

## Safety Data Sheet according to (EC) No 1907/2006 as amended

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### LOCTITE PC 7282

SDS No.: 574521 V003.1 Revision: 30.11.2022 printing date: 24.12.2022 Replaces version from: 24.06.2021

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

- **1.1. Product identifier** LOCTITE PC 7282
- **1.2. Relevant identified uses of the substance or mixture and uses advised against** Intended use:

Coating

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

Henkel AG & Co. KGaA Henkelstr. 67 40589 Düsseldorf

#### Germany

Phone: +49 211 797 0

SDSinfo.Adhesive@henkel.com

For Safety Data Sheet updates please visit our website https://mysds.henkel.com/index.html#/appSelection or www.henkel-adhesives.com.

#### **1.4.** Emergency telephone number

The Henkel information service also provides an around-the-clock telephone service on phone no.+49-(0)211-797-3350 for exceptional cases.

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

### Classification (CLP):

lċ	assincation (CLF):	
	Acute toxicity	Category 4
	H332 Harmful if inhaled.	
	Route of Exposure: Inhalation	
	Skin irritation	Category 2
	H315 Causes skin irritation.	
	Serious eye irritation	Category 2
	H319 Causes serious eye irritation.	
	Respiratory sensitizer	Category 1
	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
	Skin sensitizer	Category 1
	H317 May cause an allergic skin reaction.	
	Carcinogenicity	Category 2
	H351 Suspected of causing cancer.	
	Specific target organ toxicity - single exposure	Category 3
	H335 May cause respiratory irritation.	
	Target organ: respiratory tract irritation	
	Specific target organ toxicity - repeated exposure	Category 2
	H373 May cause damage to organs through prolonged or repeated exposure.	

2.2. Label elements

Label elements (CLP):	
Hazard pictogram:	
Contains	Poly[oxy(methyl-1,2-ethanediyl)], a-hydro-w-hydroxy-, polymer with 1,1'- methylenebis[isocyanatobenzene]
	4,4'- methylenediphenyl diisocyanate MDI homopolymer
	Reaction mass of 4,4 - Methylenediphenyl diisoyanate and o-(p-isocyanatobenzyl)phenyl isocyanate
Signal word:	Danger
Hazard statement:	<ul> <li>H315 Causes skin irritation.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H319 Causes serious eye irritation.</li> <li>H332 Harmful if inhaled.</li> <li>H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li> <li>H335 May cause respiratory irritation.</li> <li>H351 Suspected of causing cancer.</li> <li>H373 May cause damage to organs through prolonged or repeated exposure.</li> </ul>
Supplemental information	As from 24 August 2023 adequate training is required before industrial or professional use. Further information: https://www.feica.eu/PUinfo
Precautionary statement: Prevention	<ul><li>P260 Do not breathe mist/spray.</li><li>P280 Wear protective gloves/protective clothing/eye protection/face protection.</li><li>P284 [In case of inadequate ventilation] wear respiratory protection.</li></ul>
Precautionary statement: Response	<ul> <li>P302+P352 IF ON SKIN: Wash with plenty of soap and water.</li> <li>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P311 Call a POISON CENTER or doctor.</li> </ul>

#### 2.3. Other hazards

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

Following substances are present in a concentration  $\geq$  the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

This mixture does not contain any substances in a concentration  $\geq$  the concentration limit for depiction in Section 3 that are assessed to be a PBT, vPvB or ED.

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

#### 3.2. Mixtures

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

Hazardous components	Concentration	Classification	Specific Conc. Limits, M-	Add.
CAS-No.			factors and ATEs	Information
EC Number				
<b>REACH-Reg No.</b>				
Poly[oxy(methyl-1,2-	60- 100 %	Skin Irrit. 2, H315		
ethanediyl)], a-hydro-w-hydroxy-		Skin Sens. 1, H317		
, polymer with 1,1'-		Eye Irrit. 2, H319		
methylenebis[isocyanatobenzene		Acute Tox. 4, Inhalation, H332		
]		Resp. Sens. 1, H334		
39420-98-9		STOT SE 3, H335		
		Carc. 2, H351		
		STOT RE 2, H373		
		5101 KL 2, 11575		
4,4'- methylenediphenyl	10- 30 %	Carc. 2, H351	Eye Irrit. 2; H319; C >= 5 %	
diisocyanate	10 50 /0	Acute Tox. 4, Inhalation, H332	Skin Irrit. 2; H315; $C \ge 5\%$	
101-68-8		STOT RE 2, H373	Resp. Sens. 1; H334; $C \ge 0.1 \%$	
202-966-0		Eye Irrit. 2, H319	STOT SE 3; H335; C >= 5 %	
01-2119457014-47		STOT SE 3, H335	5101 52 5, 11555, 0 > - 5 %	
		Skin Irrit. 2. H315		
		Resp. Sens. 1, H334		
		Skin Sens. 1, H317		
propylene carbonate 108-32-7 203-572-1 01-2119537232-48	5- 10 %	Eye Irrit. 2, H319		
MDI homopolymer	3- 7%	Acute Tox. 4, Inhalation, H332	Resp. Sens. 1; H334; C >= 0,1 %	
25686-28-6		Skin Irrit. 2, H315	Eye Irrit. 2; H319; C >= 5 %	
500-040-3		Eye Irrit. 2, H319	Skin Irrit. 2; H315; C >= 5 %	
500-040-3		Resp. Sens. 1, H334	STOT SE 3; H335; C >= 5 %	
01-2119457013-49		Skin Sens. 1, H317		
		STOT SE 3, H335		
		Carc. 2, H351		
		STOT RE 2, Inhalation, H373		
Reaction mass of 4,4 <sup>-</sup> -	3- 7%	Skin Irrit. 2, H315	Eye Irrit. 2; H319; C >= 5 %	
Methylenediphenyl diisoyanate		Skin Sens. 1, H317	Skin Irrit. 2; H315; C >= 5 %	
and o-(p-		Eye Irrit. 2, H319	Resp. Sens. 1; H334; C >= 0,1 %	
isocyanatobenzyl)phenyl		Acute Tox. 4, Inhalation, H332	STOT SE 3; H335; C >= 5 %	
isocyanate		Resp. Sens. 1, H334		
005 006 4		STOT SE 3, H335		
		Carc. 2, H351		
01-211945/015-45		STOT RE 2, H373		
905-806-4 01-2119457015-45		STOT SE 3, H335 Carc. 2, H351		

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

General information:

Symptoms of poisoning may occur even after several hours, continue medical observation for at least 48 hours after the accident.

Inhalation:

Fresh air, oxygen supply, warmth; seek specialist medical attention. Delayed effects possible after inhalation.

Skin contact:

IF ON SKIN: Wash with plenty of soap and water. In case of adverse health effects seek medical advice.

Eye contact:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### Ingestion:

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** EYE: Irritation, conjunctivitis.

SKIN: Redness, inflammation.

SKIN: Rash, Urticaria.

