

# SAFETY DATA SHEET

Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2015/830

# **Structan Express**

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

## 1.1. Product identifier

Product name Registration number REACH Product type REACH : Structan Express : Not applicable (mixture)

# : Mixture

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

1.2.1 Relevant identified uses Adhesive

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

Rectavit N.V. Ambachtenlaan 4 B-9080 Lochristi **27** + 32 9 216 85 20 + 32 9 216 85 30 msds@rectavit.be

#### Manufacturer of the product

Rectavit N.V. Ambachtenlaan 4 B-9080 Lochristi ☎ +32 9 216 85 20 +32 9 216 85 30 msds@rectavit.be

#### 1.4. Emergency telephone number

24h/24h (Telephone advice: English, French, German, Dutch):

+32 14 58 45 45 (BIG)

# SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Class	Category	Hazard statements
Carc.	category 2	H351: Suspected of causing cancer.
Acute Tox.	category 4	H332: Harmful if inhaled.
STOT RE	category 2	H373: May cause damage to organs through prolonged or repeated exposure if inhaled.
Eye Irrit.	category 2	H319: Causes serious eye irritation.
STOT SE	category 3	H335: May cause respiratory irritation.
Skin Irrit.	category 2	H315: Causes skin irritation.
Resp. Sens.	category 1	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sens.	category 1	H317: May cause an allergic skin reaction.

## 2.2. Label elements



Contains: 4,4'-methylenediphenyl diisocyanate; o-(p-isocyanatobenzyl)phenyl isocyanate; aromatic polyisocyanate prepolymer. Signal word Danger

H-statements		
H351	Suspected of causing cancer.	
H332	Harmful if inhaled.	
H373	May cause damage to organs through prolonged o	r repeated exposure if inhaled.
H319	Causes serious eye irritation.	
H335	May cause respiratory irritation.	
H315	Causes skin irritation.	
,	iecentrum voor gevaarlijke stoffen vzw (BIG)	Publication date: 2003-01-30
nische Schoolstraat 43 A, B	-2440 Geel	Date of revision: 2016-02-19

Technische Schoolstraat 43 A, B-2440 Gee http://www.big.be

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H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
P-statements	
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P280	Wear protective gloves, protective clothing and eye protection/face protection.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P302 + P352	IF ON SKIN: Wash with plenty of water and soap.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER/doctor if you feel unwell.
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.

# 2.3. Other hazards

No other hazards known

# 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 CLP	Note	Remark
4,4'-methylenediphenyl diisocyanate 01-2119457014-47	101-68-8 202-966-0	10% <c<20%< td=""><td>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</td><td>(1)(2)(8)(10)</td><td>Constituent</td></c<20%<>	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)	Constituent
o-(p-isocyanatobenzyl)phenyl isocyanate 01-2119480143-45	5873-54-1 227-534-9	10% <c<20%< td=""><td></td><td>(1)(2)(8)(10)</td><td>Constituent</td></c<20%<>		(1)(2)(8)(10)	Constituent
aromatic polyisocyanate prepolymer	99784-49-3	C>50 %	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)(10)	Constituent

(1) For 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

### 4.1. Description of first aid measures

### General:

Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

#### After inhalation:

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

After skin contact:

Reason for revision: 15

Wash immediately with lots of water. Do not apply (chemical) neutralizing agents. Take victim to a doctor if irritation persists.

#### After eye contact:

Rinse immediately with plenty of water. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.

### After ingestion:

Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Consult a doctor/medical service if you feel

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

4.2.1 Acute symptoms

After inhalation: Dry/sore throat. Coughing. Runny nose. Irritation of the respiratory tract. Irritation of the nasal mucous membranes. After skin contact: Tingling/irritation of the skin. After eye contact: Irritation of the eye tissue. After ingestion: Irritation of the gastric/intestinal mucosa. 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:
  - Polyvalent foam. BC powder. Carbon dioxide. MAJOR FIRE: Water spray.
- 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 (nitrous vapours, carbon monoxide - carbon dioxide). Reacts slowly with water (moisture): release of carbon dioxide.

#### 5.3. Advice for firefighters

#### 5.3.1 Instructions:

Dilute toxic gases with water spray. Take account of toxic/corrosive precipitation water.

- 5.3.2 Special protective equipment for fire-fighters:
  - Gloves. Safety glasses. 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. Safety glasses. Protective clothing.

See heading 8.2

#### 6.2. Environmental precautions

Contain leaking substance. Dam up the solid spill. Use appropriate containment to avoid environmental contamination. Prevent spreading in sewers.

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

Scoop solid spill into closing containers. Containers must not be sealed hermetically. Carefully collect the spill/leftovers. Clean (treat) contaminated surfaces with acetone. Take collected spill to manufacturer/competent authority. 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.

#### 7.1. Precautions for safe handling

Keep away from naked flames/heat. Observe very strict hygiene - avoid contact. Keep container tightly closed. Remove contaminated clothing immediately. Do not discharge the waste into the drain.

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

Reason for revision: 15

#### 7.2.1 Safe storage requirements:

Store in a dry area. Keep container in a well-ventilated place. Keep only in the original container. Meet the legal requirements. Max. storage time: 1 year(s).

