safety and hygiene measures	
Measures	: Precautions similar to handling of chemicals are recommended.

9. Physical and chemical properties

Colour	: White
Odour	: Odourless
Boiling point resp. range (°C)	: Not applicable
Melting point resp. range (°C)	: Decomposition / Dissimilation (at least partially) above ca. 250°C
Flash point / Ignition temperature (°C)	: Not easily inflammable / Not tested
Autoignition	: Not tested
Explosion hazard / Explosion limits	: Not liable to explode / Not applicable
Vapour pressure (mbar)	: Not applicable
Density (g/cm³)	: ca. 0,1
Solubility in water	: Not tested (Product contains traces of water-soluble ingredients)
Solubility in other solvents	: Binder system is "soluble" / "softening" in styrene (resp. in common styrene containing resins for manufacturing of FRP parts)
pH value	: Not applicable
Viscosity	: Not applicable
Further information	: None

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10. Stability and reactivity Conditions to avoid Substances to avoid Hazardous decomposition products Further information	: Product may (at least partially) melt and / or decompose at temperatures above ca. 250°C. Decomposition is enhanced resp. accelerated in case of contact with below mentioned substances to avoid. : Strong alkalis, strong (oxidizing) acids : Under thermal-chemical decomposition resp. in case of fire flammable and toxic fumes may be generated (as e.g. carbon monoxide (CO)). Type and amount of decomposition and oxidation products are subjected to specific (fire) conditions. : (Partially) molten product must not come in contact with the skin, because it may stick and cause strong burns.
11. Toxicological information Acute toxicity Irritation effects Sensitization Subacute to chronic toxicity Carcinogenicity, mutagenicity, teratogenicity Experience from practise Further information	Under normal conditions ... : ... not applicable / not known : ... not applicable / not known : ... not applicable / not known : ... not applicable / not known : ... not applicable / not known : None : Under thermal-chemical decomposition resp. in case of fire toxic substances may be generated, see pl. 10.
12. Ecological information Biodegradability Ecotoxicity Further ecological information	: Not biodegradable : No ecotoxic effects are to be expected for regular transportation, storage and duly use. : In event of fire, unburned residues as well as contaminated extinguishing media must be disposed of in compliance with existing regulations.
13. Disposal considerations General information Disposal code no. / AVV-Code	: Product can be disposed off as non hazardous solid waste in compliance with existing regulations (e.g. by incineration or landfill). : 040222
14. Transport information	Product is under normal conditions no hazardous good according to existing transport regulations.
15. Regulatory information Labelling according to EC regulations National regulations	: Product needs not be labelled according to existing EC regulations. : Product is not subjected to special national regulations for duly use (e.g. German chemicals act or direction on hazardous materials).
16. Other information	None

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All information mentioned above is based on the present state of our knowledge and experience. The TSIS describes the product with regard to general safety requirements. The information does not guarantee certain properties. Recipients of the product must take their own responsibility for observing existing (local) laws and regulations.

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