

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

Page 1 of 23

SDS No.: 541371

V011.0 Revision: 05.02.2024

printing date: 08.02.2024

Replaces version from: 03.10.2023

LOCTITE 577 TTL250ML PL/HU/RO

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

#### 1.1. Product identifier

LOCTITE 577 TTL250ML PL/HU/RO

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

Intended use:

Adhesive

### 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

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

SDSinfo.Adhesive@henkel.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):**

Skin irritation Category 2

H315 Causes skin irritation.

Serious eye irritation Category 2

H319 Causes serious eye irritation.

Skin sensitizer Category 1

H317 May cause an allergic skin reaction.

Specific target organ toxicity - single exposure Category 3

H335 May cause respiratory irritation. Target organ: respiratory tract irritation

## 2.2. Label elements

### Label elements (CLP):

Page 2 of 23

V011.0

SDS No.: 541371

Hazard pictogram:



**Contains** Tetramethylene dimethacrylate

2,2'-Ethylenedioxydiethyl dimethacrylate

Acetic acid, 2-phenylhydrazide

maleic acid

Reaction mass of N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide), Octadecanamide, 12-hydroxy-N-[2-[(1-oxooctadecyl)amino]ethyl]

Signal word: Warning

**Hazard statement:** H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H335 May cause respiratory irritation.

**Precautionary statement:** "\*\*\*For consumer use only: P101 If medical advice is needed, have product

container or label at hand. P102 Keep out of reach of children. P501 Dispose of

contents/container in accordance with national regulation.\*\*\*

Precautionary statement:P261 Avoid breathing vapors.PreventionP280 Wear protective gloves.

1 200 Wear protective groves.

**Precautionary statement:** P333+P313 If skin irritation or rash occurs: Get medical advice/attention. **Response** P337+P313 If eye irritation persists: Get medical advice/attention.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

#### 2.3. Other hazards

None if used properly.

Following substances are present in a concentration ≥ 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 ≥ 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

SDS No.: 541371 V011.0

### 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
Tetramethylene dimethacrylate 2082-81-7 218-218-1 01-2119967415-30	10- 20 %	Skin Sens. 1B, H317 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	STOT SE 3; H335; C >= 10 %	
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0 203-652-6 01-2119969287-21	5- < 10 %	Skin Sens. 1B, H317	dermal:ATE = > 5.000 mg/kg inhalation:ATE = 28,17 mg/l;dust/mist	
Acetic acid, 2-phenylhydrazide 114-83-0 204-055-3	0,1-< 1 %	Acute Tox. 3, Oral, H301 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 STOT SE 3, Inhalation, H335 Carc. 2, H351		
Cumene hydroperoxide 80-15-9 201-254-7 01-2119475796-19	0,1-< 1 %	STOT RE 2, H373 Skin Corr. 1B, H314 Acute Tox. 2, Inhalation, H330 Aquatic Chronic 2, H411 Acute Tox. 4, Oral, H302 Acute Tox. 4, Dermal, H312 Org. Perox. E, H242 STOT SE 3, H335	Eye Irrit. 2; H319; C 1 - < 3 % Skin Irrit. 2; H315; C 3 - < 10 % Eye Dam. 1; H318; C 3 - < 10 % STOT SE 3; H335; C >= 1 % Skin Corr. 1B; H314; C >= 10 % ===== dermal:ATE = 1.100 mg/kg	
maleic acid 110-16-7 203-742-5 01-2119488705-25	0,1-< 1 %	Acute Tox. 4, Oral, H302 Eye Irrit. 2, H319 STOT SE 3, H335 Skin Irrit. 2, H315 Skin Sens. 1, H317 Acute Tox. 4, Dermal, H312	Skin Sens. 1; H317; C >= 0,1 %	
Reaction mass of N,N'-ethane- 1,2-diylbis(12- hydroxyoctadecan-1-amide), Octadecanamide, 12-hydroxy-N- [2-[(1-oxooctadecyl)amino]ethyl]  204-613-6 01-2119978265-26	0,1-< 1 %	Skin Sens. 1, H317		
Menadione 58-27-5 200-372-6 01-2120773243-56	0,0025-< 0,025 % ( 25 ppm-< 250 ppm)	Acute Tox. 4, Oral, H302 Eye Irrit. 2, H319 Skin Irrit. 2, H315 STOT SE 3, H335 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M acute = 10 M chronic = 10	

If no ATE values are displayed, please refer to LD/LC50 values in Section 11. For full text of the  $\rm H$  - statements and other abbreviations see section 16 "Other information".