# 7.2.2 Keep away from:

Heat sources, (strong) acids, (strong) bases, alcohols, amines, water/moisture.

- 7.2.3 Suitable packaging material:
  - Polyethylene.
- 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.

#### The Netherlands

Difenylmethaan-4,4'-diisocyanaat		exposure limit value)	ge exposure limit 8 h (Private occupational	0.0048 ppm
			ge exposure limit 8 h (Private occupational	0.05 mg/m³
			ate occupational exposure limit value)	0.02 ppm
			ate occupational exposure limit value)	0.21 mg/m <sup>3</sup>
Belgium			······································	
4,4'-Diisocyanate de diphénylm	iéthane (MDI)	Time-weighted average	ge exposure limit 8 h	0.005 ppm
	ι <i>γ</i>	Time-weighted average		0.052 mg/m <sup>3</sup>
USA (TLV-ACGIH)		·		
Methylene bisphenyl isocyanate	(MDI)	Time-weighted average	ge exposure limit 8 h (TLV - Adopted Value)	0.005 ppm
Cormony				1
Germany 4,4'-Methylendiphenyldiisocyana	at	Time weighted average	ge exposure limit 8 h (TRGS 900)	0.05 mg/m <sup>3</sup>
o-(p-Isocyanatobenzyl)phenyliso			ge exposure limit 8 h (TRGS 900)	0.05 mg/m <sup>3</sup>
_	lyanat			0.05 mg/m
<b>rance</b> 1,4'-Diisocyanate de diphénylmé	óthane	Time-weighted avora	ge exposure limit 8 h (VL: Valeur non	0.01 ppm
+,+ -Dilsocyariate de diplieilylille		réglementaire indicat		0.01 hhiii
			ge exposure limit 8 h (VL: Valeur non	0.1 mg/m <sup>3</sup>
		réglementaire indicat		
		-	Valeur non réglementaire indicative)	0.02 ppm
			Valeur non réglementaire indicative)	0.2 mg/m <sup>3</sup>
JK				
Isocyanates, all (as -NCO) Except	t methyl isocyanate	Time-weighted averaį (EH40/2005))	ge exposure limit 8 h (Workplace exposure lir	nit 0.02 mg/m³
		Short time value (Ma		
		Short time value (wo	<pre>rkplace exposure limit (EH40/2005))</pre>	0.07 mg/m³
b) National biological limit values	<u>s</u>		rkplace exposure limit (EH40/2005))	0.07 mg/m³
If limit values are applicable and		· · · · ·	Kplace exposure limit (EH40/2005))	0.07 mg/m³
If limit values are applicable and 2 Sampling methods		d below.		0.07 mg/m³
If limit values are applicable and 2 Sampling methods Product name	available these will be liste	d below.	Number	0.07 mg/m³
If limit values are applicable and 2 Sampling methods Product name 4,4-Methylene Bisphenyl Isocyar	available these will be lister nate (MDI) (Isocyanates)	d below. Test NIOSH	Number 5521	0.07 mg/m³
If limit values are applicable and 2 Sampling methods Product name 4,4-Methylene Bisphenyl Isocyar 4,4'-Methylenebis(phenylisocyar	available these will be lister nate (MDI) (Isocyanates)	d below. Test NIOSH NIOSH	Number           5521           5525	0.07 mg/m³
If limit values are applicable and 2 Sampling methods Product name 4,4-Methylene Bisphenyl Isocyar 4,4'-Methylenebis(phenylisocyar Isocyanates	available these will be lister nate (MDI) (Isocyanates)	d below. Test NIOSH NIOSH NIOSH	Number           5521           5525           5521	<u>0.07 mg/m³</u>
If limit values are applicable and 2 Sampling methods Product name 4,4-Methylene Bisphenyl Isocyar 4,4'-Methylenebis(phenylisocyar Isocyanates Isocyanates	available these will be lister nate (MDI) (Isocyanates) nate)	d below. Test NIOSH NIOSH NIOSH NIOSH	Number           5521           5525           5521           5521           5522	<u>0.07 mg/m³</u>
If limit values are applicable and 2 Sampling methods Product name 4,4-Methylene Bisphenyl Isocyar 4,4'-Methylenebis(phenylisocyar Isocyanates Isocyanates Methylene Bisphenyl Isocyanate	available these will be lister nate (MDI) (Isocyanates) nate) (MDI)	d below. Test NIOSH NIOSH NIOSH NIOSH OSHA	Number           5521           5525           5521           5521           5521           5521           5522           18	<u>0.07 mg/m³</u>
If limit values are applicable and 2 Sampling methods Product name 4,4-Methylene Bisphenyl Isocyar 4,4'-Methylenebis(phenylisocyar Isocyanates Isocyanates Methylene Bisphenyl Isocyanate Methylene Bisphenyl Isocyanate	available these will be lister nate (MDI) (Isocyanates) nate) - (MDI)	d below. Test NIOSH NIOSH NIOSH NIOSH OSHA OSHA	Number           5521           5525           5521           5522           18           47	<u>0.07 mg/m³</u>
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If limit values are applicable and 2 Sampling methods Product name 4,4-Methylene Bisphenyl Isocyar 4,4'-Methylenebis(phenylisocyar Isocyanates Isocyanates Methylene Bisphenyl Isocyanate Methylene Bisphenyl Isocyanate Methylene Bisphenyl Isocyanate 3 Applicable limit values when u If limit values are applicable and 4 DNEL/PNEC values DNEL/DMEL - Workers	available these will be lister nate (MDI) (Isocyanates) nate) - (MDI) - (MDI) - using the substance or mixt available these will be lister	d below. Test NIOSH NIOSH NIOSH NIOSH OSHA OSHA OSHA OSHA ture as intended	Number           5521           5525           5521           5522           18           47	
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Revision number: 0401

