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POLYURETHANE SEALANT (BLA)

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

#### 1.1. Product identifier

865242 POLYURETHANE SEALANT (BLA)

#### **Contains:**

4,4'- methylenediphenyl diisocyanate p-Toluenesulphonyl isocyanate

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

Intended use:

1-component-polyurethane adhesive

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

Quest Consumables Ltd Stock House ,Seymour Road Nuneaton, Warwickshire CV11 4LB

Phone: +44 2476322126 Fax-no.: +44 2476322117 sales@questconsumables.com

#### 1.4. Emergency telephone number

24 Hours Emergency Tel: +44 (0)1442 278497

#### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

#### Classification (CLP):

Not flammable according burning rate test N.1 UN Manual of Tests and Criteria Respiratory sensitizer

Category 1

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

#### 2.2. Label elements

#### Label elements (CLP):

Hazard pictogram:



Signal word: Danger

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

**Supplemental information** Contains Hexane, 1,6-diisocyanato-, homopolymer, V=7000-11000 mPas/23; Dibutyltin

dilaurate. May produce an allergic reaction.

**Precautionary statement:** 

Prevention

P261 Avoid breathing dust.

**Precautionary statement:** 

Response

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

#### 2.3. Other hazards

Persons suffering from allergic reactions to isocyanates should avoid contact with the product.

# **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

#### General chemical description:

1-Component PU adhesive

#### Base substances of preparation:

Polyurethane prepolymer with free 4,4'-methylenediphenyl diisocyanate (MDI)

# Declaration of the ingredients according to CLP (EC) No 1272/2008:

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
Isoparaffinic Hydrocarbon 90622-57-4	292-459-0 01-2119472146-39	5- < 10 %	Flam. Liq. 3 H226 Asp. Tox. 1; Oral H304
Xylene - mixture of isomeres 1330-20-7	215-535-7 01-2119488216-32	1- < 5 %	Asp. Tox. 1 H304 Acute Tox. 4; Inhalation H332 Acute Tox. 4; Dermal H312 Skin Irrit. 2 H315 Flam. Liq. 3 H226 Eye Irrit. 2 H319 STOT SE 3 H335 STOT RE 2 H373
Ethylbenzene 100-41-4	202-849-4 01-2119489370-35	1- < 3 %	Flam. Liq. 2
4,4'- methylenediphenyl diisocyanate 101-68-8	202-966-0 01-2119457014-47	0,1-< 1 %	Carc. 2 H351 Acute Tox. 4; Inhalation 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
Hexane, 1,6-diisocyanato-, homopolymer, V=7000-11000 mPas/23 28182-81-2	500-060-2	0,1-< 1 %	Skin Sens. 1 H317
p-Toluenesulphonyl isocyanate 4083-64-1	223-810-8 01-2119980050-47	0,1-< 0,25 %	Eye Irrit. 2 H319 STOT SE 3 H335 Skin Irrit. 2 H315 Resp. Sens. 1 H334
Dibutyltin dilaurate 77-58-7	201-039-8 01-2119496068-27	0,1-< 0,25 %	Aquatic Acute 1 H400 Aquatic Chronic 1 H410 Skin Corr. 1C H314 Skin Sens. 1 H317 Muta. 2 H341 Repr. 1B H360 STOT SE 1

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	H370 STOT RE 1; Oral H372 Acute Tox. 4	
	H302	

For full text of the H - statements and other abbreviations see section 16 "Other information". Substances without classification may have community workplace exposure limits available.

### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### Inhalation:

Fresh air, oxygen supply, warmth; seek specialist medical attention.

Delayed effects possible after inhalation.

#### Skin contact:

Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing. If necessary, see a dermatologist.

#### Eye contact:

Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

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

May cause sensitization by inhalation.

An allergic reaction cannot be excluded after repeated skin contact.

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

See section: Description of first aid measures

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

#### Suitable extinguishing media:

All common extinguishing agents are suitable.

#### Extinguishing media which must not be used for safety reasons:

Water jet (solvent-containing product).

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

In case of fire toxic gases can be released.

#### **5.3.** Advice for firefighters

Wear protective equipment.

Wear self-contained breathing apparatus.

#### **SECTION 6: Accidental release measures**

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

Wear protective equipment.

Avoid contact with skin and eyes.

Keep unprotected persons away.