RESPIRATORY: Irritation, coughing, shortness of breath, chest tightness.

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

### 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:** High pressure waterjet

# **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 self-contained breathing apparatus. Wear protective equipment.

### **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. Danger of slipping on spilled product.

#### **6.2. Environmental precautions**

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

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

Remove with liquid-absorbing material (sand, peat, sawdust). 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:

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

Take off contaminated clothing and wash before reuse.

7.2. Conditions for safe storage, including any incompatibilities Ensure good ventilation/extraction.
Store in a dry place.
Store in sealed original container.
Temperatures between + 10 °C and + 30 °C
Protect from freezing.

**7.3. Specific end use(s)** Coating

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

### 8.1. Control parameters

#### **Occupational Exposure Limits**

Valid for

Germany

Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>	Value type	Short term exposure limit category / Remarks	Regulatory list
4,4'-Methylenediphenyl diisocyanate 101-68-8			Skin designation:	Can be absorbed through the skin.	TRGS 900
4,4'-Methylenediphenyl diisocyanate 101-68-8			STEL (Short Term Exposure Limit) factor:	1 Substance listed with both Peak factor and STEL factor. The Peak factor is supplied with the AGW values.	TRGS 900
4,4'-Methylenediphenyl diisocyanate 101-68-8		0,05	Exposure limit(s):	2 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
4,4'-Methylenediphenyl diisocyanate 101-68-8			Short Term Exposure Classification:	Category I: substances for which the localized effect has an assigned OEL or for substances with a sensitizing effect in respiratory passages.	TRGS 900
Propylene carbonate 108-32-7			Short Term Exposure Classification:	Category I: substances for which the localized effect has an assigned OEL or for substances with a sensitizing effect in respiratory passages.	TRGS 900
Propylene carbonate 108-32-7	2	8,5	Exposure limit(s):	1 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900

### Predicted No-Effect Concentration (PNEC):

Name on list	Environmental Compartment	Exposure period	Value			Remarks	
		1	mg/l	ppm	mg/kg	others	
4,4'- methylenediphenyl diisocyanate	aqua		0,0037	· · ·			
101-68-8	(freshwater)		mg/l				
4,4'- methylenediphenyl diisocyanate 101-68-8	aqua (intermittent releases)		0,037 mg/l				
4,4'- methylenediphenyl diisocyanate 101-68-8	aqua (marine water)		0,00037 mg/l				
4,4'- methylenediphenyl diisocyanate 101-68-8	sediment (freshwater)				11,7 mg/kg		
4,4'- methylenediphenyl diisocyanate 101-68-8	sediment (freshwater)				1,17 mg/kg		
4,4'- methylenediphenyl diisocyanate 101-68-8	Soil				2,33 mg/kg		
4,4'- methylenediphenyl diisocyanate 101-68-8	Predator						no potential for bioaccumulation
Propylene carbonate 108-32-7	aqua (marine water)		0,09 mg/l				
Propylene carbonate 108-32-7	aqua (freshwater)		0,9 mg/l				
Propylene carbonate 108-32-7	sewage treatment plant (STP)		7400 mg/l				
Propylene carbonate 108-32-7	Freshwater - intermittent		9 mg/l				
Propylene carbonate 108-32-7	Soil				0,81 mg/kg		
Propylene carbonate 108-32-7	Marine water - intermittent		0,9 mg/l				
4,4'-Methylenediphenyl diisocyanate, homopolymer 25686-28-6	aqua (freshwater)		1 mg/l				
4,4'-Methylenediphenyl diisocyanate, homopolymer 25686-28-6	aqua (marine water)		0,1 mg/l				
4,4'-Methylenediphenyl diisocyanate, homopolymer 25686-28-6	Soil				1 mg/kg		
4,4'-Methylenediphenyl diisocyanate, homopolymer 25686-28-6	sewage treatment plant (STP)		1 mg/l				
4,4'-Methylenediphenyl diisocyanate, homopolymer 25686-28-6	aqua (intermittent releases)		10 mg/l				
Reaction mass of 4,4'-Methylenediphenyl diisoyanate and o-(p- isocyanatobenzyl)phenyl isocyanate	aqua (freshwater)		1 mg/l				
Reaction mass of 4,4 -Methylenediphenyl diisoyanate and o-(p- isocyanatobenzyl)phenyl isocyanate	aqua (marine water)		0,1 mg/l				
Reaction mass of 4,4 <sup>°</sup> -Methylenediphenyl diisoyanate and o-(p- isocyanatobenzyl)phenyl isocyanate	aqua (intermittent releases)		10 mg/l				
Reaction mass of 4,4 <sup>°</sup> -Methylenediphenyl diisoyanate and o-(p- isocyanatobenzyl)phenyl isocyanate	Soil				1 mg/kg		
Reaction mass of 4,4 <sup>°</sup> -Methylenediphenyl diisoyanate and o-(p- isocyanatobenzyl)phenyl isocyanate	sewage treatment plant (STP)		1 mg/l				

### Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
4,4'- methylenediphenyl diisocyanate 101-68-8	Workers	inhalation	Long term exposure - local effects		0,05 mg/m3	no potential for bioaccumulation
4,4'- methylenediphenyl diisocyanate 101-68-8	Workers	inhalation	Acute/short term exposure - local effects		0,1 mg/m3	no potential for bioaccumulation
4,4'- methylenediphenyl diisocyanate 101-68-8	General population	inhalation	Long term exposure - local effects		0,025 mg/m3	no potential for bioaccumulation
4,4'- methylenediphenyl diisocyanate 101-68-8	General population	inhalation	Acute/short term exposure - local effects		0,05 mg/m3	no potential for bioaccumulation
Propylene carbonate 108-32-7	Workers	inhalation	Long term exposure - systemic effects		70,53 mg/m3	
Propylene carbonate 108-32-7	Workers	inhalation	Long term exposure - local effects		20 mg/m3	
Propylene carbonate 108-32-7	Workers	dermal	Long term exposure - systemic effects		20 mg/kg	
Propylene carbonate 108-32-7	Workers	dermal	Long term exposure - local effects		10 mg/cm2	
Propylene carbonate 108-32-7	General population	inhalation	Long term exposure - systemic effects		17,4 mg/m3	
Propylene carbonate 108-32-7	General population	inhalation	Long term exposure - local effects		10 mg/m3	
Propylene carbonate 108-32-7	General population	dermal	Long term exposure - systemic effects		10 mg/kg	
Propylene carbonate 108-32-7	General population	oral	Long term exposure - systemic effects		10 mg/kg	
4,4'-Methylenediphenyl diisocyanate, homopolymer 25686-28-6	Workers	inhalation	Long term exposure - local effects		0,05 mg/m3	
4,4'-Methylenediphenyl diisocyanate, homopolymer 25686-28-6	Workers	inhalation	Acute/short term exposure - local effects		0,1 mg/m3	
4,4'-Methylenediphenyl diisocyanate, homopolymer 25686-28-6	General population	inhalation	Long term exposure - local effects		0,025 mg/m3	
4,4'-Methylenediphenyl diisocyanate, homopolymer 25686-28-6	General population	inhalation	Acute/short term exposure - local effects		0,05 mg/m3	
Reaction mass of 4,4 <sup>-</sup> -Methylenediphenyl diisoyanate and o-(p- isocyanatobenzyl)phenyl isocyanate	Workers	inhalation	Acute/short term exposure - local effects		0,1 mg/m3	
Reaction mass of 4,4 <sup>°</sup> -Methylenediphenyl diisoyanate and o-(p- isocyanatobenzyl)phenyl isocyanate	Workers	inhalation	Long term exposure - local effects		0,05 mg/m3	
Reaction mass of 4,4 <sup>°</sup> -Methylenediphenyl diisoyanate and o-(p- isocyanatobenzyl)phenyl isocyanate	General population	inhalation	Acute/short term exposure - local effects		0,05 mg/m3	
Reaction mass of 4,4 <sup>°</sup> -Methylenediphenyl diisoyanate and o-(p- isocyanatobenzyl)phenyl isocyanate	General population	inhalation	Long term exposure - local effects		0,025 mg/m3	