Reason

ffect level (DNEL/DMEL)	Туре	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>3</sup>	
NEL/DMEL - General population	<u>n</u>		
4'-methylenediphenyl diisocya	nate		
Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term local effects inhalation	0.025 mg/m <sup>3</sup>	
	Acute systemic effects inhalation	0.05 mg/m³	
(p-isocyanatobenzyl)phenyl isc	<u>ocyanate</u>		
Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	0.025 mg/m <sup>3</sup>	
	Acute systemic effects inhalation	0.05 mg/m³	
	Long-term local effects inhalation	0.025 mg/m <sup>3</sup>	
	Acute local effects inhalation	0.05 mg/m³	
	Acute systemic effects dermal	25 mg/kg bw/day	
	Acute local effects dermal	17.2 mg/cm <sup>3</sup>	
	Acute systemic effects oral	20 mg/kg bw/day	
NEC			
4'-methylenediphenyl diisocya	nate		
Compartments	Value	Remark	
	Value 1 mg/l	Remark	
Compartments		Remark	

	Aqua (intermittent releases)	10 118/1	
	STP	1 mg/l	
	Soil	1 mg/kg soil dw	
0-	(p-isocyanatobenzyl)phenyl isocyanate		
	Compartments	Value	Remark
	Fresh water	1 mg/l	
	Marine water	0.1 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.

#### 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. 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. Keep container tightly closed. Do not eat, drink or smoke during work.

#### a) Respiratory protection:

Insufficient ventilation: wear respiratory protection.

### b) Hand protection:

Gloves.

- materials (good resistance)

# Polyethylene.

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	Colourless	

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Revision number: 0401

Particle size	No data available
Explosion limits	No data available
Flammability	Non-flammable
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	> 165 °C
Evaporation rate	No data available
Relative vapour density	>2
Vapour pressure	No data available
Solubility	water ; insoluble
Relative density	1.1
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
рН	No data available

## 9.2. Other information

Absolute density

1146 kg/m³

# 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.

# 10.5. Incompatible materials

(strong) acids, (strong) bases, alcohols, amines, water/moisture.

# 10.6. Hazardous decomposition products

On burning: release of toxic and corrosive gases/vapours (nitrous vapours, carbon monoxide - carbon dioxide). Reacts slowly with water (moisture): release of carbon dioxide.

# SECTION 11: Toxicological information

# 11.1. Information on toxicological effects

11.1.1 Test results

### Acute toxicity

#### Structan Express

No (test)data on the mixture available

# 4,4'-methylenediphenyl diisocyanate

Route of exposure	Parameter	Method	Value	Exposure time		Value determination	Remark
Oral		Equivalent to OECD 401	> 7616 mg/kg		Rat (female)	Read-across	
Dermal		Equivalent to OECD 402	> 9400 mg/kg bw	24 h	Rabbit (male/female)	Read-across	
Dermal	Percutaneo us absorption rate	EPA OPPTS 870.7600	0.9 %	8 h	Rat (male)	Experimental value	
Inhalation (aerosol)		Equivalent to OECD 403	0.49 mg/l air	4 h	Rat (male/female)	Read-across	
			category 4			Annex VI	

