



# Zemdrain<sup>®</sup>

## Controlled Permeability Formwork Liners

Date of issue : 08.10.01  
Revision : 04

### 1 Chemical Product and Company Identification

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#### Material Identification

Commercial Product name: ZEMDRAIN<sup>®</sup>

#### Company Identification

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##### Manufacturer/Distributor

Du Pont de Nemours S.à.r.l.  
L - 2984 Luxembourg  
Grand Duchy of Luxembourg

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### 2 Composition/Information on Ingredients

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Nonwoven spunbonded sheet or laminated to a supporting grid.

Nature of the fibres and grid : Polypropylene (CAS nbr. 9003-07-0)

Web surface treatment : none

Binder : none

Chemicals (in relevant concentrations)  
that are in the list of dangerous substances : none

### 3 Hazards Identification

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No hazardous product under normal conditions.

N.B. Accidental thermal decomposition or melting state can present hazards.

## 4 First Aid Measures

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Under normal conditions,

<b>Inhalation</b> →	No specific measure to be taken
<b>Eyes</b> →	No specific measure to be taken
<b>Skin</b> →	No specific measure to be taken
<b>Ingestion</b> →	No specific measure to be taken

## 5 Fire Fighting Measures

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**Suitable extinguishing media:**

Water spray (except when fire is of electrical origin), Foam, Dry powder of CO<sub>2</sub>.

**Extinguishing media not to be used:** none

**Special exposure hazard:** none

For flammable and toxic fumes as well as skin contact with molten materials see §10

**Special protective clothing for fire-fighter:**

A self contained breathing apparatus and suitable protective equipment should be worn to fight fire.

## 6 Accidental Release Measures

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Not applicable.

## 7 Handling and Storage

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Normal requirements.

Use of gloves when handling is recommended.

## 8 Exposure Controls / Personal Protection

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No specific measures.

## 9 Physical and Chemical Properties

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<b>Appearance</b>	:	Nonwoven sheet, single layer or laminated on a supporting grid
<b>Colour</b>	:	grey or white sheet, white or yellow grid
<b>Odour</b>	:	none
<b>pH</b>	:	not applicable
<b>Boiling Point (Deg C)</b>	:	not applicable
<b>Melting Point (Deg C)</b>	:	ca. 168°C
<b>Decomposition temperature</b>	:	above 200°C in the presence of oxygen
<b>Flash Point (Deg C)</b>	:	not applicable
<b>Flammability</b>	:	not easily flammable (see §10)
<b>Auto ignition Temp (Deg C)</b>	:	ca. 380°C
<b>Vapour pressure</b>	:	not applicable
<b>Density (g/cm<sup>3</sup>, 20 Deg C)</b>	:	0.91
<b>Solubility (water)</b>	:	not soluble

## 10 Stability and reactivity

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Stable under normal conditions; can react with strong oxidising agents.

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 of 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 cause burns.

## 11 Toxicological Information

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No toxic reaction known under normal conditions.

Note: under decomposition conditions: toxic fumes and contaminated water (see §10)

## 12 Ecological Information

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For transportation, storage, normal use, no ecological effects known.  
No water pollution; Zemdren<sup>®</sup> may be used in drinking water systems.

## 13 Disposal Considerations

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As Zemdren<sup>®</sup> is made from 100% polypropylene, the preferred way for disposal is through recycling or thermal valorisation (incineration) ; avoid land-filling.

## 14 Transportation Information

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Not regulated, not a dangerous good as defined by the following regulations:

Sea transportation:	IMO / IMDG
Air transportation:	ICAO / IATA
Road, Rail transportation:	ADR / RID

## 15 Regulatory Information

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None

## 16 Other Information

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The data in this MSDS was prepared for Zemdrain<sup>®</sup> and Zemdrain<sup>®</sup> M series.

This document provides a Material Safety Data Sheet (MSDS) for NonWovens on a voluntary basis according to EDANA recommendations (Guidelines / Instructions relating to MSDS for Nonwovens 10/GV8/422). 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, an MSDS for nonwovens is not legally requested but must be considered as information. It is inspired from the EC recommendation for MSDS (Commission Directive 93/112/EC of 10 Dec.93, amending directive 91/155/EEC).

The information contained in this Material Safety Data Sheet has been developed by DuPont on the express request of its customers and to the best of its knowledge. Therefore, DuPont does not assume any liability with respect to the correctness and/or completeness of the information provided by this MSDS. 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.

For additional information on installation and use, please contact your distributor or the manufacturer.