# **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

Inhalation:

Move to fresh air, consult doctor if complaint persists.

V011.0

Skin contact:

SDS No.: 541371

Rinse with running water and soap.

Obtain medical attention if irritation persists.

Eve contact:

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

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

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

SKIN: Rash, Urticaria.

EYE: Irritation, conjunctivitis.

SKIN: Redness, inflammation.

#### 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:

carbon dioxide, foam, powder, water spray jet, fine water spray

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

High pressure waterjet

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

In the event of a fire, carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx) can be released.

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

Wear self-contained breathing apparatus.

Wear protective equipment.

#### Additional information:

In case of fire, keep containers cool with water spray.

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

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

Ensure adequate ventilation.

Avoid contact with skin and eyes.

Wear protective equipment.

#### 6.2. Environmental precautions

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

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

For small spills wipe up with paper towel and place in container for disposal.

For large spills absorb onto inert absorbent material and place in sealed container for disposal.

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**

Page 5 of 23

V011.0

SDS No.: 541371

### 7.1. Precautions for safe handling

Avoid skin and eye contact. See advice in section 8

### Hygiene measures:

Wash hands before work breaks and after finishing work. Do not eat, drink or smoke while working. Good industrial hygiene practices should be observed.

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

Ensure good ventilation/extraction. Store in a cool, dry place. Refer to Technical Data Sheet

### 7.3. Specific end use(s)

Adhesive

# **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
Ethene, homopolymer 9002-88-4		1,25	Exposure limit(s):	If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
Ethene, homopolymer 9002-88-4		10	Exposure limit(s):	If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
Ethene, homopolymer 9002-88-4			Short Term Exposure Classification:	Category II: substances with a resorptive effect.	TRGS 900
Silicon dioxide 112945-52-5		4	Exposure limit(s):	If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
Silicon dioxide 112945-52-5		1,25	Exposure limit(s):	If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
Silicon dioxide 112945-52-5		10	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
Silicon dioxide 112945-52-5			Short Term Exposure Classification:	Category II: substances with a resorptive effect.	TRGS 900

Page 6 of 23

V011.0

SDS No.: 541371

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

Name on list	Environmental Compartment	Exposure period	Value				Remarks
	Compartment	periou	mg/l	ppm	mg/kg	others	
Tetramethylene dimethacrylate	aqua		0,043 mg/l				
2082-81-7	(freshwater)		0.004				
Tetramethylene dimethacrylate 2082-81-7	aqua (marine water)		0,004 mg/l				
Tetramethylene dimethacrylate	aqua		0,098 mg/l				
2082-81-7	(intermittent		1,,,,,,,,				
	releases)						
Tetramethylene dimethacrylate 2082-81-7	sewage treatment plant		2 mg/l				
2002-01-7	(STP)						
Tetramethylene dimethacrylate	sediment				3,12 mg/kg		
2082-81-7	(freshwater)						
Tetramethylene dimethacrylate	sediment (marine water)				0,312		
2082-81-7 Tetramethylene dimethacrylate	Soil			1	mg/kg 0,573		
2082-81-7	Son				mg/kg		
2,2'-Ethylenedioxydiethyl dimethacrylate	aqua		0,164 mg/l				
109-16-0	(freshwater)		0.0151			-	
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	aqua (marine water)		0,0164 mg/l				
2,2'-Ethylenedioxydiethyl dimethacrylate	sewage		10 mg/l	1		<u> </u>	
109-16-0	treatment plant						
	(STP)			1		1	
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	aqua (intermittent		0,164 mg/l				
109-10-0	releases)						
2,2'-Ethylenedioxydiethyl dimethacrylate	sediment				1,85 mg/kg		
109-16-0	(freshwater)						
2,2'-Ethylenedioxydiethyl dimethacrylate	sediment				0,185		
109-16-0 2,2'-Ethylenedioxydiethyl dimethacrylate	(marine water) Soil				mg/kg 0,274		
109-16-0	3011				mg/kg		
2,2'-Ethylenedioxydiethyl dimethacrylate	Air						no hazard identified
109-16-0							
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	Predator						no potential for bioaccumulation
.alpha.,.alphaDimethylbenzyl	aqua		0,0031				bioaccumulation
hydroperoxide	(freshwater)		mg/l				
80-15-9							
.alpha.,.alphaDimethylbenzyl	aqua		0,031 mg/l				
hydroperoxide 80-15-9	(intermittent releases)						
.alpha.,.alphaDimethylbenzyl	aqua (marine		0,00031				
hydroperoxide	water)		mg/l				
80-15-9			0.05 //				
.alpha.,.alphaDimethylbenzyl hydroperoxide	sewage treatment plant		0,35 mg/l				
80-15-9	(STP)						
.alpha.,.alphaDimethylbenzyl	sediment				0,023		
hydroperoxide	(freshwater)				mg/kg		
80-15-9 .alpha.,.alphaDimethylbenzyl	sediment				0,0023		
.aipna.,.aipnaDimetnyioenzyi hydroperoxide	(marine water)				mg/kg		
80-15-9	, ,						
.alpha.,.alphaDimethylbenzyl	Soil				0,0029		
hydroperoxide 80-15-9					mg/kg		
Maleic acid	aqua		0,1 mg/l				
110-16-7	(freshwater)		, in				
Maleic acid	aqua		0,4281				
110-16-7	(intermittent releases)		mg/l				
Maleic acid	sediment				0,334	<u> </u>	
110-16-7	(freshwater)				mg/kg		
Maleic acid	sewage		44,6 mg/l				
110-16-7	treatment plant	l	1	1		1	i