Reason for revision: 15

Publication date: 2003-01-30 Date of revision: 2016-02-19

Revision number: 0401

(p-isocyanatobenzy Route of exposu		lethod	Value	Exposure time	Species	Value	Remark
					•	determination	
Oral		Other	> 2000 mg/kg bw		Rat (male/female)	Read-across	
Dermal		quivalent to OECD	> 9400 mg/kg bw		Rabbit	Read-across	
Inhalation (aeros		02 DECD 403	387 mg/m³ air		(male/female) Rat (male)	Experimental value	
Inhalation (aeros	,	DECD 403	645 mg/m <sup>3</sup> air		Rat (female)	Experimental value	
omatic polyisocyan	,	200 403		411	nat (Ternale)	Experimental value	
Route of exposu		/lethod	Value	Exposure time	Species	Value	Remark
						determination	
Inhalation			category 4			Literature study	
assification is based	I on the relevant in	igredients					
<b>iclusion</b> armful if inhaled.							
ot classified as acut	e toxic if swallowe	d					
ot classified as acut							
on/irritation							
tan Express o (test)data on the	mixture available						
4'-methylenediphe							
Route of exposure		Method	Exposure time	Time point	Species	Value	Remark
insure of exposure		lititud	Enposure time	nino point	spoolos	determination	Norman
Eye	Slightly irritating				Rabbit	Experimental valu	e
Éye	Irritating				Human	Weight of evidence	e
Skin	Irritating	OECD 404	4 h	24; 48; 72 hours	Rabbit	Read-across	
Skin	Irritating				Human	Weight of evidence	e
Inhalation	Irritating				Human	Weight of evidence	e
(p-isocyanatobenzy	<u>/l)phenyl isocyanat</u>	<u>.e</u>					
Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Irritating				Human	Weight of evidence	e
Eye	Not irritating	OECD 405	24 h	24; 48; 72 hours	Rabbit	Read-across	
Skin	Irritating	OECD 404	4 h	24; 48; 72 hours	Rabbit	Read-across	
Skin	Irritating				Human	Weight of evidence	
Inhalation	Irritating				Human	Weight of evidence	e
omatic polyisocyan			Fundation Aligned	Times waint	Creation	Malua	Demont
Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Irritating; catego	rv				Literature study	
	2						
Skin	Irritating; catego	ry				Literature study	
	2						
Inhalation	Irritating; STOT S	E				Literature study	1
	cat.3				1		1
assification is based	I on the relevant in	igredients					
<u>nclusion</u>							
auses skin irritation auses serious eye ir							
lay cause respirator							
		osure: classified as i	irritant to recoirato	av organs			
come target organ	toxicity, single exp	osure. classified as		y organs			
	sation						
atory or skin sensiti							
-							
tan Express	mixture available						
tan Express o (test)data on the							
tan Express o (test)data on the 4'-methylenediphe	nyl diisocyanate	Mothod	Evpours	Observation time	Species		Domort
tan Express o (test)data on the	nyl diisocyanate	Method	Exposure time	Observation time	Species	Value determinatior	Remark
tan Express o (test)data on the 4'-methylenediphe Route of exposure	nyl diisocyanate Result		Exposure time	Observation time point	·		Remark
tan Express o (test)data on the 4'-methylenediphe Route of exposure Skin	nyl diisocyanate Result Sensitizing	Method OECD 429	Exposure time		Mouse	Experimental value	Remark
tan Express o (test)data on the 4'-methylenediphe Route of exposure	nyl diisocyanate Result		Exposure time		·		Remark

Reason for revision: 15

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	Equivalent to OECD 406	12 h	24; 48 hours	Guinea pig (male/female)	Read-across	
Skin	Sensitizing					Annex VI	
Inhalation	Sensitizing	Other			Guinea pig (female)	Read-across	
Inhalation	Sensitizing				Human (male)	Weight of evidence	
omatic polyisocyan	ate prepolymer		-				
Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
	Sensitizing; category 1					Literature study	
	Sensitizing; category 1					Literature study	

Classification is based on the relevant ingredients

### **Conclusion**

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

# Specific target organ toxicity

### Structan Express

No (test)data on the mixture available

# 4,4'-methylenediphenyl diisocyanate

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time		Value determination
Inhalation (aerosol)	LOAEC	Other	0.23 mg/m³ air	Lungs	Lung tissue	≤ 104 weeks	Rat (female)	Experimental
					affection/degen	(17h/day, 5		value
					eration	days/week)		

# o-(p-isocyanatobenzyl)phenyl isocyanate

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time		Value determination
Inhalation (aerosol)		Equivalent to OECD 453	- 0,	Respiratory tract		1 (-) ( ) ))	Rat (male/female)	Read-across
Inhalation (aerosol)		Equivalent to OECD 453	1 mg/m³ air	Respiratory tract		1 (-) ( ) ) )	Rat (male/female)	Read-across

#### aromatic polyisocyanate prepolymer

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Inhalation			STOT RE cat.2					Literature study

Classification is based on the relevant ingredients

#### **Conclusion**

May cause damage to organs through prolonged or repeated exposure if inhaled.

Not classified as sub-chronically toxic in contact with skin

Not classified as sub-chronically toxic if swallowed

#### Mutagenicity (in vitro)

# Structan Express

No (test)data on the mixture available

Result	Method	Test substrate	Effect	Value determination
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value
-isocyanatobenzyl)phenyl isoc	zyanate			· · · · · · · · · · · · · · · · · · ·
Result	Method	Test substrate	Effect	Value determination
Negative with metabolic activation, negative without metabolic activation	OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value

