

## Spetec WT 400

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

## 1.1. Product identifier

Product name : Spetec WT 400  
 Registration number REACH : Not applicable (mixture)  
 Product type REACH : Mixture

## 1.2. Relevant identified uses of the substance or mixture and uses advised against

## 1.2.1 Relevant identified uses

Sealant

## 1.2.2 Uses advised against

No uses advised against known

## 1.3. Details of the supplier of the safety data sheet

Supplier of the safety data sheet

Resiplast  
 Gulkenrodestraat 3  
 B-2160 Wommelgem  
 ☎ +32 3 320 02 04  
 📠 +32 3 322 63 80  
 peter@resiplast.be  
[www.resiplast.be](http://www.resiplast.be)

Manufacturer of the product

Resiplast  
 Gulkenrodestraat 3  
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 peter@resiplast.be  
[www.resiplast.be](http://www.resiplast.be)

## 1.4. Emergency telephone number

During business hours:  
 +32 3 320 02 04

## SECTION 2: Hazards identification

## 2.1. Classification of the substance or mixture

## 2.1.1 Classification according to Regulation EC No 1272/2008

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

Class	Category	Hazard statements
Resp. Sens.	category 1	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

## 2.1.2 Classification according to Directive 67/548/EEC-1999/45/EC

Classified as dangerous in accordance with the criteria of Directives 67/548/EEC and 1999/45/EC  
 R42 - May cause sensitisation by inhalation.

## 2.2. Label elements

## Labelling according to Regulation EC No 1272/2008 (CLP)



Contains: methylenediphenyl diisocyanate.

**Signal word** Danger

**H-statements**

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**P-statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

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P284	Wear respiratory protection.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P501	Dispose of contents/container in accordance with local/regional/national/international regulation.

## Supplemental information

- Persons already sensitised to diisocyanates may develop allergic reactions when using this product. - Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. - This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

## Labelling according to Directive 67/548/EEC-1999/45/EC (DSD/DPD)

### Labels



Harmful

Contains: methylenediphenyl diisocyanate.

### R-phrases

42 May cause sensitisation by inhalation

### S-phrases

(02) (Keep out of the reach of children)  
 22 Do not breathe dust  
 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)  
 (63) (In case of accident by inhalation: remove casualty to fresh air and keep at rest)

### Additional recommendations

Contains isocyanates. See information supplied by the manufacturer.  
 - Persons already sensitised to diisocyanates may develop allergic reactions when using this product.  
 - Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.  
 - This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

## 2.3. Other hazards

### CLP

Slightly irritant to eyes

### DSD/DPD

Slightly irritant to eyes

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name REACH Registration No	CAS No EC No	Conc. (C)	Classification according to DSD/DPD	Classification according to CLP	Note	Remark
hydrocarbons, C10-C12, isoalkanes, <2% aromatics 01-2119471991-29		1% <C<10%	Xn; R65 R10 R66 N; R51-53	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Aquatic Chronic 2; H411	(1)(10)	UVCB
methylenediphenyl diisocyanate 01-2119457015-45	26447-40-5 247-714-0	0.1% <C<1%	Carc. Cat. 3; R40 Xn; R20 - 48/20 Xi; R36/37/38 R42/43	Carc. 2; H351 Acute Tox. 4; H332 STOT RE 2; H373 Eye Irrit. 2; H319 STOT SE 3; H335 Skin Irrit. 2; H315 Resp. Sens. 1; H334 Skin Sens. 1; H317	(1)(2)(8)(10)	Polymer
propylene carbonate 01-2119537232-48	108-32-7 203-572-1	0.1% <C<3%	Xi; R36	Eye Irrit. 2; H319	(1)(10)	Constituent

(1) For R-phrases and H-statements in full: see heading 16  
 (2) Substance with a Community workplace exposure limit  
 (8) Specific concentration limits, see heading 16  
 (10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

## SECTION 4: First aid measures

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Date of revision: 2014-02-20

Revision number: 0200

Product number: 49319

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## 4.1. Description of first aid measures

### General:

If you feel unwell, seek medical advice.