### **Biological Exposure Indices:**

Ingredient [Regulated	Parameters	Biological	Sampling time	Conc.	Basis of biol.	Remark	Additional
substance]		specimen	·	1.0	exposure index		Information
4,4'-Methylenediphenyl	4,4-	Creatinine in	Sampling time: End of	$10 \ \mu g/g$	DE BAT	BAT values	
diisocyanate	Diaminodiph	urine	shift.			reflect the	
101-68-8	enylmethane					total	
						physical load	
						of workplace	
						substances	
						absorbed	
						through	
						inhalation,	
						dermally,	
						etc. With	
						occupational	
						exposure to	
						MDI,	
						parameter	
						4,4'-	
						Diaminodiph	
						enylmethane	
						(MDA) in	
						the urine	
						covers all	
						components	
						of a complex	
						MDI	
						mixture,	
						since both	
						monomers	
						and	
						oligomers of	
						the MDI are	
						degraded	
						independent	
						of the	
						exposure	
						path of the	
						monomerous	
						MDI. In	
						contrast, the	
						MAK value	
						for MDI	
						takes into	
						account only	
						the monomer	
						MDI portion.	1

### 8.2. Exposure controls:

Engineering controls:

Use only in well ventilated areas. Draw off vapors and fumes directly at the point of generation or release. In the case of regular work use bench-mounted extraction equipment.

Respiratory protection:

In case of aerosol formation, we recommend wearing of appropriate respiratory protection equipment with ABEK P2 filter (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):

nitrile rubber (NBR; >= 0.4 mm thickness)

Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 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), or equivalent.

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

Physical state	liquid
Delivery form	liquid
Colour	yellowish
Odor	musty
Melting point	Not applicable, Product is a liquid
Initial boiling point	Currently under determination
Flammability	Currently under determination
Explosive limits	Currently under determination
Flash point	Currently under determination
Auto-ignition temperature	Currently under determination
Decomposition temperature	Currently under determination
pH	Currently under determination
Viscosity (kinematic)	Currently under determination
Viscosity, dynamic	400 - 800 mPa.s no method
(; 25 °C (77 °F))	
Solubility (qualitative)	Currently under determination
Partition coefficient: n-octanol/water	Not applicable
	Mixture
Vapour pressure	Currently under determination
Density	1,09 - 1,13 g/cm3 no method
(20 °C (68 °F))	
Relative vapour density:	Currently under determination
Particle characteristics	Not applicable
	Product is a liquid

#### 9.2. Other information

Other information not applicable for this product

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

### 10.1. Reactivity

Reaction with water, alcohols, amines. Reacts with water: Pressure built up in closed vessel (CO2).

#### **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**

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

### **SECTION 11: Toxicological information**

#### General toxicological information:

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

#### 1.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute oral toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
Poly[oxy(methyl-1,2- ethanediyl)], a-hydro-w- hydroxy-, polymer with 1,1'- methylenebis[isocyanatob enzene] 39420-98-9	LD50	> 10.000 mg/kg	rat	not specified
4,4'- methylenediphenyl diisocyanate 101-68-8	LD50	> 2.000 mg/kg	rat	other guideline:
propylene carbonate 108-32-7	LD50	> 5.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
MDI homopolymer 25686-28-6	LD50	> 5.000 mg/kg	rat	OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure)
Reaction mass of 4,4 <sup>^</sup> - Methylenediphenyl diisoyanate and o-(p- isocyanatobenzyl)phenyl isocyanate	LD50	> 2.000 mg/kg	rat	other guideline:

#### Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Species	Method
CAS-No.	type			
Poly[oxy(methyl-1,2-	LD50	> 9.400 mg/kg	rabbit	not specified
ethanediyl)], a-hydro-w-				
hydroxy-, polymer with				
1,1'-				
methylenebis[isocyanatob				
enzene]				
39420-98-9				
4,4'- methylenediphenyl	LD50	> 9.400 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)
diisocyanate				
101-68-8				
propylene carbonate	LD50	> 3.000 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)
108-32-7				
MDI homopolymer	LD50	> 9.400 mg/kg	rabbit	equivalent or similar to OECD Guideline 402 (Acute
25686-28-6				Dermal Toxicity)
Reaction mass of 4,4 <sup>-</sup> -	LD50	> 9.400 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)
Methylenediphenyl				
diisoyanate and o-(p-				
isocyanatobenzyl)phenyl				
isocyanate				

#### Acute inhalative toxicity:

No substance data available. No data available.

#### Skin corrosion/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
4,4'- methylenediphenyl diisocyanate 101-68-8	irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
propylene carbonate 108-32-7	not irritating	24 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
MDI homopolymer 25686-28-6	irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Reaction mass of 4,4`- Methylenediphenyl diisoyanate and o-(p- isocyanatobenzyl)phenyl isocyanate	irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

#### Serious eye damage/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
propylene carbonate 108-32-7	irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

### Respiratory or skin sensitization:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances	Result	Test type	Species	Method
CAS-No.			_	
4,4'- methylenediphenyl	sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
diisocyanate				
101-68-8				
4,4'- methylenediphenyl	sensitising	Respiratory sensitisation	guinea pig	not specified
diisocyanate				
101-68-8				
propylene carbonate	not sensitising	Patch-Test	human	Patch Test
108-32-7				
MDI homopolymer	sensitising	Guinea pig maximisation	guinea pig	OECD Guideline 406 (Skin Sensitisation)
25686-28-6		test		
MDI homopolymer	sensitising	Respiratory sensitisation	rat	not specified
25686-28-6				
Reaction mass of 4,4 <sup>-</sup> -	sensitising	Skin sensitisation	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Methylenediphenyl				
diisoyanate and o-(p-				
isocyanatobenzyl)phenyl				
isocyanate				