## Mutagenicity (in vivo)

#### Structan Express

No (test)data on the mixture available

#### 4,4'-methylenediphenyl diisocyanate

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

Reason for revision: 15

	topenzynphen	<u>/l isocyanate</u>												
Result			Method			osure tim		Test	substrate		Organ		Va	alue determinati
Negative			OECD 47	'4		eks (1h/o week)	lay, 1	Rat	(male)				Re	ad-across
ogenicity														
<u>ctan Express</u> Route of exposure	Parameter	Method	Val	ue	Exj	posure tii	me Sp	ecie	es	Effect	(	Organ		Value determination
nhalation			cat	egory 2										Literature
	nediphenyl diiso	ocyanate		-0-7										
Route of exposure	Paramete	r Method		Value		Exposur		1.	ecies	Effe	ect	Org	jan	Value determinatio
Inhalatior (aerosol)		Other		0.7 mg/m³	air	104 wee 5 days/v	eks (17h/day veek)	/, Ra	it (female)	No effe	carcinogeni ect	С		Experimental value
	tobenzyl)pheny													
Route of exposure				Value		Exposur			ecies	Effe		Org		Value determinatio
Inhalatior (aerosol)		Equivale OECD 45		1 mg/m³ ai		days/we		Ra (m	it nale/female)		effect	trac		Read-across
Inhalatior (aerosol)	n LOAEC	Equivale OECD 45		6 mg/m³ ai	ir	2 year(s days/we	) (6h/day, 5 eek)	Ra (m	it nale/female)	Tur	nor formatio	on Res trac	piratory ct	Read-across
· · /	5													
,4 -metnyler		Parameter	Meth	bod	Value		Exposure t	ime	Species	l	Effect	0	rgan	Value
		. ur ur ur no tor							opooloo				. ga	determinatio
Developn	nental toxicity	NOAEL	OECI	0 414	3 mg/ı	m³ air	10 days (6h/day)		Rat (female	:) (	No effect			Experimenta value
		LOAEL	OECI		9 mg/ı		10 days (6h/day)		Rat (female	,	Embryotoxic	ity		Experimenta value
Maternal	•	NOAEL	OECI		4 mg/l bw/da	•	10 day(s)		Rat (female	:) (	No effect			Read-across
Effects or														Data waiving
-(p-isocyana	tobenzyl)pheny	Parameter	Meth	nod	Value		Exposure t	ime	Species		Effect	0	rgan	Value determinatio
Developn	nental toxicity	NOAEL	OECI	0 414	4 mg/ı	m³ air	10 days	_	Rat		No adverse			Read-across
							(6h/day)			19	systemic eff	ects		

Classification is based on the relevant ingredients

#### Conclusion CMR

Suspected of causing cancer.

Not classified for mutagenic or genotoxic toxicity

Not classified for reprotoxic or developmental toxicity

### Toxicity other effects

#### Structan Express

No (test)data on the mixture available

Parameter	Method	Value	Organ	Effect	Exposure time		Value determination
LD50		100 mg/kg bw				Mouse (male)	Experimental value

(6h/day)

## Chronic effects from short and long-term exposure

Structan Express

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Itching. Skin rash/inflammation. Feeling of weakness. Coughing. Possible inflammation of the respiratory tract. Respiratory difficulties.

# SECTION 12: Ecological information

## 12.1. Toxicity

Structan Express

No (test)data on the mixture available

Reason for revision: 15

systemic effects

	Parameter	Method	Value	Duration	Species	Test desig	n Fresh/salt water	Value determinatio
Acute toxicity fishes	LC50	OECD 203	> 1000 mg/	ʻl 96 h	Danio rerio	Static syste	em Fresh water	Read-across; Nominal concentration
Acute toxicity invertebrates	EC50	OECD 202	129.7 mg/l	24 h	Daphnia magna	,	em Fresh water	Read-across; Locomotor effect
Toxicity algae and other aquatic plants	EC50	OECD 201	> 1640 mg/	1 72 h	Desmodesmus subspicatus	Static syste	em Fresh water	Read-across; Growt rate
Long-term toxicity aquatic invertebrates	NOEC	OECD 211	≥ 10 mg/l	21 day(s)	Daphnia magna	Semi-statio system	Fresh water	Read-across; Reproduction
Toxicity aquatic micro- organisms	EC50	OECD 209	> 100 mg/l	3 h	Activated sludge	Static syste	em Fresh water	Read-across; Nominal concentration
(p-isocyanatobenzyl)phenyl isoc	vanate							
	Parameter	Method	Value	Duration	Species	Test desig	n Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	> 1000 mg/	ʻl 96 h	Brachydanio rerio	Static syste	em Fresh water	Read-across; Nominal concentration
Acute toxicity invertebrates	EC50	OECD 202	> 1000 mg/	ʻl 24 h	Daphnia magna	Static syste	em Fresh water	Read-across; Nominal concentration
Toxicity algae and other aquatic plants	EC50	OECD 201	> 1640 mg/	1 72 h	Scenedesmus subspicatus	Static syste	em Fresh water	Read-across; GLP
Long-term toxicity aquatic invertebrates	NOEC	OECD 211	≥ 10 mg/l	21 day(s)	Daphnia magna	Semi-statio system	Fresh water	Read-across; Nominal concentration
Toxicity aquatic micro- organisms	EC50	OECD 209	> 100 mg/l	3 h	Activated sludge	Static syste	em Fresh water	Read-across; GLP
	Parameter	Method		/alue	Duration	Spe	cies	Value determination
Toxicity soil macro-organisms	NOEC	OECD 20	7	≥ 1000 mg/kg sc	oil dw 14 day(s)	Eise	enia fetida	Read-across
Toxicity terrestrial plants	NOEC	Equivale 208		≥ 1000 mg/kg sc		Ave	ena sativa	Read-across
	NOEC	Equivale 208	nt to OECD	≥ 1000 mg/kg sc	oil dw 14 day(s)	Lac	tuca sativa	Read-across