### After inhalation:

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

### After skin contact:

Rinse with water. Take victim to a doctor if irritation persists.

### After eye contact:

Rinse with water. Take victim to an ophthalmologist if irritation persists.

### After ingestion:

Rinse mouth with water. Consult a doctor/medical service if you feel unwell.

## 4.2. Most important symptoms and effects, both acute and delayed

### 4.2.1 Acute symptoms

#### After inhalation:

No effects known.

#### After skin contact:

No effects known.

#### After eye contact:

Redness of the eye tissue. Slight irritation.

#### After ingestion:

No effects known.

### 4.2.2 Delayed symptoms

No effects known.

## 4.3. Indication of any immediate medical attention and special treatment needed

If applicable and available it will be listed below.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### 5.1.1 Suitable extinguishing media:

Water spray. Polyvalent foam. ABC powder. Carbon dioxide.

#### 5.1.2 Unsuitable extinguishing media:

No unsuitable extinguishing media known.

### 5.2. Special hazards arising from the substance or mixture

On burning: release of toxic and corrosive gases/vapours (hydrogen chloride, carbon monoxide - carbon dioxide) and formation of small quantities of sulphur oxides.

### 5.3. Advice for firefighters

#### 5.3.1 Instructions:

Dilute toxic gases with water spray.

#### 5.3.2 Special protective equipment for fire-fighters:

Gloves. Protective clothing. Heat/fire exposure: compressed air/oxygen apparatus.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

No naked flames.

#### 6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

#### 6.1.2 Protective equipment for emergency responders

Gloves. Protective clothing.

#### Suitable protective clothing

See heading 8.2

### 6.2. Environmental precautions

Contain leaking substance. Use appropriate containment to avoid environmental contamination.

### 6.3. Methods and material for containment and cleaning up

Scoop solid spill into closing containers. Clean contaminated surfaces with a soap solution. Wash clothing and equipment after handling.

### 6.4. Reference to other sections

See heading 13.

## SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

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## 7.1. Precautions for safe handling

Keep away from naked flames/heat. Keep container tightly closed. Observe very strict hygiene - avoid contact.

## 7.2. Conditions for safe storage, including any incompatibilities

### 7.2.1 Safe storage requirements:

Store at room temperature. Store in a dry area. Meet the legal requirements. Max. storage time: 1 year(s).

### 7.2.2 Keep away from:

Heat sources.

### 7.2.3 Suitable packaging material:

Synthetic material.

### 7.2.4 Non suitable packaging material:

No data available

## 7.3. Specific end use(s)

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 Occupational exposure

##### a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

##### UK

Isocyanates, all (as -NCO) Except methyl isocyanate	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	0.02 mg/m <sup>3</sup>
	Short time value (Workplace exposure limit (EH40/2005))	0.07 mg/m <sup>3</sup>

##### b) National biological limit values

If limit values are applicable and available these will be listed below.

#### 8.1.2 Sampling methods

If applicable and available it will be listed below.

4,4-Methylene Bisphenyl Isocyanate (MDI) (Isocyanates)	NIOSH	5521
Isocyanates	NIOSH	5521
Isocyanates	NIOSH	5522
Methylene Bisphenyl Isocyanate (MDI)	OSHA	47

#### 8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

#### 8.1.4 DNEL/PNEC values

##### DNEL/DMEL - Workers

methylenediphenyl diisocyanate

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	0.05 mg/m <sup>3</sup>	
	Acute systemic effects inhalation	0.1 mg/m <sup>3</sup>	
	Long-term local effects inhalation	0.05 mg/m <sup>3</sup>	
	Acute local effects inhalation	0.1 mg/m <sup>3</sup>	
	Acute systemic effects dermal	50 mg/kg bw/day	
	Acute local effects dermal	28.7 mg/cm <sup>2</sup>	

##### DNEL/DMEL - General population

methylenediphenyl diisocyanate

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	0.025 mg/m <sup>3</sup>	
	Acute systemic effects inhalation	0.05 mg/m <sup>3</sup>	
	Long-term local effects inhalation	0.025 mg/m <sup>3</sup>	
	Acute local effects inhalation	0.05 mg/m <sup>3</sup>	
	Acute systemic effects dermal	25 mg/kg bw/day	
	Acute local effects dermal	7.2 mg/cm <sup>2</sup>	
	Acute systemic effects oral	20 mg/kg bw/day	

##### PNEC

methylenediphenyl diisocyanate

Compartments	Value	Remark
Fresh water	1 mg/l	
Marine water	0.1 mg/l	
Aqua (intermittent releases)	10 mg/l	
STP	1 mg/l	
Soil	1 mg/kg soil dw	

#### 8.1.5 Control banding

If applicable and available it will be listed below.