#### 6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

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

Remove mechanically.

Dispose of contaminated material as waste according to Section 13.

#### 6.4. Reference to other sections

See advice in section 8

# **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Hygiene measures:

Do not eat, drink or smoke while working.

Wash hands before work breaks and after finishing work.

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

Ensure good ventilation/extraction. Store in a dry place.

Container must be made airtight after use.

Storage at 15 to 25°C is recommended.

### 7.3. Specific end use(s)

1-component-polyurethane adhesive

# **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters

# **Occupational Exposure Limits**

Valid for

Great Britain

Ingredient [Regulated substance]	ppm	mg/m³	Value type	Short term exposure limit category / Remarks	Regulatory list
Polyvinyl chloride 9002-86-2 [POLYVINYL CHLORIDE, INHALABLE DUST]		10	Time Weighted Average (TWA):		EH40 WEL
Polyvinyl chloride 9002-86-2 [POLYVINYL CHLORIDE, RESPIRABLE DUST]		4	Time Weighted Average (TWA):		EH40 WEL
Calcium carbonate 471-34-1 [CALCIUM CARBONATE, INHALABLE DUST]		10	Time Weighted Average (TWA):		EH40 WEL
Calcium carbonate 471-34-1 CALCIUM CARBONATE, RESPIRABLE DUST]		4	Time Weighted Average (TWA):		EH40 WEL
Calcium carbonate 471-34-1 [LIMESTONE, RESPIRABLE MARBLE, RESPIRABLE]		4	Time Weighted Average (TWA):		EH40 WEL
Calcium carbonate 471-34-1 [LIMESTONE, TOTAL INHALABLE MARBLE, TOTAL INHALABLE]		10	Time Weighted Average (TWA):		EH40 WEL
Di-"isononyl" phthalate 28553-12-0 DIISONONYL PHTHALATE]		5	Time Weighted Average (TWA):		EH40 WEL
Xylene 1330-20-7 XYLENE, O-, M-, P- OR MIXED SOMERS]	50	220	Time Weighted Average (TWA):		EH40 WEL
Xylene 1330-20-7 [XYLENE, O-, M-, P- OR MIXED [SOMERS]	100	441	Short Term Exposure Limit (STEL):		EH40 WEL
Xylene 1330-20-7 XYLENE, O-, M-, P- OR MIXED SOMERS]			Skin designation:	Can be absorbed through the skin.	EH40 WEL
Xylene 1330-20-7 XYLENE, MIXED ISOMERS, PURE]	50	221	Time Weighted Average (TWA):	Indicative	ECTLV
Xylene 1330-20-7 XYLENE, MIXED ISOMERS, PURE]	100	442	Short Term Exposure Limit (STEL):	Indicative	ECTLV
Silicon dioxide 112945-52-5 SILICA, AMORPHOUS, INHALABLE DUST]		6	Time Weighted Average (TWA):		EH40 WEL
Silicon dioxide 112945-52-5 SILICA, AMORPHOUS, RESPIRABLE DUST]		2,4	Time Weighted Average (TWA):		EH40 WEL
Ethylbenzene 100-41-4 ETHYLBENZENE]			Skin designation:	Can be absorbed through the skin.	ECTLV
Ethylbenzene 100-41-4 ETHYLBENZENE]	125	552	Short Term Exposure Limit (STEL):		EH40 WEL
Ethylbenzene 100-41-4 [ETHYLBENZENE]			Skin designation:	Can be absorbed through the skin.	EH40 WEL

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Ethylbenzene	100	441	Time Weighted Average		EH40 WEL
100-41-4			(TWA):		
[ETHYLBENZENE]					
Ethylbenzene	100	442	Time Weighted Average	Indicative	ECTLV
100-41-4			(TWA):		
[ETHYLBENZENE]					
Ethylbenzene	200	884	Short Term Exposure	Indicative	ECTLV
100-41-4			Limit (STEL):		
[ETHYLBENZENE]					
4,4'-Methylenediphenyl diisocyanate		0,07	Short Term Exposure		EH40 WEL
101-68-8			Limit (STEL):		
[ISOCYANATES, ALL (AS -NCO)]					
4,4'-Methylenediphenyl diisocyanate		0,02	Time Weighted Average		EH40 WEL
101-68-8			(TWA):		
[ISOCYANATES, ALL (AS -NCO)]					
Dibutyltin dilaurate		0,1	Time Weighted Average		EH40 WEL
77-58-7			(TWA):		
[TIN COMPOUNDS, ORGANIC, EXCEPT					
CYHEXATIN (ISO), (AS SN)]					
Dibutyltin dilaurate		0,2	Short Term Exposure		EH40 WEL
77-58-7			Limit (STEL):		
[TIN COMPOUNDS, ORGANIC, EXCEPT					
CYHEXATIN (ISO), (AS SN)]					
Dibutyltin dilaurate			Skin designation:	Can be absorbed through the	EH40 WEL
77-58-7				skin.	
[TIN COMPOUNDS, ORGANIC, EXCEPT					
CYHEXATIN (ISO), (AS SN)]					