### Germ cell mutagenicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
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)
propylene carbonate 108-32-7	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
propylene carbonate 108-32-7	negative	DNA damage and repair assay, unscheduled DNA synthesis in mammalian cells in vitro	without		OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro)
MDI homopolymer 25686-28-6	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Reaction mass of 4,4'- Methylenediphenyl diisoyanate and o-(p- isocyanatobenzyl)phenyl isocyanate	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		EU Method B.13/14 (Mutagenicity)
4,4'- methylenediphenyl diisocyanate 101-68-8	negative	inhalation		rat	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
propylene carbonate 108-32-7	negative	intraperitoneal		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
MDI homopolymer 25686-28-6	negative	inhalation: aerosol		rat	OECD Guideline 489 (In Vivo Mammalian Alkaline Comet Assay)
MDI homopolymer 25686-28-6	negative	inhalation		rat	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Reaction mass of 4,4' - Methylenediphenyl diisoyanate and o-(p- isocyanatobenzyl)phenyl isocyanate	negative	inhalation		rat	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

#### Carcinogenicity

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Sex	Method
4,4'- methylenediphenyl diisocyanate 101-68-8	carcinogenic	inhalation: aerosol	2 y 6 h/d	rat	male/female	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
MDI homopolymer 25686-28-6	carcinogenic	inhalation: aerosol	2 y 6 h/d, 5 d/w	rat	male/female	equivalent or similar OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
Reaction mass of 4,4 <sup>°</sup> - Methylenediphenyl diisoyanate and o-(p- isocyanatobenzyl)phenyl isocyanate	carcinogenic	inhalation: aerosol	2 y 6 h/d	rat	male/female	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

### **Reproductive toxicity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Test type	Route of application	Species	Method
MDI homopolymer 25686-28-6	NOAEL P 2.03 mg/m3 NOAEL F1 2.03 mg/m3	screening	inhalation	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

#### STOT-single exposure:

No data available.

### STOT-repeated exposure::

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
4,4'- methylenediphenyl diisocyanate 101-68-8	NOAEL 0,0002 mg/l	inhalation: aerosol	main: 2 y; satellite:1 y 6 h/d; 5 d/w	rat	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
propylene carbonate 108-32-7	NOAEL 0,1 mg/l	inhalation	13 weeks (93 days) 6 h/d; 5 d/w	rat	OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)
propylene carbonate 108-32-7	NOAEL > 5.000 mg/kg	oral: gavage	90 days 5 days/week	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
MDI homopolymer 25686-28-6	NOAEL 0.2 mg/m3	inhalation: aerosol	2 y 6 h/d; 5 d/w	rat	equivalent or similar to OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

#### Aspiration hazard:

No data available.

### 11.2 Information on other hazards

not applicable

### **SECTION 12: Ecological information**

#### General ecological information:

Do not empty into drains, soil or bodies of water.

#### 12.1. Toxicity

#### Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
4,4'- methylenediphenyl diisocyanate 101-68-8	LL50	> 100 mg/l	96 h	Danio rerio	OECD Guideline 203 (Fish, Acute Toxicity Test)
propylene carbonate 108-32-7	LC50	5.300 mg/l	96 h	Leuciscus idus	DIN 38412-15
MDI homopolymer 25686-28-6	LC50	> 1.000 mg/l	96 h	Danio rerio	OECD Guideline 203 (Fish, Acute Toxicity Test)
Reaction mass of 4,4 <sup>°</sup> - Methylenediphenyl diisoyanate and o-(p- isocyanatobenzyl)phenyl isocyanate	LC50	Toxicity > Water solubility	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)

#### Toxicity (Daphnia):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
4,4'- methylenediphenyl diisocyanate 101-68-8	EC50	> 100 mg/l	48 h	Daphnia magna	EU Method C.2 (Acute Toxicity for Daphnia)
propylene carbonate 108-32-7	EC50	> 500 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
MDI homopolymer 25686-28-6	EC50	129,7 mg/l	24 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Reaction mass of 4,4' - Methylenediphenyl diisoyanate and o-(p- isocyanatobenzyl)phenyl isocyanate	EC50	Toxicity > Water solubility	24 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

#### Chronic toxicity to aquatic invertebrates

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
4,4'- methylenediphenyl diisocyanate 101-68-8	NOEC	10 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
MDI homopolymer 25686-28-6	NOEC	10 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
Reaction mass of 4,4 <sup>-</sup> - Methylenediphenyl diisoyanate and o-(p- isocyanatobenzyl)phenyl isocyanate	NOEC	Toxicity > Water solubility	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)

Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the m	ixture.
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Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No. 4,4'- methylenediphenyl diisocyanate 101-68-8	type EL50	> 100 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
4,4'- methylenediphenyl diisocyanate 101-68-8	NOELR	100 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
propylene carbonate 108-32-7	EC50	> 900 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
propylene carbonate 108-32-7	NOEC	900 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
MDI homopolymer 25686-28-6	EC50	> 1.640 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
MDI homopolymer 25686-28-6	NOEC	1.640 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Reaction mass of 4,4 <sup>°</sup> - Methylenediphenyl diisoyanate and o-(p- isocyanatobenzyl)phenyl isocyanate	EC50	Toxicity > Water solubility	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Reaction mass of 4,4 <sup>°</sup> - Methylenediphenyl diisoyanate and o-(p- isocyanatobenzyl)phenyl isocyanate	NOELR	Toxicity > Water solubility	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)

#### Toxicity to microorganisms

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
4,4'- methylenediphenyl diisocyanate 101-68-8	EC50	> 1.000 mg/l	3 h	predominantly domestic sewage	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
propylene carbonate 108-32-7	EC10	> 10.000 mg/l	17 h		not specified
MDI homopolymer 25686-28-6	EC50	> 100 mg/l	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Reaction mass of 4,4 <sup>°</sup> - Methylenediphenyl diisoyanate and o-(p- isocyanatobenzyl)phenyl isocyanate	EC50	Toxicity > Water solubility	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

### 12.2. Persistence and degradability

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
4,4'- methylenediphenyl diisocyanate 101-68-8	not readily biodegradable.	aerobic	0 %	28 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
propylene carbonate 108-32-7	inherently biodegradable	aerobic	> 70 %		OECD Guideline 302 B (Inherent biodegradability: Zahn- Wellens/EMPA Test)
propylene carbonate 108-32-7	readily biodegradable	aerobic	98 %		OECD Guideline 301 E (Ready biodegradability: Modified OECD Screening Test)
MDI homopolymer 25686-28-6	not readily biodegradable.	aerobic	> 0 - < 60 %	28 d	OECD 301 A - F
MDI homopolymer 25686-28-6	not inherently biodegradable	aerobic	0 %	28 d	OECD Guideline 302 C (Inherent Biodegradability: Modified MITI Test (II))
Reaction mass of 4,4' - Methylenediphenyl diisoyanate and o-(p- isocyanatobenzyl)phenyl isocyanate	not inherently biodegradable	aerobic	0 %	28 day	OECD Guideline 302 C (Inherent Biodegradability: Modified MITI Test (II))