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## 8.2. Exposure controls

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 8.2.1 Appropriate engineering controls

Keep away from naked flames/heat. Keep container tightly closed. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

### 8.2.2 Individual protection measures, such as personal protective equipment

Observe very strict hygiene - avoid contact. Do not eat, drink or smoke during work.

#### a) Respiratory protection:

Wear gas mask with filter type A if conc. in air > exposure limit.

#### b) Hand protection:

Gloves.

#### c) Eye protection:

Safety glasses.

#### d) Skin protection:

Protective clothing.

### 8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical form	Paste
Odour	Characteristic odour
Odour threshold	No data available
Colour	Variable in colour, depending on the composition
Particle size	No data available
Explosion limits	No data available
Flammability	Non combustible
Log Kow	Not applicable (mixture)
Dynamic viscosity	No data available
Kinematic viscosity	No data available
Melting point	No data available
Boiling point	No data available
Flash point	Not applicable
Evaporation rate	No data available
Relative vapour density	Not applicable
Vapour pressure	No data available
Solubility	No data available
Relative density	1.44
Decomposition temperature	No data available
Auto-ignition temperature	No data available
Explosive properties	No chemical group associated with explosive properties
Oxidising properties	No chemical group associated with oxidising properties
pH	No data available

### 9.2. Other information

Absolute density	1440 kg/m <sup>3</sup>
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No data available.

### 10.4. Conditions to avoid

Keep away from naked flames/heat. Keep container tightly closed.

### 10.5. Incompatible materials

No data available.

### 10.6. Hazardous decomposition products

On burning: release of toxic and corrosive gases/vapours (hydrogen chloride, carbon monoxide - carbon dioxide) and formation of small quantities of sulphur oxides.

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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### 11.1.1 Test results

##### Acute toxicity

###### Spetec WT 400

No (test) data on the mixture available

hydrocarbons, C10-C12, isoalkanes, < 2% aromatics

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	Equivalent to OECD 423	> 15000 mg/kg bw		Rat (male/female)	Read-across	
Dermal	LD50	Equivalent to OECD 402	≥ 3160 mg/kg bw	24 h	Rabbit (male/female)	Read-across	
Inhalation (vapours)	LC50	Equivalent to OECD 403	> 4951 mg/m <sup>3</sup> air	4 h	Rat (male)	Read-across	

methylenediphenyl diisocyanate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	Other	> 2000 mg/kg bw		Rat (male/female)	Experimental value	
Skin	LD50	Equivalent to OECD 402	> 9400 mg/kg bw	24 h	Rabbit (male/female)	Read-across	
Inhalation (aerosol)	LC50	Equivalent to OECD 403	0.49 mg/l air	4 h	Rat (male/female)	Read-across	
Inhalation (aerosol)	LC50	OECD 403	> 2.24 mg/l air	1 h	Rat (male/female)	Read-across	

propylene carbonate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50		> 20000 mg/kg		Rat		
Dermal	LD50		> 24000 mg/kg		Rabbit		

Judgement is based on the relevant ingredients

##### Conclusion

Not classified for acute toxicity

##### Corrosion/irritation

###### Spetec WT 400

No (test) data on the mixture available

hydrocarbons, C10-C12, isoalkanes, < 2% aromatics

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Not irritating	Equivalent to OECD 405		1; 24; 48; 72; 168 hours	Rabbit	Read-across	
Skin	Not irritating	Equivalent to OECD 404	4 h	24; 48; 72 hours	Rabbit	Read-across	

methylenediphenyl diisocyanate

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Irritating	Human			Human	Weight of evidence	
Skin	Irritating	OECD 404	4 h	24; 48; 72 hours	Rabbit	Read-across	
Skin	Irritating	Human			Human	Weight of evidence	
Inhalation (aerosol)	Irritating	Human			Human	Weight of evidence	