V011.0

SDS No.: 541371 Page 7 of 23

Maleic acid	aqua (marine	0,01 mg/l		
110-16-7	water)			
Maleic acid	sediment		0,0334	
110-16-7	(marine water)		mg/kg	
Maleic acid	Soil		0,0415	
110-16-7			mg/kg	

Page 8 of 23

SDS No.: 541371 V011.0

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

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Tetramethylene dimethacrylate 2082-81-7	Workers	dermal	Long term exposure - systemic effects		4,2 mg/kg	
Tetramethylene dimethacrylate 2082-81-7	Workers	inhalation	Long term exposure - systemic effects		14,5 mg/m3	
Tetramethylene dimethacrylate 2082-81-7	General population	inhalation	Long term exposure - systemic effects		4,3 mg/m3	
Tetramethylene dimethacrylate 2082-81-7	General population	dermal	Long term exposure - systemic effects		2,5 mg/kg	
Tetramethylene dimethacrylate 2082-81-7	General population	oral	Long term exposure - systemic effects		2,5 mg/kg	
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	Workers	inhalation	Long term exposure - systemic effects		48,5 mg/m3	no hazard identified
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	Workers	dermal	Long term exposure - systemic effects		13,9 mg/kg	no hazard identified
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	General population	inhalation	Long term exposure - systemic effects		14,5 mg/m3	no hazard identified
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	General population	dermal	Long term exposure - systemic effects		8,33 mg/kg	no hazard identified
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	General population	oral	Long term exposure - systemic effects		8,33 mg/kg	no hazard identified
.alpha.,.alphaDimethylbenzyl hydroperoxide 80-15-9	Workers	inhalation	Long term exposure - systemic effects		6 mg/m3	
Maleic acid 110-16-7	Workers	dermal	Acute/short term exposure - local effects			
Maleic acid 110-16-7	Workers	dermal	Long term exposure - local effects			
Maleic acid 110-16-7	Workers	dermal	Acute/short term exposure - systemic effects			
Maleic acid 110-16-7	Workers	dermal	Long term exposure - systemic effects			
Maleic acid 110-16-7	Workers	inhalation	Acute/short term exposure - local effects		3 mg/m3	
Maleic acid 110-16-7	Workers	inhalation	Long term exposure - systemic effects		3 mg/m3	
Maleic acid 110-16-7	Workers	inhalation	Long term exposure - local effects		3 mg/m3	
Maleic acid 110-16-7	Workers	inhalation	Acute/short term exposure - systemic effects		3 mg/m3	
N,N'-Ethane-1,2-diylbis(12- hydroxyoctadecan-1-amide)	Workers	inhalation	Long term exposure - systemic effects		35,24 mg/m3	
N,N'-Ethane-1,2-diylbis(12- hydroxyoctadecan-1-amide)	Workers	inhalation	Acute/short term exposure - systemic effects		35,24 mg/m3	
N,N'-Ethane-1,2-diylbis(12- hydroxyoctadecan-1-amide)	Workers	inhalation	Long term exposure - local effects		3,35 mg/m3	
N,N'-Ethane-1,2-diylbis(12- hydroxyoctadecan-1-amide)	Workers	inhalation	Acute/short term exposure - local		3,35 mg/m3	