#### **Occupational Exposure Limits**

Valid for Ireland

Ingredient [Regulated substance] Short term exposure limit Regulatory list mg/m<sup>3</sup> Value type ppm category / Remarks Polyvinyl chloride Time Weighted Average IR\_OEL 9002-86-2 (TWA): [POLYVINYL CHLORIDE (PVC), RESPIRABLE DUST Polyvinyl chloride 10 Time Weighted Average IR\_OEL 9002-86-2 (TWA): [POLYVINYL CHLORIDE (PVC), TOTAL INHALABLE DUST] Calcium carbonate 4 Time Weighted Average IR\_OEL 471-34-1 (TWA): [CALCIUM CARBONATE, RESPIRABLE DUST] Time Weighted Average Calcium carbonate 10 IR\_OEL 471-34-1 (TWA): [CALCIUM CARBONATE, TOTAL INHALABLE DUST] Time Weighted Average Di-"isononyl" phthalate 5 IR\_OEL 28553-12-0 (TWA): [DIISONONYL PHTHALATE] 221 Time Weighted Average Indicative OELV IR OEL Xylene 50 1330-20-7 (TWA): [XYLENE, MIXED ISOMERS] Xylene 100 442 Short Term Exposure Indicative OELV IR\_OEL 1330-20-7 Limit (STEL): [XYLENE, MIXED ISOMERS] Can be absorbed through the Skin designation: IR\_OEL Xylene 1330-20-7 skin. [XYLENE, MIXED ISOMERS] Xylene 50 221 Time Weighted Average Indicative ECTLV 1330-20-7 (TWA): [XYLENE, MIXED ISOMERS, PURE] Short Term Exposure 100 442 Indicative ECTLV Xylene 1330-20-7 Limit (STEL): [XYLENE, MIXED ISOMERS, PURE] Silicon dioxide Time Weighted Average IR\_OEL 6 112945-52-5 (TWA): [SILICA, AMORPHOUS, TOTAL INHALABLE DUST] Silicon dioxide IR\_OEL Time Weighted Average 2,4 112945-52-5 (TWA):

[SILICA, AMORPHOUS, RESPIRABLE		1			
DUST]					
Ethylbenzene			Skin designation:	Can be absorbed through the	ECTLV
100-41-4				skin.	
[ETHYLBENZENE]					
Ethylbenzene	100	442	Time Weighted Average	Indicative OELV	IR_OEL
100-41-4			(TWA):		
[ETHYLBENZENE]					
Ethylbenzene	200	884	Short Term Exposure	Indicative OELV	IR_OEL
100-41-4			Limit (STEL):		
[ETHYLBENZENE]					
Ethylbenzene			Skin designation:	Can be absorbed through the	IR_OEL
100-41-4				skin.	
[ETHYLBENZENE]					
Ethylbenzene	100	442	Time Weighted Average	Indicative	ECTLV
100-41-4			(TWA):		
[ETHYLBENZENE]					
Ethylbenzene	200	884	Short Term Exposure	Indicative	ECTLV
100-41-4			Limit (STEL):		
[ETHYLBENZENE]					
4,4'-Methylenediphenyl diisocyanate		0,02	Time Weighted Average		IR_OEL
101-68-8			(TWA):		
[4,4'-METHYLENE-DIPHENYL					
DIISOCYANATE (AS -NCO)]		1			
4,4'-Methylenediphenyl diisocyanate		0,07	Short Term Exposure		IR_OEL
101-68-8			Limit (STEL):		
[4,4'-METHYLENE-DIPHENYL					
DIISOCYANATE (AS -NCO)]					
Dibutyltin dilaurate		0,2	Short Term Exposure	Indicative OELV	IR_OEL
77-58-7			Limit (STEL):		
[TIN ORGANIC COMPOUNDS, (AS SN)]					 
Dibutyltin dilaurate		0,1	Time Weighted Average	Indicative OELV	IR_OEL
77-58-7			(TWA):		
[TIN ORGANIC COMPOUNDS, (AS SN)]					