Judgement is based on the relevant ingredients

##### Conclusion

Not classified as irritating to the skin

Not classified as irritating to the eyes

##### Respiratory or skin sensitisation

###### Spetec WT 400

No (test) data on the mixture available

hydrocarbons, C10-C12, isoalkanes, < 2% aromatics

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	Equivalent to OECD 406		24; 48 hours	Guinea pig (female)	Read-across	
Skin	Not sensitizing	Human observation			Human	Read-across	

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## methylenediphenyl diisocyanate

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	Equivalent to OECD 429		24; 48 hours	Guinea pig (male/female)	Read-across	
Skin	Sensitizing	Human observation			Human	Literature study	
Inhalation	Sensitizing	Other			Rat (male)	Experimental value	
Inhalation	Sensitizing	Human observation			Human	Experimental value	

Classification is based on the relevant ingredients

### **Conclusion**

Not classified as sensitizing for skin

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

### **Specific target organ toxicity**

#### Spetec WT 400

No (test) data on the mixture available

#### hydrocarbons, C10-C12, isoalkanes, < 2% aromatics

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral (stomach tube)	NOAEL	Equivalent to OECD 422	≥ 1000 mg/kg bw/day		No effect		Rat (male/female)	Read-across
Oral (diet)	NOAEL	Equivalent to OECD 408	≥ 1000 ppm		No effect	13 weeks (daily)	Dog (male/female)	Read-across
Oral (diet)	NOAEL	Equivalent to OECD 408	≥ 30000 ppm		No effect	13 weeks (daily)	Rat (male/female)	Read-across
Inhalation (vapours)	NOAEC	Equivalent to OECD 413	> 10400 mg/m <sup>3</sup> air			13 weeks (6h/day, 5 days/week)	Rat (male/female)	Read-across

## methylenediphenyl diisocyanate

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Inhalation (aerosol)	NOAEC	Equivalent to OECD 453	0.2 mg/m <sup>3</sup> air		No effect	104 weeks (6h/day, 5 days/week)	Rat (male/female)	Read-across
Inhalation (aerosol)	LOAEC	Equivalent to OECD 453	1 mg/m <sup>3</sup> air	Lungs	Histopathological changes	104 weeks (6h/day, 5 days/week)	Rat (male/female)	Read-across
Inhalation		Human observation			Lung tissue affection/degeneration		Human	Experimental value

Judgement is based on the relevant ingredients

### **Conclusion**

Not classified for subchronic toxicity

### **Mutagenicity (in vitro)**

#### Spetec WT 400

No (test) data on the mixture available

#### hydrocarbons, C10-C12, isoalkanes, < 2% aromatics

Result	Method	Test substrate	Effect	Value determination
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 476	Chinese hamster lung fibroblasts		Read-across
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 476	Mouse (lymphoma L5178Y cells)		Read-across
Negative with metabolic activation, negative without metabolic activation	OECD 471	Bacteria (S.typhimurium)		Read-across
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 479	Chinese hamster ovary (CHO)		Read-across
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 473	Human lymphocytes		Read-across

## methylenediphenyl diisocyanate

Result	Method	Test substrate	Effect	Value determination
Negative with metabolic activation, negative without metabolic activation	OECD 471	Bacteria (S.typhimurium)	No effect	Read-across

### **Mutagenicity (in vivo)**

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No (test)data on the mixture available

hydrocarbons, C10-C12, isoalkanes, < 2% aromatics

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative	Equivalent to OECD 474		Mouse (male/female)	Bone marrow	Read-across
Negative	Equivalent to OECD 478	5 days (6h/day)	Rat (male/female)		Read-across

methylenediphenyl diisocyanate

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative	OECD 474	3 weeks (1h/day, 1 day/week)	Rat (male)		Read-across

