

MATERIAL SAFETY DATA SHEET

OF Nonwoven Fabrics (Hydrophobic)

Updated: 28 Aug. 2017



Material Safety Data Sheet

Issued date 2017. 08. 28

Revision Rev. 01

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Name : Polypropylene Spunbond Hydrophobic Nonwoven Fabrics

1.2 Recommended use of the chemical and restrictions on use.

1) Recommended use : Not available

2) Restrictions on use : Not available

1.3 Company Identification

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SECTION 2: Hazards identification

2.1 GHS classification of the substance/mixture: N/A

2.2 GHS label elements, including precautionary statements.

1) Pictogram : N/A

2) Signal word : N/A

3) Hazard statements : N/A

Hazard statement(s)

Precautionary statement(s)

Supplemental Hazard none

Statements

2.3 Other hazards (NFPA)

1) Titanium dioxide

health 1

fire 0

reactive 0

2) CALCIUM STEARATE

health 1

fire 1

reactive 0

3) Tris(3,5-di-tert-butyl-4-hydroxybenzyl) isocyanurate

health 1

fire 1

reactive 0

4) 2,4-DI-tert-BUTYLPHENOL PHOSPHITE

health 1

fire 1

reactive 0

5) POLYPROPYLENE

health 1

fire 1

reactive 0

SECTION 3: Composition/information on ingredients

Chemical Name	Common Name Synonyms	CAS number	Content (%)
Titanium dioxide	ANATASE	13463-67-7	1 ~ 2
CALCIUM STEARATE	CALCIUM DISTEARATE	1592-23-0	
5-di-tert-butyl-4-hydroxybenzyl isocya	CARBONIC ACID, CALCIUM SALT	27676-62-6	
2,4-DI-tert-BUTYLPHENOL PHOSPHITE	Tris(2,4-di-tert-butylphenyl) Phosphite	31570-04-4	
POLYPROPYLENE	1-PROPENE, HOMOPOLYMER	9003-07-0	98

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a Physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Fire fighting measures

Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : No data available
- Specific hazards during fire fighting : No data available
- Hazardous combustion products : No data available
- Specific extinguishing methods : Standard procedure for chemical fires.
- Special protective equipment for fire fighters : In the event of fire, wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas.

Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Advice on safe handling : For personal protection see section 8. No special handling advice required.

7.2 Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.

7.3 Materials to avoid : No special restrictions on storage with other products.

7.4 Recommended storage temperature : No data available

7.5 Storage period : No data available

7.6 Packaging material : No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de,

(test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection Where risk assessment shows air-purifying respirators are appropriate use a full-face particle

respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Discharge into the environment must be avoided.

SECTION 9: Physical and chemical properties

- 1) Appearance : Solid form
- 2) Odor : odorless
- 3) Odor threshold : Not available
- 4) pH : Not available
- 5) Melting point/freezing point : 164°C
- 6) Initial boiling point and boiling range : Not available
- 7) Flash point : Not available
- 8) Evaporation rate : Not available
- 9) Flammability : Not available
- 10) Upper/lower flammability or explosive limits : Not available
- 11) Vapor pressure : Not available
- 12) Vapor density : Not applicable
- 13) Relative density : Not available
- 14) Solubility (ies) : Insoluble
- 15) Specific gravity : Not available
- 16) Partition coefficient: n-octanol/water : Not available
- 17) Auto ignition temperature : Not available
- 18) Decomposition temperature : Not available

19) Viscosity : Not applicable

20) Molecular weight : Not available

SECTION 10: Stability and reactivity

Chemical stability and possibility of hazardous reactions

Stable under recommended storage conditions. No decomposition if stored and applied as directed.

No hazards to be specially mentioned.

Conditions to avoid : No data available

Incompatible materials : No data available

Hazardous decomposition products : No data available

SECTION 11: Toxicological information

Information on likely routes of exposure : No data available

Health hazard information

(Acute toxicity : No data available

Skin corrosion/irritation

Product:

Remarks: According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

Serious eye damage/eye irritation

Product:

Remarks: According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

Respiratory or skin sensitisation

Product:

Remarks: No data available

Carcinogenicity : No data available

Germ cell mutagenicity : No data available

SECTION 12: Ecological Information

12.1 Toxicity

Toxicity to fish LC50 - Danio rerio (zebra fish) - 49 mg/l - 96 h

(Directive 67/548/EEC, Annex V, C.1.)

Toxicity to daphnia and other aquatic invertebrates

static test EC50 - Daphnia magna (Water flea) - 10,3 mg/l - 48 h (Directive 67/548/EEC, Annex V, C.2.)

Toxicity to algae static test EC50 - Desmodesmus subspicatus (Scenedesmus subspicatus) - 39,3 mg/l - 72 h

(Directive 67/548/EEC, Annex V, C.3.)

Toxicity to bacteria Growth inhibition - Pseudomonas putida - 164 mg/l - 16 h

(DIN 38 412 Part 8)

12.2 Persistence and degradability

Biodegradability aerobic - Exposure time 28 d

Result: 91,2 % - Readily biodegradable

(OECD Test Guideline 310)

12.3 Bioaccumulative potential

Bioaccumulation *Oncorhynchus mykiss* (rainbow trout) - 72 h - 5,5 µg/l

Bioconcentration factor (BCF): 3,78

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Harmful to aquatic life.

No data available

SECTION 13: Disposal considerations

Disposal methods

Waste from residues : Offer surplus and non-recyclable solutions to a li-censed disposal company.

Contaminated packaging : Empty remaining contents.

Empty containers should be taken to an approved waste handling site for recycling or disposal.

Disposal precautions

Dispose of in accordance with local regulations.

SECTION 14: Transport information

International Regulation

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

UN number : Not applicable

Proper shipping name : Not applicable

Class : Not applicable

Subsidiary risk : Not applicable

Packing group : Not applicable

Labels : Not applicable

EmS Code : Not applicable

Marine pollutant : Not applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

Refer to section 15 for specific national regulation.

Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regulations.

SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

- 1) Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available

- 2) Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

SECTION 16: OTHER INFORMATION

Issuing date : 07 July 2017

Revision number and date

- Revision number : 01

- Date of the latest revision : 28 Aug 2017

The information contained herein is to the best of our knowledge and belief accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee for result obtained, and assume no responsibility for damages incurred by use of this product. It is the responsibility of the user to comply with all federal, state and local laws and regulations.