### **Biological Exposure Indices:**

Ingredient [Regulated substance]	Parameters	Biological specimen	Sampling time	 Basis of biol. exposure index	 Additional Information
Xylene 1330-20-7 [XYLENE O-, M-, P-, OR MIXED ISOMERS]	Methylhippur ic acids	Creatinine in urine	Sampling time: End of shift.	UKEH40BMG V	

#### 8.2. Exposure controls:

Engineering controls:

Use only in well ventilated areas.

#### Respiratory protection:

In case of dust formation, we recommend wearing of appropriate respiratory protection equipment with particle filter P (EN 14387).

This recommendation should be matched to local conditions.

### Hand protection:

Chemical-resistant protective gloves (EN 374). Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374): Isobutylene-isoprene rubber (IIR; >= 0.7 mm thickness) Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): Isobutylene-isoprene rubber (IIR; >= 0.7 mm thickness) This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:

Goggles which can be tightly sealed.

Protective eye equipment should conform to EN166.

Skin protection:

Wear protective equipment.

Protective clothing that covers arms and legs.

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

Use only personal protection that's CE-labelled according to Directive 89/686/EEC (Europe) or to Regulation No. 819 of 19 August 1994 (Norway).

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

### **SECTION 9: Physical and chemical properties**

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

Appearance paste pasty

grey

Insoluble

Odor characteristic

Odour threshold No data available / Not applicable

pH No data available / Not applicable Initial boiling point No data available / Not applicable

Flash point 44 °C (111.2 °F); flash point, Abel; HT-method

Decomposition temperature

No data available / Not applicable
Vapour pressure

No data available / Not applicable

Density 1,2 g/cm<sup>3</sup>

(20 °C (68 °F))

Bulk density
No data available / Not applicable
Viscosity
No data available / Not applicable
Viscosity (kinematic)
No data available / Not applicable
Explosive properties
No data available / Not applicable

Solubility (qualitative)

(20 °C (68 °F); Solvent: Water)

Solidification temperature No data available / Not applicable Melting point No data available / Not applicable No data available / Not applicable Flammability No data available / Not applicable Auto-ignition temperature Explosive limits No data available / Not applicable Partition coefficient: n-octanol/water No data available / Not applicable Evaporation rate No data available / Not applicable Vapor density No data available / Not applicable

Solid content 90 %

Oxidising properties No data available / Not applicable

#### 9.2. Other information

No data available / Not applicable

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Reacts with water: Pressure built up in closed vessel (CO2).

Reaction with water, alcohols, amines.

#### 10.2. Chemical stability

Stable under recommended storage conditions.

#### 10.3. Possibility of hazardous reactions

See section reactivity

#### 10.4. Conditions to avoid

Humidity

#### 10.5. Incompatible materials

See section reactivity

#### 10.6. Hazardous decomposition products

Carbon dioxide is generated under contact with moisture, leading to pressure in the cans. Danger of cans bursting! At higher temperatures isocyanate may be released.

# **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

#### General toxicological information:

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation (EC) No 1272/2008. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following. Persons suffering from allergic reactions to isocyanates should avoid contact with the product.

#### Sensitizing:

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

An allergic reaction cannot be excluded after repeated skin contact.