## Carcinogenicity

Spetec WT 400

No (test)data on the mixture available

hydrocarbons, C10-C12, isoalkanes, < 2% aromatics

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Organ	Effect
Inhalation (vapours)	NOAEC	Equivalent to OECD 453	≥ 2200 mg/m <sup>3</sup> air	105 weeks (6h/day, 5 days/week)	Rat (female)	Read-across		No effect
Inhalation (vapours)	NOAEC	Equivalent to OECD 453	138 mg/m <sup>3</sup> air	105 weeks (6h/day, 5 days/week)	Rat (male)	Read-across		No effect
Inhalation (vapours)	NOAEC	Equivalent to OECD 453	≥ 2200 mg/m <sup>3</sup> air	105 weeks (6h/day, 5 days/week)	Mouse (male)	Read-across		No effect
Inhalation (vapours)	NOAEC	Equivalent to OECD 453	≥ 1100 mg/m <sup>3</sup> air	105 weeks (6h/day, 5 days/week)	Mouse (female)	Read-across		No effect

methylenediphenyl diisocyanate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Organ	Effect
Inhalation (aerosol)	NOAEL	Equivalent to OECD 453	1 mg/m <sup>3</sup> air	104 weeks (6h/day, 5 days/week)	Rat (male/female)	Read-across		No carcinogenic effect
Inhalation (aerosol)	LOAEL	Equivalent to OECD 453	6 mg/m <sup>3</sup> air	104 weeks (6h/day, 5 days/week)	Rat (male/female)	Read-across	Lungs	Tumor formation

## Reproductive toxicity

Spetec WT 400

No (test)data on the mixture available

hydrocarbons, C10-C12, isoalkanes, < 2% aromatics

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEL	Equivalent to OECD 414	≥ 5220 mg/m <sup>3</sup> air	10 days (6h/day)	Rat (male/female)	No effect		Experimental value
Maternal toxicity	NOAEL	OECD 414	≥ 5220 mg/m <sup>3</sup> air	10 days (6h/day)	Rat (female)	No effect		Experimental value
Effects on fertility	NOAEC (P/F1)	Equivalent to OECD 421	≥ 300 ppm	8 weeks (6h/day, 5 days/week)	Rat (male/female)	No effect		Experimental value

methylenediphenyl diisocyanate

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEL	OECD 414	4 mg/m <sup>3</sup> air	10 days (6h/day)	Rat (female)	No effect	Foetus	Read-across
Maternal toxicity	NOAEL	OECD 414	4 mg/m <sup>3</sup> air	10 days (6h/day)	Rat (female)	No effect		Read-across

Judgement is based on the relevant ingredients

### Conclusion CMR

Not classified for carcinogenicity

Not classified for mutagenic or genotoxic toxicity

Not classified for reprotoxic or developmental toxicity

### Toxicity other effects

Spetec WT 400

No (test)data on the mixture available

### Chronic effects from short and long-term exposure

Spetec WT 400

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Respiratory difficulties.

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## SECTION 12: Ecological information

### 12.1. Toxicity

#### Spetec WT 400

No (test)data on the mixture available

hydrocarbons, C10-C12, isoalkanes, < 2% aromatics

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LL50	OECD 203	> 1000 mg/l	96 h	Oncorhynchus mykiss	Semi-static system	Fresh water	Experimental value; GLP
Acute toxicity invertebrates	EL50	OECD 202	> 1000 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; GLP
Toxicity algae and other aquatic plants	EL50	OECD 201	> 1000 mg/l	72 h	Pseudokirchneriella subcapitata	Static system		Experimental value; GLP
Long-term toxicity fish	NOELR		0.192 mg/l	28 day(s)	Oncorhynchus mykiss		Fresh water	QSAR; Growth
Long-term toxicity aquatic invertebrates	NOELR	OECD 211	< 1 mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Experimental value; GLP

methylenediphenyl diisocyanate

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	> 1000 mg/l	96 h	Brachydanio	Static system	Fresh water	Read-across; Lethal
Acute toxicity invertebrates	EC50	OECD 202	> 1000 mg/l	24 h	Daphnia magna	Static system	Fresh water	Read-across
Toxicity algae and other aquatic plants	EC50	OECD 201	> 1640 mg/l	72 h	Scenedesmus subspicatus	Static system	Fresh water	Read-across; Growth rate
Long-term toxicity aquatic invertebrates	NOEC	OECD 211	≥ 10 mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Read-across; Reproduction
Toxicity aquatic micro-organisms	EC50	OECD 209	> 100 mg/l	3 h	Activated sludge	Static system	Fresh water	Read-across; Respiration