Judgement is based on the relevant ingredients

### **Conclusion**

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

### 12.2. Persistence and degradability

#### 4,4'-methylenediphenyl diisocyanate Biodegradation water

Method	Value	Duration	Value determination
OECD 302C: Inherent Biodegradability:	0 %	28 day(s)	Read-across
Modified MITI Test (II) Phototransformation air (DT50 air)			
Method	Value	Conc. OH-radicals	Value determination
AOPWIN v1.92	0.92 day(s)		QSAR
Half-life water (t1/2 water)		·	·
Method	Value	Primary degradation/mineralisation	Value determination
	20 h		Read-across
(D-Isocvanatopenzvi)phenvi isocvanate			
(p-isocyanatobenzyl)phenyl isocyanate Biodegradation water Method	Value	Duration	Value determination
Biodegradation water	Value 0 %	Duration 28 day(s)	Value determination Read-across
Biodegradation water Method OECD 302C: Inherent Biodegradability:			
Biodegradation water Method OECD 302C: Inherent Biodegradability: Modified MITI Test (II)			
Biodegradation water Method OECD 302C: Inherent Biodegradability: Modified MITI Test (II) Phototransformation air (DT50 air)	0%	28 day(s)	Read-across
Biodegradation water Method OECD 302C: Inherent Biodegradability: Modified MITI Test (II) Phototransformation air (DT50 air) Method	0 % Value	28 day(s) Conc. OH-radicals	Read-across Value determination
Biodegradation water Method OECD 302C: Inherent Biodegradability: Modified MITI Test (II) Phototransformation air (DT50 air) Method AOPWIN v1.92	0 % Value	28 day(s) Conc. OH-radicals	Read-across Value determination

## **Conclusion**

Reason for revision: 15

Contains non readily biodegradable component(s)

### 12.3. Bioaccumulative potential

### <u>Stru</u>

ethod	Remark		Value	Ten	nperature	Value	determination
	Not app	licable (mixture)					
1'-methylenedinl	henyl diisocyanate						
<u>3CF fishes</u>	nenyi ansocyanate						
Parameter	Method	Value	Duration	Species			Value determina
BCF	OECD 305	92 - 200	4 week(s)	Cyprinus	carpio		Experimental va
og Kow	·		·				-
Method	Rem	ark	Value		Temperature	Va	alue determinatio
			5.22			Es	timated value
OECD 117			5.22 4.51		22 °C	-	timated value perimental value
	nzyl)phenyl isocyana	te	-		22 °C	-	
	nzyl)phenyl isocyana	te	-		22 °C	-	
p-isocyanatober	nzyl)phenyl isocyana Method	te Value	-	Species	22 °C	-	perimental value
(p-isocyanatober BCF fishes			4.51			-	perimental value
(p-isocyanatober 3CF fishes Parameter	Method	Value	4.51 Duration	Species		-	perimental value
(p-isocyanatober BCF fishes Parameter BCF	Method	<b>Value</b> 92 - 200	4.51 Duration	Species Cyprinus		Ex	perimental value Value determina Read-across
(p-isocyanatober 3CF fishes Parameter BCF og Kow	Method OECD 305	<b>Value</b> 92 - 200	4.51 Duration 28 day(s)	Species Cyprinus	carpio	Ex Va	perimental value
p-isocyanatober 3CF fishes Parameter BCF .og Kow Method OECD 117	Method OECD 305	<b>Value</b> 92 - 200	4.51 Duration 28 day(s) Value	Species Cyprinus	carpio Temperature	Ex Va	perimental value Value determina Read-across alue determinatio
p-isocyanatober 3CF fishes Parameter BCF .og Kow Method OECD 117	Method OECD 305 Rem	<b>Value</b> 92 - 200	4.51 Duration 28 day(s) Value	Species Cyprinus	carpio Temperature	Ex Va	perimental value Value determin Read-across alue determinatio
p-isocyanatober 3CF fishes Parameter BCF .og Kow Method OECD 117 comatic polyisocy	Method OECD 305 Rem	Value 92 - 200 ark	4.51 Duration 28 day(s) Value	Species Cyprinus	carpio Temperature	Ex Va Cc	perimental value Value determin Read-across alue determinatio

4,4'-methylenediphenyl diisocyanate

#### Volatility (Henry's Law constant H)

Value	Method	Temperature	Remark	Value determination
8.95E-7 atm m <sup>3</sup> /mol		25 °C		Estimated value

#### **Conclusion**

No (test)data on mobility of the components available

#### 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

### Structan Express

Global warming potential (GWP)

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

Ozone-depleting potential (ODP)

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

# 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

Hazardous waste according to Regulation (EU) No 1357/2014.

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

08 04 09\* (wastes from MFSU of adhesives and sealants (including waterproofing products): waste adhesives and sealants containing organic solvents or other hazardous substances). Depending on branch of industry and production process, also other waste codes may be applicable.

13.1.2 Disposal methods

Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber 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. Do not discharge into drains or the environment.