### 12.3. Bioaccumulative potential

Hazardous substances CAS-No.	Bioconcentratio n factor (BCF)	Exposure time	Temperature	Species	Method
4,4'- methylenediphenyl diisocyanate 101-68-8	92 - 200	28 d		Cyprinus carpio	OECD Guideline 305 E (Bioaccumulation: Flow-through Fish Test)
MDI homopolymer 25686-28-6	> 92 - 200	28 d		Cyprinus carpio	OECD Guideline 305 E (Bioaccumulation: Flow-through Fish Test)
Reaction mass of 4,4 <sup>-</sup> - Methylenediphenyl diisoyanate and o-(p- isocyanatobenzyl)phenyl isocyanate	92 - 200	28 d		Cyprinus carpio	OECD Guideline 305 E (Bioaccumulation: Flow-through Fish Test)

12.4. Mobility in soil

Hazardous substances	LogPow	Temperature	Method
CAS-No. 4,4'- methylenediphenyl diisocyanate 101-68-8	4,51	22 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
propylene carbonate 108-32-7	-0,41		not specified
Reaction mass of 4,4 <sup>°</sup> - Methylenediphenyl diisoyanate and o-(p- isocyanatobenzyl)phenyl isocyanate	4,51	22 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)

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

Hazardous substances	PBT / vPvB					
CAS-No.						
4,4'- methylenediphenyl diisocyanate 101-68-8	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.					
propylene carbonate 108-32-7	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.					
MDI homopolymer 25686-28-6	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.					
Reaction mass of 4,4 <sup>-</sup> -Methylenediphenyl diisoyanate and o-(p-isocyanatobenzyl)phenyl isocyanate	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.					

#### 12.6. Endocrine disrupting properties

not applicable

#### 12.7. 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. 080409

### **SECTION 14: Transport information**

14.1.	UN number or ID number						
	ADR	Not dangerous goods					
	RID	Not dangerous goods					
	ADN	Not dangerous goods					
	IMDG	Not dangerous goods					
	IATA	Not dangerous goods					
14.0	<b>T</b> T <b>N</b> T						
14.2.	UN proper shipping name						
	ADR	Not dangerous goods					
	RID	Not dangerous goods					
	ADN	Not dangerous goods					
	IMDG	Not dangerous goods					
	IATA	Not dangerous goods					
14.3.	Transport haza	rd class(es)					
	ADR	Not dangerous goods					
	RID	Not dangerous goods					
	ADN	Not dangerous goods					
	IMDG	Not dangerous goods					
	IATA	Not dangerous goods					
14.4.	Packing group						
	ADR	Not dangerous goods					
	RID	Not dangerous goods					
	ADN	Not dangerous goods					
	IMDG	Not dangerous goods					
	IATA	Not dangerous goods					
14.5.	Environmental	hazards					
	ADR	not applicable					
	RID	not applicable					
	ADN	not applicable					
	IMDG	not applicable					
	IATA	not applicable					
14.6.	Special precaut	ions for user					
	ADR	not applicable					
	RID	not applicable					
	ADN	not applicable					
	IMDG	not applicable					
	IATA	not applicable					
14.7.	Maritime trans	port in bulk according to IMO instruments					
	not applicable						

### **SECTION 15: Regulatory information**

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

 Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009):
 Not applicable

 Prior Informed Consent (PIC) (Regulation (EU) No 649/2012):
 Not applicable

 Persistent organic pollutants (Regulation (EU) 2019/1021):
 Not applicable

 VOC content
 0 %

 (2010/75/EU)
 (2010/75/EU)

A chemical safety assessment has been carried out.

#### National regulations/information (Germany):

WGK:

WGK 1: slightly hazardous to water (Ordinance on facilities for handling substances that are hazardous to water (AwSV) ) Classification according to AwSV, Annex 1 (5.2)

BG regulations, rules, infos:

BG data sheet: BGI 524 Hazardous substances: polyurethane production

and processing / isocyanates (M 044)

Storage class according to TRGS 510:

#### **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:

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.

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H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or repeated exposure.

ED:	Substance identified as having endocrine disrupting properties
EU OEL:	Substance with a Union workplace exposure limit
EU EXPLD 1:	Substance listed in Annex I, Reg (EC) No. 2019/1148
EU EXPLD 2	Substance listed in Annex II, Reg (EC) No. 2019/1148
SVHC:	Substance of very high concern (REACH Candidate List)
PBT:	Substance fulfilling persistent, bioaccumulative and toxic criteria
PBT/vPvB:	Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very
	bioaccumulative criteria
vPvB:	Substance fulfilling very persistent and very bioaccumulative criteria

#### Further information:

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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.

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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.



### Safety Data Sheet according to (EC) No 1907/2006 as amended Page 1 of 16

### LOCTITE PC 7282

SDS No.: 573349 V003.1 Revision: 30.11.2022 printing date: 24.12.2022 Replaces version from: 29.11.2022

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

- **1.1. Product identifier** LOCTITE PC 7282
- **1.2. Relevant identified uses of the substance or mixture and uses advised against** Intended use: Coating

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

Henkel AG & Co. KGaA Henkelstr. 67 40589 Düsseldorf

Germany

Phone: +49 211 797 0

SDSinfo.Adhesive@henkel.com

For Safety Data Sheet updates please visit our website https://mysds.henkel.com/index.html#/appSelection or www.henkel-adhesives.com.

#### **1.4. Emergency telephone number**

The Henkel information service also provides an around-the-clock telephone service on phone no.+49-(0)211-797-3350 for exceptional cases.

#### **SECTION 2: Hazards identification**

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

#### Classification (CLP):

Serious eye irritation	Category 2
H319 Causes serious eye irritation.	
Specific target organ toxicity - repeated exposure	Category 2
H373 May cause damage to organs through prolonged or repeated exposure.	
Chronic hazards to the aquatic environment	Category 2
H411 Toxic to aquatic life with long lasting effects.	

#### 2.2. Label elements

Label elements (CLP):

Hazard pictogram:



Contains

diethylmethylbenzenediamine

Signal word:	Warning					
Hazard statement:	H319 Causes serious eye irritation. H373 May cause damage to organs through prolonged or repeated exposure. H411 Toxic to aquatic life with long lasting effects.					
Supplemental information	Contains: dibutyltin dilaurate May produce an allergic reaction.					
Precautionary statement: Prevention	<ul><li>P260 Do not breathe mist/spray.</li><li>P273 Avoid release to the environment.</li><li>P280 Wear protective gloves/eye protection.</li></ul>					

#### 2.3. Other hazards

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

Following substances are present in a concentration  $\geq$  the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

This mixture does not contain any substances in a concentration  $\geq$  the concentration limit for depiction in Section 3 that are assessed to be a PBT, vPvB or ED.