	Parameter	Method	Value	Duration	Species	Value determination
Toxicity soil macro-organisms	LC50	OECD 207	> 1000 mg/kg soil dw	14 day(s)	Eisenia fetida	Read-across
Toxicity terrestrial plants	EC50	Equivalent to OECD 208	> 1000 mg/kg soil dw	14 day(s)	Terrestrial plants	Read-across

propylene carbonate

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50		5300 mg/l	96 h	Leuciscus idus	Static system		
Acute toxicity invertebrates	EC50		> 1000 mg/l	48 h	Daphnia magna			GLP
Toxicity aquatic micro-organisms			300 ppm	7 day(s)				
			> 10000 mg/l					

Judgement of the mixture is based on the relevant ingredients

#### Conclusion

Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008

Not classified as dangerous for the environment according to the criteria of Directive 1999/45/EC

### 12.2. Persistence and degradability

hydrocarbons, C10-C12, isoalkanes, < 2% aromatics

#### Biodegradation water

Method	Value	Duration	Value determination
Equivalent or similar to OECD 301F	31 %	28 day(s)	Experimental value

methylenediphenyl diisocyanate

#### Biodegradation water

Method	Value	Duration	Value determination
OECD 302C: Inherent Biodegradability: Modified MITI Test (II)	0 %; GLP	28 day(s)	Read-across

#### Phototransformation air (DT50 air)

Method	Value	Conc. OH-radicals	Value determination
AOPWIN v1.92	0.92 day(s); GLP		QSAR

propylene carbonate

#### Biodegradation water

Method	Value	Duration	Value determination
OECD 301A: DOC Die-Away Test	98 %	28 day(s)	Experimental value
			Experimental value

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## Conclusion

Contains non readily biodegradable component(s)

## 12.3. Bioaccumulative potential

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### Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

hydrocarbons, C10-C12, isoalkanes, < 2% aromatics

### Log Kow

Method	Remark	Value	Temperature	Value determination
		6.2 - 7.2		

methylenediphenyl diisocyanate

### BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF	OECD 305	92	28 day(s)	Cyprinus carpio	Read-across

### Log Kow

Method	Remark	Value	Temperature	Value determination
OECD 117		4.51	22 °C	Experimental value

propylene carbonate

### Log Kow

Method	Remark	Value	Temperature	Value determination
		-0.48 - -0.41		Experimental value

## Conclusion

No straightforward conclusion can be drawn based upon the available numerical values

## 12.4. Mobility in soil

hydrocarbons, C10-C12, isoalkanes, < 2% aromatics

### Percent distribution

Method	Fraction air	Fraction biota	Fraction sediment	Fraction soil	Fraction water	Value determination
Mackay level III	46.9 %	0 %	36 %	14 %	3.1 %	Calculated value

## Conclusion

Contains component(s) that adsorb(s) into the soil

## 12.5. Results of PBT and vPvB assessment

Due to insufficient data no statement can be made whether the component(s) fulfil(s) the criteria of PBT and vPvB according to Annex XIII of Regulation (EC) No 1907/2006.

## 12.6. Other adverse effects

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### Global warming potential (GWP)

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EC) No 517/2014)

### Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

hydrocarbons, C10-C12, isoalkanes, < 2% aromatics

### Global warming potential (GWP)

Not included in the list of fluorinated greenhouse gases (Regulation (EC) No 517/2014)

methylenediphenyl diisocyanate

### Global warming potential (GWP)

Not included in the list of fluorinated greenhouse gases (Regulation (EC) No 517/2014)

## SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 13.1. Waste treatment methods

#### 13.1.1 Provisions relating to waste

Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

08 04 10 (wastes from MFSU of adhesives and sealants (including waterproofing products): waste adhesives and sealants other than those mentioned in 08 04 09). Depending on branch of industry and production process, also other waste codes may be applicable. Can be considered as non hazardous waste according to Directive 2008/98/EC.