#### 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).

Reason for revision: 15

Publication date: 2003-01-30 Date of revision: 2016-02-19

Revision number: 0401

# SECTION 14: Transport information

# Road (ADR)

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         14.6. Special precautions for user         Special provisions         Limited quantities         14.1. UN number	ot 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         14.6. Special precautions for user         Special provisions         Limited quantities         ail (RID)         14.1. UN number         Transport         Nu         14.2. UN proper shipping name         14.3. Transport hazard class(es)         Hazard identification number         Class	
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         14.6. Special precautions for user         Special provisions         Limited quantities         2ail (RID)         14.1. UN number         Transport         Nu         14.2. UN proper shipping name         14.3. Transport hazard class(es)         Hazard identification number         Class	
Hazard identification number         Class         Classification code         14.4. Packing group         Packing group         Labels         14.5. Environmental hazards         Environmentally hazardous substance mark         14.6. Special precautions for user         Special provisions         Limited quantities         2ail (RID)         14.1. UN number         Transport         Nu         14.2. UN proper shipping name         14.3. Transport hazard class(es)         Hazard identification number         Class	
Class       Classification code         14.4. Packing group       14.4. Packing group         Packing group       Labels         14.5. Environmental hazards       14.5. Environmental hazards         Environmentally hazardous substance mark       not         14.6. Special precautions for user       Special provisions         Limited quantities       14.1. UN number         Transport       Not         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         Invironmentally hazardous substance mark         Packing group         Labels         14.5. Environmental hazards         Environmentally hazardous substance mark         Invironmentally hazardous substance mark         Invironmentally hazardous substance mark         Itabels         14.6. Special precautions for user         Special provisions         Limited quantities         Imited quantities         Packing group         14.1. UN number         Transport         Invisor         Invisor <td></td>	
14.4. Packing group         Packing group         Labels         14.5. Environmental hazards         Environmentally hazardous substance mark         14.6. Special precautions for user         Special provisions         Limited quantities         2ail (RID)         14.1. UN number         Transport         Nu         14.2. UN proper shipping name         14.3. Transport hazard class(es)         Hazard identification number         Class	
Packing group       Labels         14.5. Environmental hazards       Environmentally hazardous substance mark         14.6. Special precautions for user       Special provisions         Limited quantities       Limited quantities         2ail (RID)       14.1. UN number         Transport       Nu         14.2. UN proper shipping name       14.3. Transport hazard class(es)         Hazard identification number       Class	
Labels       14.5. Environmental hazards         Environmentally hazardous substance mark       not         14.6. Special precautions for user       Special provisions         Limited quantities       Limited quantities         2ail (RID)       14.1. UN number         Transport       Not         14.2. UN proper shipping name       14.3. Transport hazard class(es)         Hazard identification number       Class	
14.5. Environmental hazards         Environmentally hazardous substance mark         14.6. Special precautions for user         Special provisions         Limited quantities         2ail (RID)         14.1. UN number         Transport         Nu         14.2. UN proper shipping name         14.3. Transport hazard class(es)         Hazard identification number         Class	
Environmentally hazardous substance mark not 14.6. Special precautions for user Special provisions Limited quantities ail (RID) 14.1. UN number Transport Not 14.2. UN proper shipping name 14.3. Transport hazard class(es) Hazard identification number Class	
14.6. Special precautions for user         Special provisions         Limited quantities         ail (RID)         14.1. UN number         Transport         No         14.2. UN proper shipping name         14.3. Transport hazard class(es)         Hazard identification number         Class	
14.6. Special precautions for user         Special provisions         Limited quantities         ail (RID)         14.1. UN number         Transport         No         14.2. UN proper shipping name         14.3. Transport hazard class(es)         Hazard identification number         Class	
Special provisions         Limited quantities         ail (RID)         14.1. UN number         Transport         No         14.2. UN proper shipping name         14.3. Transport hazard class(es)         Hazard identification number         Class	אל subject
Limited quantities Limited quantities Limited quantities 14.1. UN number Transport 14.2. UN proper shipping name 14.3. Transport hazard class(es) Hazard identification number Class	ot subject
ail (RID)         14.1. UN number         Transport         No         14.2. UN proper shipping name         14.3. Transport hazard class(es)         Hazard identification number         Class	pt subject
14.1. UN number         Transport       Nu         14.2. UN proper shipping name         14.3. Transport hazard class(es)         Hazard identification number         Class	ot subject
14.1. UN number         Transport       Nu         14.2. UN proper shipping name         14.3. Transport hazard class(es)         Hazard identification number         Class	ot subject
Transport     N       14.2. UN proper shipping name     14.3. Transport hazard class(es)       Hazard identification number     Class	ot subject
14.2. UN proper shipping name 14.3. Transport hazard class(es) Hazard identification number Class	ot subject
14.3. Transport hazard class(es) Hazard identification number Class	
Hazard identification number Class	
Class	
14.4. Packing group	
Packing group	
Labels	
14.5. Environmental hazards	
Environmentally hazardous substance mark	)
14.6. Special precautions for user	
Special provisions	
Limited quantities	
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	
ea (IMDG/IMSBC)	
14.1. UN number	
	ot subject
14.2. UN proper shipping name	
14.3. Transport hazard class(es)	
Class	
14.4. Packing group	
Packing group	
Labels	
14.5. Environmental hazards	
Marine pollutant -	
Environmentally hazardous substance mark no	)
14.6. Special precautions for user	
Special provisions	
l imited quantities	
Limited quantities	
Limited quantities 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code	Publication date: 2003-01-30
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code	
	Date of revision: 2016-02-19
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code	Date of revision: 2016-02-19
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code	Date of revision: 2016-02-19