#### Acute oral toxicity:

Hazardous components	Value	Value	Route of	Exposure	Species	Method
CAS-No.	type		application	time		
Isoparaffinic Hydrocarbon	LD50	> 5.000 mg/kg	oral		rat	
90622-57-4						
Xylene - mixture of	LD50	3.523 mg/kg	oral		rat	Not specified
isomeres						
1330-20-7						
Ethylbenzene	LD50	3.500 mg/kg	oral		rat	
100-41-4						
4,4'- methylenediphenyl	LD50	> 2.000 mg/kg	oral		rat	
diisocyanate						
101-68-8						
Hexane, 1,6-diisocyanato-	LD50	> 5.000 mg/kg	oral		rat	
, homopolymer, V=7000-						
11000 mPas/23						
28182-81-2						
p-Toluenesulphonyl	LD50	2.600 mg/kg	oral			
isocyanate						
4083-64-1	l .					
Dibutyltin dilaurate	Acute	500 mg/kg	oral			Expert judgement
77-58-7	toxicity					
	estimate					
<b>5</b> 7 . 12 . 17	(ATE)	500 2000				
Dibutyltin dilaurate	LD50	500 - 2.000			rat	
77-58-7		mg/kg				

### Acute inhalative toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Xylene - mixture of	LC50	11 mg/l	Vapor.	4 h	rat	
isomeres						
1330-20-7						

### Acute dermal toxicity:

Hazardous components	Value	Value	Route of	Exposure	Species	Method
CAS-No.	type		application	time		
Isoparaffinic Hydrocarbon	LD50	> 3.000 mg/kg	dermal		rabbit	
90622-57-4						
Ethylbenzene	LD50	5.000 mg/kg	dermal		rabbit	
100-41-4						
4,4'- methylenediphenyl	LD50	> 9.400 mg/kg	dermal		rabbit	OECD Guideline 402 (Acute
diisocyanate						Dermal Toxicity)
101-68-8						

### Skin corrosion/irritation:

Hazardous components	Result	Exposure	Species	Method
CAS-No.		time		
Xylene - mixture of isomeres 1330-20-7	moderately irritating		rabbit	
4,4'- methylenediphenyl diisocyanate 101-68-8	irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Dibutyltin dilaurate 77-58-7	corrosive	24 h	rat	

# Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Xylene - mixture of	slightly irritating		rabbit	OECD Guideline 405 (Acute
isomeres				Eye Irritation / Corrosion)
1330-20-7				

# Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
4,4'- methylenediphenyl diisocyanate 101-68-8	sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
4,4'- methylenediphenyl diisocyanate 101-68-8	sensitising	in vivo	guinea pig	

# Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Xylene - mixture of isomeres 1330-20-7	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		
Ethylbenzene 100-41-4	negative	sister chromatid exchange assay in mammalian cells	with and without		
	negative	in vitro mammalian chromosome aberration test	with and without		
	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Ethylbenzene 100-41-4	negative	intraperitoneal		mouse	Micronucleus assay
4,4'- methylenediphenyl diisocyanate 101-68-8	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		EU Method B.13/14 (Mutagenicity)
p-Toluenesulphonyl isocyanate 4083-64-1	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		
	negative	in vitro mammalian chromosome aberration test	with and without		

# Carcinogenicity:

Hazardous components CAS-No.	Result	Species	Sex	Exposure timeFrequenc y of treatment	Route of application	Method
4,4'- methylenediphenyl diisocyanate 101-68-8	carcinogenic	rat	male/female	2 y 6 h/d	inhalation: aerosol	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

### Reproductive toxicity:

Hazardous substances	Result / Classification	Species	Exposure	Species	Method
CAS-No.			time		
p-Toluenesulphonyl	NOAEL $F1 = 300 \text{ mg/kg}$	one-		rat	OECD Guideline 422
isocyanate		generation			(Combined Repeated Dose
4083-64-1		study			Toxicity Study with the
		oral: gavage			Reproduction /
					Developmental Toxicity
					Screening Test)

#### Repeated dose toxicity

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Ethylbenzene 100-41-4		inhalation	4weeks6 hours/day, 5 days/week	mouse	OECD Guideline 412 (Repeated Dose Inhalation Toxicity: 28/14-Day)
4,4'- methylenediphenyl diisocyanate 101-68-8		inhalation: aerosol	main: 2 y; satellite:1 y6 h/d; 5 d/w	rat	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
Dibutyltin dilaurate 77-58-7	NOAEL=40 ppm	oral: feed	90 daysdaily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

# **SECTION 12: Ecological information**

#### General ecological information:

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation (EC) No 1272/2008. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following. Do not empty into drains, soil or bodies of water.