#### 13.1.2 Disposal methods

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Remove to an incinerator for chlorinated waste materials with energy recovery. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals.

## 13.1.3 Packaging/Container

Waste material code packaging (Directive 2008/98/EC).

15 01 10\* (packaging containing residues of or contaminated by dangerous substances).

## SECTION 14: Transport information

### Road (ADR)

14.1. UN number	Transport	Not subject
14.2. UN proper shipping name		
14.3. Transport hazard class(es)		
Hazard identification number		
Class		
Classification code		
14.4. Packing group		
Packing group		
Labels		
14.5. Environmental hazards		
Environmentally hazardous substance mark	no	
14.6. Special precautions for user		
Special provisions		
Limited quantities		

### Rail (RID)

14.1. UN number	Transport	Not subject
14.2. UN proper shipping name		
14.3. Transport hazard class(es)		
Hazard identification number		
Class		
Classification code		
14.4. Packing group		
Packing group		
Labels		
14.5. Environmental hazards		
Environmentally hazardous substance mark	no	
14.6. Special precautions for user		
Special provisions		
Limited quantities		

### Inland waterways (ADN)

14.1. UN number	Transport	Not subject
14.2. UN proper shipping name		
14.3. Transport hazard class(es)		
Class		
Classification code		
14.4. Packing group		
Packing group		
Labels		
14.5. Environmental hazards		
Environmentally hazardous substance mark	no	
14.6. Special precautions for user		
Special provisions		
Limited quantities		

### Sea (IMDG/IMSBC)

14.1. UN number	Transport	Not subject
14.2. UN proper shipping name		
14.3. Transport hazard class(es)		
Class		
14.4. Packing group		
Packing group		
Labels		

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**14.5. Environmental hazards**

Marine pollutant	-
Environmentally hazardous substance mark	no

**14.6. Special precautions for user**

Special provisions	
Limited quantities	

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

Annex II of MARPOL 73/78	
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**Air (ICAO-TI/IATA-DGR)**

**14.1. UN number**

Transport	Not subject
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**14.2. UN proper shipping name**

**14.3. Transport hazard class(es)**

Class	
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**14.4. Packing group**

Packing group	
Labels	

**14.5. Environmental hazards**

Environmentally hazardous substance mark	no
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**14.6. Special precautions for user**

Special provisions	
Passenger and cargo transport: limited quantities: maximum net quantity per packaging	

## SECTION 15: Regulatory information

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

European legislation:

VOC content Directive 2010/75/EU

VOC content	Remark
4 %	

REACH Annex XVII - Restriction

Contains component(s) subject to restrictions of Annex XVII of Regulation (EC) No 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

	Designation of the substance, of the group of substances or of the mixture	Conditions of restriction
· hydrocarbons, C10-C12, isoalkanes, < 2% aromatics · methylenediphenyl diisocyanate · propylene carbonate	Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: (a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F; (b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10; (c) hazard class 4.1; (d) hazard class 5.1.	1. Shall not be used in: — ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays, — tricks and jokes, — games for one or more participants, or any article intended to be used as such, even with ornamental aspects, 2. Articles not complying with paragraph 1 shall not be placed on the market. 3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they: — can be used as fuel in decorative oil lamps for supply to the general public, and, — present an aspiration hazard and are labelled with R65 or H304, 4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN). 5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met: a) lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil — or even sucking the wick of lamps — may lead to life-threatening lung damage"; b) grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter may lead to life threatening lung damage"; c) lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010. 6. No later than 1 June 2014, the Commission shall request the European Chemicals Agency to prepare a dossier, in accordance with Article 69 of the present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled R65 or H304, intended for supply to the general public. 7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.'
· hydrocarbons, C10-C12, isoalkanes, < 2% aromatics	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2,	1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:

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	substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to that Regulation or not.	<ul style="list-style-type: none"> <li>— metallic glitter intended mainly for decoration,</li> <li>— artificial snow and frost,</li> <li>— “whoopie” cushions,</li> <li>— silly string aerosols,</li> <li>— imitation excrement,</li> <li>— horns for parties,</li> <li>— decorative flakes and foams,</li> <li>— artificial cobwebs,</li> <li>— stink bombs.</li> </ul> <p>2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with: “For professional users only”.</p> <p>3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/ 324/EEC. 4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.</p>
· methylenediphenyl diisocyanate	Methylenediphenyl diisocyanate (MDI) including the following specific isomers: 4,4'-Methylenediphenyl diisocyanate; 2,4'-Methylenediphenyl diisocyanate; 2,2'-Methylenediphenyl diisocyanate	<p>1. Shall not be placed on the market after 27 December 2010, as a constituent of mixtures in concentrations equal to or greater than 0,1 % by weight of MDI for supply to the general public, unless suppliers shall ensure before the placing on the market that the packaging:</p> <p>(a) contains protective gloves which comply with the requirements of Council Directive 89/686/EEC;</p> <p>(b) is marked visibly, legibly and indelibly as follows, and without prejudice to other Community legislation concerning the classification, packaging and labelling of substances and mixtures:  “— Persons already sensitised to diisocyanates may develop allergic reactions when using this product.  — Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.  — This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.</p> <p>2. By way of derogation, paragraph 1(a) shall not apply to hot melt adhesives.</p>

## National legislation The Netherlands

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Waste identification (the Netherlands)	LWCA (the Netherlands): KGA category 04
Waterbezwaarlijkheid	11

## National legislation Germany

### Spetec WT 400

WGK	1; Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4)
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### hydrocarbons, C10-C12, isoalkanes, < 2% aromatics

TA-Luft	5.2.5; I
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## National legislation France

### Spetec WT 400

No data available

## National legislation Belgium

### Spetec WT 400

No data available

## Other relevant data

### Spetec WT 400

No data available

### methylenediphenyl diisocyanate

IARC - classification	3; 4,4'-methylenediphenyl diisocyanate and polymeric 4,4'-methylenediphenyl diisocyanate
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## 15.2. Chemical safety assessment

No chemical safety assessment is required.

## SECTION 16: Other information

### Full text of any R-phrases referred to under headings 2 and 3:

- R10 Flammable
- R20 Harmful by inhalation
- R36 Irritating to eyes
- R36/37/38 Irritating to eyes, respiratory system and skin
- R40 Limited evidence of a carcinogenic effect
- R42 May cause sensitisation by inhalation
- R42/43 May cause sensitisation by inhalation and skin contact
- R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation
- R51 Toxic to aquatic organisms
- R53 May cause long-term adverse effects in the aquatic environment
- R65 Harmful: may cause lung damage if swallowed

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R66 Repeated exposure may cause skin dryness or cracking

**Full text of any H-statements referred to under headings 2 and 3:**

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

H373 May cause damage to the lungs through prolonged or repeated exposure if inhaled.

H411 Toxic to aquatic life with long lasting effects.

(\*) = INTERNAL CLASSIFICATION BY BIG

PBT-substances = persistent, bioaccumulative and toxic substances

DSD Dangerous Substance Directive

DPD Dangerous Preparation Directive

CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)

**Specific concentration limits CLP**

methylenediphenyl diisocyanate	C ≥ 5 %	Eye Irrit. 2; H319	CLP Annex VI (ATP 1)
	C ≥ 5 %	Skin Irrit. 2; H315	CLP Annex VI (ATP 1)
	C ≥ 0.1 %	Resp. Sens. 1; H334	CLP Annex VI (ATP 1)
	C ≥ 5 %	STOT SE 3; H335	CLP Annex VI (ATP 1)

**Specific concentration limits DSD**

methylenediphenyl diisocyanate	C ≥ 5 %	Xi; R36/37/38	DSD Annex VI (ATP 1)
	C ≥ 0,1 %	R42	DSD Annex VI (ATP 1)

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