V011.0

SDS No.: 541371

		1	effects		1
N,N'-Ethane-1,2-diylbis(12- hydroxyoctadecan-1-amide)	General population	inhalation	Long term exposure - systemic effects	8,69 mg/m3	
N,N'-Ethane-1,2-diylbis(12- hydroxyoctadecan-1-amide)	General population	inhalation	Acute/short term exposure - systemic effects	8,69 mg/m3	
N,N'-Ethane-1,2-diylbis(12- hydroxyoctadecan-1-amide)	General population	inhalation	Long term exposure - local effects	0,83 mg/m3	
N,N'-Ethane-1,2-diylbis(12- hydroxyoctadecan-1-amide)	General population	inhalation	Acute/short term exposure - local effects	0,83 mg/m3	
N,N'-Ethane-1,2-diylbis(12- hydroxyoctadecan-1-amide)	General population	oral	Long term exposure - systemic effects	5 mg/kg	
N,N'-Ethane-1,2-diylbis(12- hydroxyoctadecan-1-amide)	General population	oral	Acute/short term exposure - systemic effects	5 mg/kg	

### **Biological Exposure Indices:**

None

#### 8.2. Exposure controls:

Engineering controls:

Ensure good ventilation/extraction.

Respiratory protection:

Ensure adequate ventilation.

An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area

Filter type: A (EN 14387)

### 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:

Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing. Protective eye equipment should conform to EN166.

### Skin protection:

Wear suitable protective clothing.

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

### Advices to personal protection equipment:

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

Delivery form liquid

SDS No.: 541371 V011.0

pН

Colour yellow Odor mild, Acrylic Physical state liquid

Melting point Not applicable, Product is a liquid

Solidification temperature < -30 °C (< -22 °F)

Initial boiling point  $>150~^{\circ}C$  (> 302  $^{\circ}F)$ no method / method unknown

Flammability The product is not flammable.

Not applicable, The product is not flammable. Explosive limits  $> 100 \, ^{\circ}\text{C} \, (> 212 \, ^{\circ}\text{F});$  no method / method unknown Flash point Auto-ignition temperature Not applicable, The product is not flammable.

Not applicable, Substance/mixture is not self-reactive, no organic Decomposition temperature

peroxide and does not decompose under foreseen conditions of use

Not applicable, Product is non-polar/aprotic.

Viscosity (kinematic) > 20,5 mm2/s

(40 °C (104 °F); ) Viscosity, dynamic

70.000,00 - 130.000,00 mPa.s LCT STM 10; Viscosity Brookfield (Brookfield; Instrument: RVT; 25 °C (77 °F);

Slight

speed of rotation: 2,5 min-1; Spindle No: 6)

Solubility (qualitative) (20 °C (68 °F); Solvent: Water)

Partition coefficient: n-octanol/water Not applicable Mixture Vapour pressure < 300 mbar;no method / method unknown

(50 °C (122 °F)) Vapour pressure < 0,13 mbar (20 °C (68 °F))

Density 1,15 - 1,2 g/cm3 no method / method unknown (20 °C (68 °F))

Relative vapour density: > 1

(20 °C)

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

Reacts with strong oxidants.

Strong bases.

Acids.

Reducing agents.

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

See section reactivity

### 10.4. Conditions to avoid

Stable under normal conditions of storage and use.

#### 10.5. Incompatible materials

See section reactivity.

### 10.6. Hazardous decomposition products

carbon oxides.