# 12.1. Toxicity

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Isoparaffinic Hydrocarbon 90622-57-4	LC50	> 100 mg/l	Fish	96 h		OECD Guideline 203 (Fish, Acute Toxicity Test)
Isoparaffinic Hydrocarbon 90622-57-4	EC50	> 100 mg/l	Daphnia	96 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute
						Immobilisation Test)
Isoparaffinic Hydrocarbon 90622-57-4	NOEC	> 1 mg/l	chronic Daphnia	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
Xylene - mixture of isomeres 1330-20-7	LC50	86 mg/l	Fish		Leuciscus idus	OECD Guideline 203 (Fish, Acute Toxicity Test)
Xylene - mixture of isomeres 1330-20-7	EC50	3,1 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute
						Immobilisation Test)
Xylene - mixture of isomeres 1330-20-7	EC50	> 1 - 10 mg/l	Algae		Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Xylene - mixture of isomeres 1330-20-7	EC 50	> 1 - 10 mg/l	Bacteria		•	·
Ethylbenzene 100-41-4	LC50	4,2 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Ethylbenzene 100-41-4	EC50	> 1,8 - 2,4 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute
						Immobilisation Test)
Ethylbenzene 100-41-4	EC50	7,7 mg/l	Algae	96 h	Skeletonema costatum	OECD Guideline 201 (Alga, Growth Inhibition Test)
	NOEC	4,5 mg/l	Algae	96 h	Skeletonema costatum	OECD Guideline 201 (Alga, Growth Inhibition Test)
Ethylbenzene 100-41-4	EC 50	> 152 mg/l	Bacteria	30 min		OECD Guideline 209 (Activated
						Sludge, Respiration Inhibition Test)
Ethylbenzene 100-41-4	NOEC	0,96 mg/l	chronic Daphnia	7 d	Ceriodaphnia dubia	OECD 211 (Daphnia magna, Reproduction Test)
4,4'- methylenediphenyl diisocyanate 101-68-8	LC50	> 1.000 mg/l	Fish	96 h	Danio rerio	OECD Guideline 203 (Fish, Acute Toxicity Test)
4,4'- methylenediphenyl diisocyanate 101-68-8	EC50	129,7 mg/l	Daphnia	24 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute
101-06-6						Immobilisation
4,4'- methylenediphenyl diisocyanate	EC50	> 1.640 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus	Test) OECD Guideline 201 (Alga, Growth
101-68-8 4,4'- methylenediphenyl diisocyanate	EC 50	> 100 mg/l	Bacteria	3 h	subspicatus)	Inhibition Test) OECD Guideline 209 (Activated
101-68-8						Sludge, Respiration Inhibition Test)
4,4'- methylenediphenyl diisocyanate	NOEC	> 10 mg/l	chronic Daphnia	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
Hexane, 1,6-diisocyanato-, homopolymer, V=7000-11000 mPas/23	LC50	> 100 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
28182-81-2 Hexane, 1,6-diisocyanato-, homopolymer, V=7000-11000 mPas/23 28182-81-2	EC50	> 100 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation
Hexane, 1,6-diisocyanato-,	EC0	> 100 mg/l	Algae	72 h	Scenedesmus subspicatus (new	Test) OECD Guideline

homopolymer, V=7000-11000 mPas/23 28182-81-2					name: Desmodesmus subspicatus)	201 (Alga, Growth Inhibition Test)
p-Toluenesulphonyl isocyanate 4083-64-1	LC50	597 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
p-Toluenesulphonyl isocyanate 4083-64-1	EC 50	2.511 mg/l	Bacteria			OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Dibutyltin dilaurate 77-58-7	LC50	7,6 mg/l	Fish	48 h	Leuciscus idus	DIN 38412-15
Dibutyltin dilaurate 77-58-7	EC50	660 µg/l	Daphnia	24 h	Daphnia magna	
Dibutyltin dilaurate 77-58-7	IC50	> 3 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Dibutyltin dilaurate 77-58-7	EC0	6 mg/l	Bacteria		• /	

# 12.2. Persistence and degradability

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Isoparaffinic Hydrocarbon 90622-57-4	readily biodegradable	aerobic	77,6 %	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
Xylene - mixture of isomeres 1330-20-7	readily biodegradable	aerobic	> 60 %	OECD 301 A - F
Ethylbenzene 100-41-4	readily biodegradable	aerobic	69 %	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))
4,4'- methylenediphenyl diisocyanate 101-68-8	Not readily biodegradable.	aerobic	0 %	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
Hexane, 1,6-diisocyanato-, homopolymer, V=7000-11000 mPas/23 28182-81-2		aerobic	1 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
p-Toluenesulphonyl isocyanate 4083-64-1	readily biodegradable		98 %	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
Dibutyltin dilaurate 77-58-7		anaerobic	23 %	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)

