

Technical Safety Information Sheet (TSIS) on a voluntary basis according to EC 1907/2006

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1. Product- and company identification			
Product name	:	T 1790 C	
Company	:	Freudenberg Performance Materials SE & Co. KG D-69465 Weinheim	
Telephone	:	++49 / 7631 / 71 - 0	
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Information department	:	Product development	
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2. Possible hazards		No hazardous product under normal conditions.	
Special hazard reference		Accidental thermal decomposition or melting state may cause hazards.	
3. Composition / information on ingredients			
This document provides Material Safety Information (TSIS) for nonwovens on a voluntary basis. The TSIS is a means of forwarding essential hazard information (including information on transport, handling, storage and emergency actions) from the supplier of a nonwoven product to the recipient of this product. As nonwovens are generally not hazardous, TSIS is not legally requested but must be considered as information. It is based on the EC recommendation for MSDS (EC 1907/2006). <i>The information contained in this Material Safety Information Sheet has been compiled to the best of our knowledge upon the explicit request of the customer. Therefore, the manufacturer does not assume any liability with respect to the correctness and/or completeness of the information provided by this Material Safety Information Sheet. The customer in particular shall not be released from his duty to check all safety-relevant properties of the delivered nonwovens, and to comply with the local official regulations.</i>			
Chemical nature (product)			
Description	:	Wetlaid nonwoven, chemically bonded Fibre type(s): C-Glass Binder type(s): Polyacrylate	
May contain	:	Fibre additives (e.g. spin finishes, delustrants, etc.) Process auxiliaries (e.g. dispersing agents, defoamer, etc.)	
Further information	:	None	
4. First-aid measures			
General advice	:	Under normal condition ...	
Inhalation	:	no specific measures to be taken	
Skin contact	:	no specific measures to be taken	
Eye contact	:	no specific measures to be taken	
Ingestion	:	no specific measures to be taken	
Information for the doctor	:		
5. Fire fighting measures			
Suitable extinguishing media	:	All common extinguishing media (e.g. water, CO2, sand)	
Unsuitable extinguishing media	:	None	
Exposure hazards	:	Ref. to formation of flammable and toxic combustion products, as well as skin contact with molten material, see pt. 10. Ref. to disposal of unburned residues and contaminated extinguishing media, see pt. 12.	
Protective equipment for fire fighters	:	In event of fire it is advisable to wear a self-contained breathing apparatus.	
Further information	:	For flammable and toxic fumes as well as skin contact with molten	

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materials see § 10.	
6. Accidental release measures	Not applicable
Personal precautions	: No specific measures to be taken
Environmental precautions	: No specific measures to be taken
Methods for cleaning	: No specific measures to be taken
Further information	: No specific measures to be taken
7. Handling and storage	Normal requirements
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 : 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. Expose controls and personal protection	No specific measures
Technical protective measure	: 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.
Exposure control limits	: 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	
Appearance	: Roll good or cut sheet
Colour	: White
Odour	: Odourless
Changes in physical state	
Boiling point/Boiling range (°C)	: Not applicable
Melting point (°C)	: Decomposition / Dissimilation (at least partially) above ca. 200°C
Freezing temperature (°C)	: Not applicable
Flash point (°C)	: Not easily inflammable
Ignition temperature (°C)	: Not tested
Auto ignition	: Not tested
Explosion hazard	: Not liable to explode
Explosion limits (Vol.-%)	: Not applicable
Vapour pressure (mbar)	: Not applicable
Density (g/cm ³)	: ca. 0,1
Bulk density (kg/m ³)	: Not applicable

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Solubility in water	: Not tested (Product contains traces of water-soluble ingredients)
Solubility in other solvents	: Binder system is soluble in styrene
pH-value	: Not applicable
Viscosity	: Not applicable
Additional information	: None
10. Stability and reactivity	
Conditions to avoid	: Under thermal decomposition flammable and toxic fumes can be generated. Product may (at least partially) melt and / or decompose at temperatures above ca. 200°C. Decomposition is enhanced resp. accelerated in case of contact with below mentioned substances to avoid.
Substances to avoid	: Strong alkalis, strong (oxidizing) acids.
Hazardous decomposition products	: Above 300°C toxic and flammable gases like carbon monoxide can be released. The generation of decomposition and oxidation products is subject to fire conditions. Non burned residues and water contaminated after fire fighting should be disposed of in compliance with official regulations.
Additional information	: Molten material should not be contact by skin as it may adhere and cause burns.
11. Toxicological information	
No toxic reaction known under normal conditions.	
Acute toxicity	: ... not applicable / not known
Specific symptoms in animal experiments	: ... not applicable / not known
Irritation effects	: ... not applicable / not known
Sensitization	: ... not applicable / not known
Subacute to chronic toxicity	: ... not applicable / not known
Carcinogenicity, mutagenicity, teratogenicity	: ... not applicable / not known
Information from practical experience	: None
Additional information	: No toxic reaction known under normal conditions.
Note	: Under decomposition conditions; toxic fumes and contaminated water, see § 10.
12. Ecological information	
Biodegradability	: Not biodegradable
Ecotoxicity	: No ecotoxic effects are to be expected for regular transportation, storage and duly use.
Further ecological information	: For transportation, storage, normal use, no toxicological effect is known. Possible water pollution, if components are washed out. In event of fire, unburned residues as well as contaminated extinguishing media must be disposed of in compliance with existing regulations.
13. Disposal considerations	
Product	: Nonwovens can be disposed of as non-hazardous solid waste, under compliance with the local regulations.
Disposal code number	:
AVV-Code	: 040222
14. Transport information	
Not classified as dangerous in the terms of transport regulations.	

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15. Regulatory information

Labelling according to EC-regulation	:	The product / is not required to be labelled according to EC regulations.
National directives	:	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

The information contained herein is based on the present state of knowledge and does not therefore guarantee certain properties. The technical safety information sheet only describes the products in aspect to their safety requirements.

Recipients of our products must take on responsibility for observing existing laws and regulations.