Hydrocarbons

Rapid polymerisation may generate excessive heat and pressure.

nitrogen oxides

V011.0

SDS No.: 541371

# **SECTION 11: Toxicological information**

# 11.1 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
Tetramethylene dimethacrylate 2082-81-7	LD50	10.066 mg/kg	rat	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	LD50	10.837 mg/kg	rat	not specified
Acetic acid, 2- phenylhydrazide 114-83-0	LD50	270 mg/kg	rat	not specified
Cumene hydroperoxide 80-15-9	LD50	382 mg/kg	rat	other guideline:
maleic acid 110-16-7	LD50	708 mg/kg	rat	not specified
Reaction mass of N,N'- ethane-1,2-diylbis(12- hydroxyoctadecan-1- amide), Octadecanamide, 12-hydroxy-N-[2-[(1- oxooctadecyl)amino]ethyl ]	LD50	> 2.000 mg/kg	rat	OECD Guideline 423 (Acute Oral toxicity)
Menadione 58-27-5	LD50	500 mg/kg	rat	not specified

## 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			
Tetramethylene dimethacrylate 2082-81-7	LD50	> 3.000 mg/kg	rabbit	not specified
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	Acute toxicity estimate (ATE)	> 5.000 mg/kg		Expert judgement
Cumene hydroperoxide 80-15-9	Acute toxicity estimate (ATE)	1.100 mg/kg		Expert judgement
maleic acid 110-16-7	LD50	1.560 mg/kg	rabbit	not specified

Page 12 of 23

V011.0

SDS No.: 541371

# Acute inhalative toxicity:

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

Hazardous substances CAS-No.	Value	Value	Test atmosphere	Exposure time	Species	Method
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	Acute toxicity estimate (ATE)	28,17 mg/l	dust/mist	time		Expert judgement
Cumene hydroperoxide 80-15-9	LC50	1,370 mg/l	vapour	4 h	rat	not specified
Reaction mass of N,N'- ethane-1,2-diylbis(12- hydroxyoctadecan-1- amide), Octadecanamide, 12-hydroxy-N-[2-[(1- oxooctadecyl)amino]ethyl ]	LC50	> 5,05 mg/l	dust/mist	4 h	rat	OECD Guideline 436 (Acute Inhalation Toxicity: Acute Toxic Class (ATC) Method)

### 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		
Tetramethylene	not irritating	24 h	rabbit	FDA Guideline
dimethacrylate				
2082-81-7				
2,2'-Ethylenedioxydiethyl	not irritating	24 h	rabbit	Draize Test
dimethacrylate				
109-16-0				
Cumene hydroperoxide	corrosive		rabbit	Draize Test
80-15-9				
maleic acid	irritating	24 h	human	Patch Test
110-16-7	_			
Menadione	not corrosive		Human,	OECD Guideline 431 (In Vitro Skin Corrosion:
58-27-5			EpiDermTM SIT	Reconstructed Human Epidermis (RHE) Test Method)
			(EPI-200),	
			Reconstructed	
			Human	
			Epidermis (RHE)	
Menadione	irritating or		Human,	OECD Guideline 439 (In Vitro Skin Irritation:
58-27-5	corrosive		EpiSkinTM	Reconstructed Human Epidermis (RHE) Test Method)
			(SM),	
			Reconstructed	
			Human	
			Epidermis (RHE)	

V011.0

SDS No.: 541371

# Serious eye damage/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		
Tetramethylene	not irritating		rabbit	equivalent or similar to OECD Guideline 405 (Acute Eye
dimethacrylate				Irritation / Corrosion)
2082-81-7				
2,2'-Ethylenedioxydiethyl	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
dimethacrylate				
109-16-0				
maleic acid	highly		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
110-16-7	irritating			
Menadione	no prediction		Bovine, cornea,	OECD Guideline 437 (BCOP)
58-27-5	can be made		in vitro test	
Menadione	no prediction		Reconstructed	OECD Guideline 492 (Reconstructed Human Cornea-like
58-27-5	can be made		three	Epithelium (RhCE) Test Method)
			dimensional	
			human cornea	
			model	
			(EpiOcular <sup>TM</sup> )	

# Respiratory or skin sensitization:

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

Hazardous substances CAS-No.	Result	Test type	Species	Method
Tetramethylene dimethacrylate 2082-81-7	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
maleic acid 110-16-7	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
maleic acid 110-16-7	sensitising	Mouse local lymphnode assay (LLNA)	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Reaction mass of N,N'- ethane-1,2-diylbis(12- hydroxyoctadecan-1- amide), Octadecanamide, 12-hydroxy-N-[2-[(1- oxooctadecyl)amino]ethyl ]	sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Menadione 58-27-5	sensitising	Guinea pig maximisation test	guinea pig	not specified