# 12.3. Bioaccumulative potential / 12.4. Mobility in soil

Hazardous components	LogKow	Bioconcentration	Exposure	Species	Temperature	Method
CAS-No.		factor (BCF)	time			
Isoparaffinic Hydrocarbon	> 5,1					
90622-57-4						
Xylene - mixture of isomeres		8,5	7 d	Oncorhynchus		
1330-20-7				mykiss		
Xylene - mixture of isomeres	3,12					
1330-20-7						
Ethylbenzene		1	42 d	Oncorhynchus	10 °C	OECD Guideline 305
100-41-4				kisutch		(Bioconcentration: Flow-
						through Fish Test)
Ethylbenzene	3,6				20 °C	EU Method A.8 (Partition
100-41-4						Coefficient)
4,4'- methylenediphenyl		92 - 200	28 d	Cyprinus carpio		OECD Guideline 305 E
diisocyanate						(Bioaccumulation: Flow-
101-68-8						through Fish Test)
4,4'- methylenediphenyl	5,22					
diisocyanate						
101-68-8						
Dibutyltin dilaurate		31 - 155		Cyprinus carpio		OECD Guideline 305
77-58-7						(Bioconcentration: Flow-
						through Fish Test)
Dibutyltin dilaurate	4,44				20,8 °C	OECD Guideline 107
77-58-7						(Partition Coefficient (n-
						octanol / water), Shake
						Flask Method)

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#### 12.5. Results of PBT and vPvB assessment

Hazardous components	PBT/vPvB
CAS-No.	
Isoparaffinic Hydrocarbon	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
90622-57-4	Bioaccumulative (vPvB) criteria.
Xylene - mixture of isomeres	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
1330-20-7	Bioaccumulative (vPvB) criteria.
Ethylbenzene	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
100-41-4	Bioaccumulative (vPvB) criteria.
4,4'- methylenediphenyl diisocyanate	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
101-68-8	Bioaccumulative (vPvB) criteria.
Dibutyltin dilaurate	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
77-58-7	Bioaccumulative (vPvB) criteria.

#### 12.6. Other adverse effects

No data available.

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Product disposal:

In consultation with the responsible local authority, must be subjected to special treatment.

#### Waste code

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

08 04 09 Waste adhesives and sealants containing organic solvents or other dangerous substances

# **SECTION 14: Transport information**

#### 14.1. UN number

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

#### 14.2. UN proper shipping name

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

### 14.3. Transport hazard class(es)

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

#### 14.4. Packing group

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

### 14.5. Environmental hazards

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

#### 14.6. Special precautions for user

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

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

not applicable

# **SECTION 15: Regulatory information**

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

VOC content 10,3 %

(VOCV 814.018 VOC regulation

CH)

### **VOC Paints and Varnishes (EU):**

Product (sub)category: This product is not a subject of the Directive 2004/42/EC

#### 15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

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### **SECTION 16: Other information**

The labelling of the product is indicated in Section 2. The full text

of all abbreviations indicated by codes in this safety data sheet are as follows:

- H225 Highly flammable liquid and vapor.
- H226 Flammable liquid and vapor.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- 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.
- H341 Suspected of causing genetic defects.
- H351 Suspected of causing cancer.
- H360 May damage fertility or the unborn child.
- H370 Causes damage to organs.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

#### **Further information:**

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

#### Label elements (DPD):

Xn - Harmful



#### Risk phrases:

R42 May cause sensitization by inhalation.

#### Safety phrases:

S2 Keep out of the reach of children.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

#### Additional labeling:

Contains isocyanates. See information supplied by the manufacturer.

#### Contains:

4,4'- methylenediphenyl diisocyanate

Contains Hexane, 1,6-diisocyanato-, homopolymer, V=7000-11000 mPas/23, p-Toluenesulphonyl isocyanate, Dibutyltin dilaurate. May produce an allergic reaction.

Relevant changes in this safety data sheet are indicated by vertical lines at the left margin in the body of this document. Corresponding text is displayed in a different color on shadowed fields.

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