Annex II of MARPOL 73/78

# Air (ICAO-TI/IATA-DGR)

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	
14.5. Environmental hazards	
Environmentally hazardous substance mark	no
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
0 %	
0 g/l	

**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
aromatic polyisocyanate prepolymer	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 5.1. (d) hazard class 5.1.	<ol> <li>Shall not be used in:         <ul> <li>ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,</li> <li>tricks and jokes,</li> <li>games for one or more participants, or any article intended to be used as such, even wit 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:</li></ul></li></ol>
4,4'-methylenediphenyl diisocyanate o-(p-isocyanatobenzyl)phenyl isocyanate	Methylenediphenyl diisocyanate (MDI) including the following specific isomers: 4,4'- Methylenediphenyl diisocyanate; 2,4'- Methylenediphenyl diisocyanate; 2,2'- Methylenediphenyl diisocyanate	<ol> <li>Shall not be placed on the market after 27 December 2010, as a constituent of mixtures 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:         <ul> <li>(a) contains protective gloves which comply with the requirements of Council Directive 89/686/EEC;</li> <li>(b) is marked visibly, legibly and indelibly as follows, and without prejudice to other Community legislation concerning the classification, packaging and labelling of substances</li> </ul> </li> </ol>
		and mixtures: "— Persons already sensitised to diisocyanates may develop allergic reactions when using this product.
son for revision: 15		"- Persons already sensitised to diisocyanates may develop allergic reactions when using

		Stru	ctan Exp	ress	
			dermal co — This pro mask with	s suffering from asthma, eczema or skin problen ntact, with this product. oduct should not be used under conditions of po an appropriate gas filter (i.e. type A1 according derogation, paragraph 1(a) shall not apply to ho	por ventilation unless a protective to standard EN 14387) is used.2.
	ional legislation The Netherlan	<u>ıds</u>			
2	Structan Express Waste identification (the	LWCA (the Netherlands): KGA	category 03		
	Netherlands) Waterbezwaarlijkheid	10			
Nati	ional legislation Germany	10			
	Structan Express				
	WGK	1; Classification water pollutin Stoffe (VwVwS) of 27 July 200		ponents in compliance with Verwaltungsv	orschrift wassergefährdender
4	4,4'-methylenediphenyl diisocy MAK - Krebserzeugend	anate A			
	Kategorie				
	Schwangerschaft Gruppe MAK 8-Stunden-Mittelwert	C Diphenylmethan-4,4'-diisocya	anat (MDI) (einatemb	are Fraktion); 0.05 mg/m <sup>3</sup> ; gemessen als	einatembare Fraktion (vgl.
	mg/m³ TA-Luft	Abschn. Vd) S. 191) 5.2.5; I			
		5.2.5			
<u>(</u>	<u>o-(p-isocyanatobenzyl)phenyl is</u> TA-Luft	socyanate 5.2.5; I			
		5.2.5			
<u>.</u>	ional legislation France Structan Express No data available				
4	4,4'-methylenediphenyl diisocy Catégorie cancérogène	C2			
	ional legislation Belgium <u>Structan Express</u> No data available				
	<u>er relevant data</u> S <u>tructan Express</u> No data available				
4	4,4'-methylenediphenyl diisocy IARC - classification		isocyanate and polyn	neric 4,4'-methylenediphenyl diisocyanate	2
	Chemical safety assessm No chemical safety assessment	nent			
SECTIO	N 16: Other inform	mation			
Full	text of any H-statements refer H315 Causes skin irritation.	rred to under headings 2 and 3	:		
I	H317 May cause an allergic ski H319 Causes serious eye irrita				
	H332 Harmful if inhaled. H334 May cause allergy or ast	hma symptoms or breathing di	fficulties if inhaled.		
	H335 May cause respiratory ir H351 Suspected of causing car				
I	H373 May cause damage to or	rgans through prolonged or rep			
	(*) = INTERNAL CLASSIFICATION	rgans (lungs) through prolonge N BY BIG	d or repeated exposu	re ir innaled.	
		oaccumulative and toxic substa		- in France)	
		abelling and packaging (Globall	y Harmonised System	h in Europe)	
· · ·	cific concentration limits CLP 4,4'-methylenediphenyl diisocy	vanate	C≥5%	Eye Irrit. 2; H319	CLP Annex VI (ATP 1)
			C≥5% C≥0.1%	Skin Irrit. 2; H315 Resp. Sens. 1; H334	CLP Annex VI (ATP 1) CLP Annex VI (ATP 1)
			C≥5%	STOT SE 3; H335	CLP Annex VI (ATP 1)
(	o-(p-isocyanatobenzyl)phenyl is	socyanate	C≥5% C≥5%	Eye Irrit. 2; H319	CLP Annex VI (ATP 1) CLP Annex VI (ATP 1)
			C≥5% C≥0.1%	Skin Irrit. 2; H315 Resp. Sens. 1; H334	CLP Annex VI (ATP 1) CLP Annex VI (ATP 1)
			C≥5%	STOT SE 3; H335	CLP Annex VI (ATP 1)
Reason for	revision: 15			Publication date: 2003-01-30 Date of revision: 2016-02-19	
Revision nu	umber: 0401			Product number: 38899	14/15

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