V011.0

SDS No.: 541371

### 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
Tetramethylene	negative	in vitro mammalian	with and without		OECD Guideline 476 (In vitro
dimethacrylate		chromosome			Mammalian Cell Gene
2082-81-7		aberration test			Mutation Test)
Tetramethylene	negative	bacterial reverse	with and without		OECD Guideline 471
dimethacrylate		mutation assay (e.g			(Bacterial Reverse Mutation
2082-81-7		Ames test)			Assay)
Tetramethylene	positive	in vitro mammalian	with and without		OECD Guideline 473 (In vitro
dimethacrylate		chromosome			Mammalian Chromosome
2082-81-7		aberration test			Aberration Test)
2,2'-Ethylenedioxydiethyl	negative	mammalian cell	with and without		OECD Guideline 476 (In vitro
dimethacrylate		gene mutation assay			Mammalian Cell Gene
109-16-0					Mutation Test)
2,2'-Ethylenedioxydiethyl	negative	bacterial reverse	with and without		OECD Guideline 471
dimethacrylate		mutation assay (e.g			(Bacterial Reverse Mutation
109-16-0		Ames test)			Assay)
2,2'-Ethylenedioxydiethyl	negative	in vitro mammalian	with and without		OECD Guideline 487 (In vitro
dimethacrylate		cell micronucleus			Mammalian Cell
109-16-0		test			Micronucleus Test)
Cumene hydroperoxide	positive	bacterial reverse	without		OECD Guideline 471
80-15-9	1	mutation assay (e.g			(Bacterial Reverse Mutation
		Ames test)			Assay)
maleic acid	negative	bacterial reverse	no data		Ames Test
110-16-7		mutation assay (e.g			
		Ames test)			
maleic acid	negative	mammalian cell	with and without		OECD Guideline 476 (In vitro
110-16-7		gene mutation assay			Mammalian Cell Gene
					Mutation Test)
Menadione	negative	bacterial reverse	with and without		OECD Guideline 471
58-27-5	_	mutation assay (e.g			(Bacterial Reverse Mutation
		Ames test)			Assay)
Cumene hydroperoxide	negative	dermal		mouse	not specified
80-15-9	_				-

## Carcinogenicity

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

Hazardous components	Result	Route of	Exposure	Species	Sex	Method
CAS-No.		application	time /			
			Frequency			
			of treatment			
maleic acid	not carcinogenic	oral: feed	2 y	rat	male/female	OECD Guideline 451
110-16-7	_		daily			(Carcinogenicity
						Studies)

### Reproductive toxicity:

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

Hazardous substances	Result / Value	Test type	Route of	Species	Method
CAS-No.			application		
2,2'-Ethylenedioxydiethyl	NOAEL P 1.000 mg/kg		oral: gavage	rat	OECD Guideline 422
dimethacrylate					(Combined Repeated Dose
109-16-0	NOAEL F1 1.000 mg/kg				Toxicity Study with the
					Reproduction /
					Developmental Toxicity
					Screening Test)
maleic acid	NOAEL F1 150 mg/kg	Two	oral: gavage	rat	OECD Guideline 416 (Two-
110-16-7		generation			Generation Reproduction
	NOAEL F2 55 mg/kg	study			Toxicity Study)
		,			

V011.0

SDS No.: 541371

# 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	Species	Method
			treatment		
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	NOAEL 1.000 mg/kg	oral: gavage	daily	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Cumene hydroperoxide 80-15-9		inhalation: aerosol	6 h/d 5 d/w	rat	not specified
maleic acid 110-16-7	NOAEL >= 40 mg/kg	oral: feed	90 d daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

### **Aspiration hazard:**

No data available.