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

### 3.2. Mixtures

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

Hazardous components CAS-No. EC Number REACH-Reg No.	Concentration	Classification	Specific Conc. Limits, M- factors and ATEs	Add. Information
Diethylene glycol 111-46-6 203-872-2 01-2119457857-21	5- 15 %	Acute Tox. 4, Oral, H302		
diethylmethylbenzenediamine 68479-98-1 270-877-4 01-2119486805-25	5- 15 %	Acute Tox. 4, Oral, H302 STOT RE 2, H373 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Acute Tox. 4, Dermal, H312	M acute = 1 M chronic = 1	
dibutyltin dilaurate 77-58-7 201-039-8 01-2119496068-27	0,1-< 0,3 %	Acute Tox. 4, Oral, H302 Aquatic Chronic 1, H410 Aquatic Acute 1, H400 STOT RE 1, H372 STOT SE 1, H370 Repr. 1B, H360FD Muta. 2, H341 Skin Sens. 1, H317 Eye Irrit. 2, H319	M acute = 1 M chronic = 1 ===== oral:ATE = 500 mg/kg	

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:

Move to fresh air, consult doctor if complaint persists.

Skin contact:

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

Eye contact:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion:

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

EYE: Irritation, conjunctivitis.

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:** High pressure waterjet

**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 self-contained breathing apparatus. Wear protective equipment.

**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. Danger of slipping on spilled product.

#### 6.2. Environmental precautions

Do not empty into drains / surface water / ground water. Inform authorities in the event of product spillage to water courses or sewage systems.

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

Remove with liquid-absorbing material (sand, peat, sawdust). 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:

Wash hands before work breaks and after finishing work. Do not eat, drink or smoke while working.

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

Ensure good ventilation/extraction. Store in a cool, dry place. Store in sealed original container. Temperatures between + 10 °C and + 30 °C Protect from freezing.

### 7.3. Specific end use(s)

Coating

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

#### 8.1. Control parameters

#### **Occupational Exposure Limits**

Valid for Germany

Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>	Value type	Short term exposure limit category / Remarks	Regulatory list
2,2'-Oxydiethanol 111-46-6	10	44	Exposure limit(s):	4 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
2,2'-Oxydiethanol 111-46-6			Short Term Exposure Classification:	Category II: substances with a resorptive effect.	TRGS 900

### Predicted No-Effect Concentration (PNEC):

Name on list	Environmental Compartment	Exposure period	Value		Remarks		
		periou	mg/l	ppm	mg/kg	others	
2,2'-Oxydiethanol	aqua		10 mg/l	I'I'			
111-46-6	(freshwater)		U				
2,2'-Oxydiethanol	aqua (marine		1 mg/l				
111-46-6	water)		C				
2,2'-Oxydiethanol	sewage		199,5 mg/l				
111-46-6	treatment plant		-				
	(STP)						
2,2'-Oxydiethanol	aqua		10 mg/l				
111-46-6	(intermittent						
	releases)						
2,2'-Oxydiethanol	sediment				20,9 mg/kg		
111-46-6	(freshwater)						
2,2'-Oxydiethanol	sediment				2,09 mg/kg		
111-46-6	(marine water)						
2,2'-Oxydiethanol	Soil		1		1,53 mg/kg		
111-46-6							
2,2'-Oxydiethanol	Air		1				no hazard identified
111-46-6							
2,2'-Oxydiethanol	Predator						no potential for
111-46-6							bioaccumulation
Diethylmethylbenzenediamine	aqua		0,001 mg/l				
68479-98-1	(freshwater)						
Diethylmethylbenzenediamine	sediment				0,029		
68479-98-1	(freshwater)				mg/kg		
Diethylmethylbenzenediamine	aqua (marine		0,0001				
68479-98-1	water)		mg/l				
Diethylmethylbenzenediamine	sediment				0,0029		
68479-98-1	(marine water)				mg/kg		
Diethylmethylbenzenediamine	Soil				0,0056		
68479-98-1					mg/kg		
Diethylmethylbenzenediamine	sewage		17 mg/l				
68479-98-1	treatment plant						
	(STP)						
Diethylmethylbenzenediamine	aqua		0,005 mg/l				
68479-98-1	(intermittent						
	releases)		-				
Diethylmethylbenzenediamine	oral				2 mg/kg		
68479-98-1			0.000462				
dibutyltin dilaurate	aqua		0,000463				
77-58-7 dibutyltin dilaurate	(freshwater)		mg/l 0,000046				
77-58-7	aqua (marine		0,000048 mg/l				
	water)						
dibutyltin dilaurate 77-58-7	aqua (intermittent		0,005 mg/l				
11-38-1	(interinitient releases)						
dibutyltin dilaurate	sewage		100 mg/l				
77-58-7	treatment plant		100 mg/1				
11 50-1	(STP)						
dibutyltin dilaurate	sediment				0,05 mg/kg		
77-58-7	(freshwater)		1		0,05 mg/kg		
dibutyltin dilaurate	sediment				0,005		
77-58-7	(marine water)				mg/kg		
dibutyltin dilaurate	Soil				0,0407		
77-58-7	5011		1		mg/kg		
			+	1	0,2 mg/kg		
dibutyltin dilaurate	oral				$(1 / m\sigma/k\sigma)$		

### **Derived No-Effect Level (DNEL):**

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
2,2'-Oxydiethanol 111-46-6	Workers	inhalation	Long term exposure - systemic effects		44 mg/m3	no hazard identified
2,2'-Oxydiethanol 111-46-6	Workers	inhalation	Long term exposure - local effects		60 mg/m3	no hazard identified
2,2'-Oxydiethanol 111-46-6	Workers	dermal	Long term exposure - systemic effects		43 mg/kg	no hazard identified
2,2'-Oxydiethanol 111-46-6	General population	inhalation	Long term exposure - systemic effects		12 mg/m3	no hazard identified
2,2'-Oxydiethanol 111-46-6	General population	inhalation	Long term exposure - local effects		12 mg/m3	no hazard identified
2,2'-Oxydiethanol 111-46-6	General population	dermal	Long term exposure - systemic effects		21 mg/kg	no hazard identified
Diethylmethylbenzenediamine 68479-98-1	Workers	inhalation	Long term exposure - systemic effects		0,13 mg/m3	
Diethylmethylbenzenediamine 68479-98-1	Workers	dermal	Long term exposure - systemic effects		1 mg/kg	
Diethylmethylbenzenediamine 68479-98-1	General population	oral	Long term exposure - systemic effects		0,1 mg/kg	
Diethylmethylbenzenediamine 68479-98-1	General population	dermal	Long term exposure - systemic effects		1 mg/kg	
Diethylmethylbenzenediamine 68479-98-1	General population	inhalation	Long term exposure - systemic effects		0,1 mg/m3	
dibutyltin dilaurate 77-58-7	Workers	dermal	Acute/short term exposure - systemic effects		2,08 mg/kg	
dibutyltin dilaurate 77-58-7	Workers	Dermal	Long term exposure - systemic effects		0,43 mg/kg	
dibutyltin dilaurate 77-58-7	Workers	inhalation	Long term exposure - systemic effects		0,02 mg/m3	
dibutyltin dilaurate 77-58-7	General population	dermal	Acute/short term exposure - systemic effects		0,5 mg/kg	
dibutyltin dilaurate 77-58-7	General population	inhalation	Acute/short term exposure - systemic effects		0,04 mg/m3	
dibutyltin dilaurate 77-58-7	General population	oral	Acute/short term exposure - systemic effects		0,02 mg/kg	
dibutyltin dilaurate 77-58-7	General population	dermal	Long term exposure - systemic effects		0,16 mg/kg	
dibutyltin dilaurate 77-58-7	General population	inhalation	Long term exposure - systemic effects		0,005 mg/m3	
dibutyltin dilaurate 77-58-7	General population	oral	Long term exposure - systemic effects		0,003 mg/kg	

### **Biological Exposure Indices:**

None

#### 8.2. Exposure controls:

Engineering controls: Ensure good ventilation/extraction.

Respiratory protection:

In case of aerosol formation, we recommend wearing of appropriate respiratory protection equipment with ABEK P2 filter (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):

nitrile rubber (NBR; >= 0.4 mm thickness)

Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 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), or equivalent.

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

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Physical state	liquid
Delivery form	liquid
Colour	blue
Odor	amine-like
Melting point	Not applicable, Product is a liquid
Initial boiling point	Currently under determination
Flammability	Currently under determination
Explosive limits	Currently under determination
Flash point	Currently under determination
Auto-ignition temperature	Currently under determination
Decomposition temperature	Currently under determination
рН	Currently under determination
Viscosity (kinematic)	Currently under determination
Viscosity, dynamic	400 - 800 mPa.s no method
(; 25 °C (77 °F))	
Solubility (qualitative)	Currently under determination
Partition coefficient: n-octanol/water	Not applicable

Vapour pressure Density (20 °C (68 °F)) Relative vapour density: Particle characteristics

#### 9.2. Other information

Other information not applicable for this product

#### 10.1. Reactivity

None if used for intended purpose.

10.2. Chemical stability Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions See section reactivity

**10.4.** Conditions to avoid None if used for intended purpose.

10.5. Incompatible materials None if used properly.

#### 10.6. Hazardous decomposition products

No decomposition if used according to specifications.

### **SECTION 11: Toxicological information**

#### General toxicological information:

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

#### 1.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Species	Method
CAS-No.	type			
Diethylene glycol	LD50	1.120 mg/kg	Human	not specified
111-46-6				
diethylmethylbenzenedia	LD50	738 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
mine				
68479-98-1				
dibutyltin dilaurate	Acute	500 mg/kg		Expert judgement
77-58-7	toxicity			
	estimate			
	(ATE)			
dibutyltin dilaurate	LD50	500 - 2.000	rat	not specified
77-58-7		mg/kg		

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Mixture Currently under determination 0,98 - 1,02 g/cm3 no method

Currently under determination Not applicable Product is a liquid

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

#### Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
Diethylene glycol 111-46-6	LD50	13.300 mg/kg	rabbit	not specified
dibutyltin dilaurate 77-58-7	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)

#### Acute inhalative toxicity:

No data available.

#### Skin corrosion/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Result	Exposure	Species	Method
CAS-No.		time		
Diethylene glycol	not irritating		Human, three	OECD Guideline 439 (In Vitro Skin Irritation:
111-46-6			dimensional	Reconstructed Human Epidermis (RHE) Test Method)
			epidermis model	
diethylmethylbenzenedia	not irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
mine				
68479-98-1				
dibutyltin dilaurate	not corrosive		Human,	OECD Guideline 431 (In Vitro Skin Corrosion:
77-58-7			EpiSkinTM	Reconstructed Human Epidermis (RHE) Test Method)
			(SM),	
			Reconstructed	
			Human	
			Epidermis (RHE)	
dibutyltin dilaurate	not irritating		Human,	other guideline:
77-58-7			EpiSkinTM	
			(SM),	
			Reconstructed	
			Human	
			Epidermis (RHE)	
dibutyltin dilaurate	not corrosive		Corrositex	OECD Guideline 435 (In Vitro Membrane Barrier Test
77-58-7			Biobarrier	Method for Skin Corrosion)
			Membrane	
			(reconstituted	
			collagen matrix)	

#### Serious eye damage/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Diethylene glycol 111-46-6	not irritating		rabbit	not specified
dibutyltin dilaurate 77-58-7	irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

#### Respiratory or skin sensitization:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances	Result	Test type	Species	Method
CAS-No.				
Diethylene glycol	not sensitising	Guinea pig maximisation	guinea pig	EU Method B.6 (Skin Sensitisation)
111-46-6		test		
dibutyltin dilaurate	Sensitizing	Guinea pig maximisation	guinea pig	OECD Guideline 406 (Skin Sensitisation)
77-58-7		test		

### Germ cell mutagenicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances	Result	Type of study /	Metabolic	Species	Method
CAS-No.		Route of administration	activation / Exposure time		
Diethylene glycol	negative	bacterial reverse	with and without		OECD Guideline 471
111-46-6		mutation assay (e.g Ames test)			(Bacterial Reverse Mutation Assay)
dibutyltin dilaurate	negative	mammalian cell	with and without		OECD Guideline 476 (In vitro
77-58-7		gene mutation assay			Mammalian Cell Gene
					Mutation Test)
dibutyltin dilaurate	positive	in vitro mammalian	with and without		OECD Guideline 473 (In vitro
77-58-7		chromosome			Mammalian Chromosome
		aberration test			Aberration Test)
dibutyltin dilaurate	negative	bacterial reverse	with and without		OECD Guideline 471
77-58-7		mutation assay (e.g			(Bacterial Reverse Mutation
		Ames test)			Assay)
Diethylene glycol	negative	intraperitoneal		mouse	OECD Guideline 474
111-46-6					(Mammalian Erythrocyte
					Micronucleus Test)
diethylmethylbenzenedia	negative	oral: gavage		mouse	OECD Guideline 474
mine	-				(Mammalian Erythrocyte
68479-98-1					Micronucleus Test)
dibutyltin dilaurate	positive	oral: gavage		mouse	OECD Guideline 474
77-58-7					(Mammalian Erythrocyte
					Micronucleus Test)

#### Carcinogenicity

No data available.

#### **Reproductive toxicity:**

No data available.

#### STOT-single exposure:

No data available.

#### STOT-repeated exposure::

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
Diethylene glycol 111-46-6	NOAEL 936 mg/kg	oral: feed	4 weeks daily	rat	OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)
diethylmethylbenzenedia mine 68479-98-1	NOAEL 8 mg/kg	oral: feed	90 days daily	rat	EU Method B.26 (Sub- Chronic Oral Toxicity Test: Repeated Dose 90- Day Oral Toxicity Study in Rodents)

#### Aspiration hazard:

No data available.

### 11.2 Information on other hazards

not applicable

### **SECTION 12: Ecological information**

#### General ecological information:

Do not empty into drains, soil or bodies of water.

#### 12.1. Toxicity

#### Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Diethylene glycol 111-46-6	LC50	75.200 mg/l	96 h	Pimephales promelas	other guideline:
Diethylene glycol 111-46-6	NOEC	15.380 mg/l	7 d	Pimephales promelas	other guideline:
diethylmethylbenzenediamine 68479-98-1	LC50	> 106 mg/l	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
dibutyltin dilaurate 77-58-7	LC50	3,1 mg/l	96 h	Danio rerio	OECD Guideline 203 (Fish, Acute Toxicity Test)

### Toxicity (Daphnia):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Diethylene glycol 111-46-6	EC50	> 10.000 mg/l	24 h	Daphnia magna	DIN 38412, part 11
diethylmethylbenzenediamine 68479-98-1	EC50	0,5 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
dibutyltin dilaurate 77-58-7	EC50	0,463 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

#### Chronic toxicity to aquatic invertebrates

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Diethylene glycol 111-46-6	NOEC	8.590 mg/l	7 d	Ceriodaphnia dubia	other guideline:

Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Diethylene glycol	EC50	> 1.000 mg/l	72 h	not specified	OECD Guideline 201 (Alga,
111-46-6		_			Growth Inhibition Test)
Diethylene glycol	NOEC	> 100 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga,
111-46-6		-		_	Growth Inhibition Test)
dibutyltin dilaurate	IC50	> 3 mg/l	72 h	Scenedesmus subspicatus (new	OECD Guideline 201 (Alga,
77-58-7		_		name: Desmodesmus	Growth Inhibition Test)
				subspicatus)	

### Toxicity to microorganisms

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Diethylene glycol 111-46-6	EC20	> 1.995 mg/l	30 min		ISO 8192 (Test for Inhibition of Oxygen Consumption by Activated Sludge)
diethylmethylbenzenediamine 68479-98-1	EC10	170 mg/l	24 h		not specified
dibutyltin dilaurate 77-58-7	EC50	> 1.000 mg/l	3 h	activated sludge of a predominantly domestic sewage	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

#### 12.2. Persistence and degradability

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
Diethylene glycol 111-46-6	inherently biodegradable	aerobic	100 %	14 d	EU Method C.9 (Biodegradation: Zahn-Wellens Test)
Diethylene glycol 111-46-6	readily biodegradable	aerobic	61 - 77 %	30 d	EU Method C.4-E (Determination of the "Ready" BiodegradabilityClosed Bottle Test)
diethylmethylbenzenediamine 68479-98-1		aerobic	0 %	28 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
dibutyltin dilaurate 77-58-7	not readily biodegradable.	anaerobic	23 %	39 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)

#### 12.3. Bioaccumulative potential

Hazardous substances CAS-No.	Bioconcentratio n factor (BCF)	Exposure time	Temperature	Species	Method
Diethylene glycol 111-46-6	100	3 d		Leuciscus idus melanotus	other guideline:
dibutyltin dilaurate 77-58-7	31 - 155			Cyprinus carpio	OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)

12.4. Mobility in soil

Hazardous substances CAS-No.	LogPow	Temperature	Method
Diethylene glycol 111-46-6	-1,98		QSAR (Quantitative Structure Activity Relationship)
dibutyltin dilaurate 77-58-7	4,44	20,8 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

### 12.5. Results of PBT and vPvB assessment

Hazardous substances	PBT / vPvB
CAS-No.	
Diethylene glycol	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
111-46-6	Bioaccumulative (vPvB) criteria.
diethylmethylbenzenediamine	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
68479-98-1	Bioaccumulative (vPvB) criteria.
dibutyltin dilaurate	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
77-58-7	Bioaccumulative (vPvB) criteria.

#### 12.6. Endocrine disrupting properties

not applicable

#### 12.7. 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.

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### **SECTION 14: Transport information**

#### 14.1. UN number or ID number ADR 3082 RID 3082 ADN 3082 IMDG 3082 IATA 3082 14.2. UN proper shipping name ADR ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diethyltoluene diamine) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. RID (Diethyltoluene diamine) ADN ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diethyltoluene diamine) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. IMDG (Diethyltoluene diamine) IATA Environmentally hazardous substance, liquid, n.o.s. (Diethyltoluene diamine) 14.3. Transport hazard class(es) ADR 9 9 RID 9 ADN IMDG 9 9 IATA 14.4. Packing group III ADR RID Ш ADN III IMDG Ш IATA Ш 14.5. **Environmental hazards** ADR not applicable RID not applicable ADN not applicable Marine pollutant IMDG not applicable IATA 14.6. Special precautions for user ADR not applicable Tunnelcode: RID not applicable ADN not applicable IMDG not applicable not applicable IATA

The transport classifications in this section apply generally to packed and bulk goods alike. For containers with a net volume of no more than 5 L for liquid substances or a net mass of no more than 5 kg for solid substances per individual or inner package, the exemptions SP 375 (ADR), A197 (IATA), 2.10.2.7 (IMDG) may be applied, which can result in a deviation from the transport classification for packed goods.

#### 14.7. Maritime transport in bulk according to IMO instruments

not applicable

### **SECTION 15: Regulatory information**

<b>15.1. Safety, health and environmental regu</b> Ozone Depleting Substance (ODS) (Regulati Prior Informed Consent (PIC) (Regulation (E	on (EC) No 1005/2009):	e substance or mixture Not applicable dibutyltin dilaurate CAS 77-58-7		
Persistent organic pollutants (Regulation (EU VOC content (2010/75/EU)	J) 2019/1021): 0 %	Not applicable		
<b>15.2. Chemical safety assessment</b> A chemical safety assessment has been carried out.				
National regulations/information (Germany):				
WGK:	WGK 3: highly hazardous to wate substances that are hazardous to w	er (Ordinance on facilities for handling water (AwSV))		

Classification according to AwSV, Annex 1 (5.2)

Storage class according to TRGS 510: 10

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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:

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H341 Suspected of causing genetic defects.

H360FD May damage fertility. May damage 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.

ED:	Substance identified as having endocrine disrupting properties
EU OEL:	Substance with a Union workplace exposure limit
EU EXPLD 1:	Substance listed in Annex I, Reg (EC) No. 2019/1148
EU EXPLD 2	Substance listed in Annex II, Reg (EC) No. 2019/1148
SVHC:	Substance of very high concern (REACH Candidate List)
PBT:	Substance fulfilling persistent, bioaccumulative and toxic criteria
PBT/vPvB:	Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very
	bioaccumulative criteria
vPvB:	Substance fulfilling very persistent and very bioaccumulative criteria

#### **Further information:**

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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.

#### Dear Customer,

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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.