### 11.2 Information on other hazards

not applicable

Page 16 of 23

V011.0

SDS No.: 541371

# **SECTION 12: Ecological information**

### General ecological information:

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

### 12.1. Toxicity

## **Toxicity (Fish):**

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

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No. Tetramethylene dimethacrylate 2082-81-7	LC50	32,5 mg/l	48 h		DIN 38412-15
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	LC50	16,4 mg/l	96 h	Danio rerio	OECD Guideline 203 (Fish, Acute Toxicity Test)
Cumene hydroperoxide 80-15-9	LC50	3,9 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
maleic acid 110-16-7	LC50	> 245 mg/l	48 h	Leuciscus idus	DIN 38412-15
Reaction mass of N,N'- ethane-1,2-diylbis(12- hydroxyoctadecan-1-amide), Octadecanamide, 12-hydroxy- N-[2-[(1- oxooctadecyl)amino]ethyl]	LL50	Toxicity > Water solubility	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Reaction mass of N,N'- ethane-1,2-diylbis(12- hydroxyoctadecan-1-amide), Octadecanamide, 12-hydroxy- N-[2-[(1- oxooctadecyl)amino]ethyl]	NOELR	Toxicity > Water solubility	32 d	Pimephales promelas	OECD Guideline 210 (fish early lite stage toxicity test)

# Toxicity (aquatic invertebrates):

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

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Cumene hydroperoxide	EC50	18,84 mg/l	48 h	Daphnia magna	OECD Guideline 202
80-15-9					(Daphnia sp. Acute
					Immobilisation Test)
maleic acid	EC50	42,81 mg/l	48 h	Daphnia magna	OECD Guideline 202
110-16-7					(Daphnia sp. Acute
					Immobilisation Test)
Reaction mass of N,N'-	EL50	Toxicity > Water	48 h	Daphnia magna	OECD Guideline 202
ethane-1,2-diylbis(12-		solubility			(Daphnia sp. Acute
hydroxyoctadecan-1-amide),		•			Immobilisation Test)
Octadecanamide, 12-hydroxy-					, ,
N-[2-[(1-					
oxooctadecyl)amino]ethyl]					
Menadione	EC50	0,31 mg/l	48 h	Daphnia magna	OECD Guideline 202
58-27-5					(Daphnia sp. Acute
					Immobilisation Test)

### Chronic toxicity (aquatic invertebrates):

SDS No.: 541371

V011.0

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Tetramethylene dimethacrylate 2082-81-7	NOEC	5,09 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	NOEC	32 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
maleic acid 110-16-7	NOEC	10 mg/l	21 d	Daphnia magna	other guideline:
Reaction mass of N,N'- ethane-1,2-diylbis(12- hydroxyoctadecan-1-amide), Octadecanamide, 12-hydroxy- N-[2-[(1- oxooctadecyl)amino]ethyl]	NOEC	Toxicity > Water solubility	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)

Toxicity (Algae):

V011.0

SDS No.: 541371

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

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Tetramethylene dimethacrylate 2082-81-7	EC50	9,79 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Tetramethylene dimethacrylate 2082-81-7	NOEC	2,11 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	EC50	> 100 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	NOEC	18,6 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Cumene hydroperoxide 80-15-9	EC50	3,1 mg/l	72 h	Desmodesmus subspicatus (reported as Scenedesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Cumene hydroperoxide 80-15-9	NOEC	1 mg/l	72 h	Desmodesmus subspicatus (reported as Scenedesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
maleic acid 110-16-7	EC50	74,35 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
maleic acid 110-16-7	EC10	11,8 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Reaction mass of N,N'- ethane-1,2-diylbis(12- hydroxyoctadecan-1-amide), Octadecanamide, 12-hydroxy- N-[2-[(1- oxooctadecyl)amino]ethyl]	EC50	Toxicity > Water solubility	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Reaction mass of N,N'- ethane-1,2-diylbis(12- hydroxyoctadecan-1-amide), Octadecanamide, 12-hydroxy- N-[2-[(1- oxooctadecyl)amino]ethyl]	EC10	Toxicity > Water solubility	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Menadione 58-27-5	EC50	0,064 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Menadione 58-27-5	NOEC	0,009 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)

# Toxicity (microorganisms):

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

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Tetramethylene dimethacrylate 2082-81-7	NOEC	20 mg/l	28 d	activated sludge, domestic	not specified
Cumene hydroperoxide 80-15-9	EC10	70 mg/l	30 min	not specified	not specified
maleic acid 110-16-7	EC10	44,6 mg/l	18 h	Pseudomonas putida	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm- Test)

### 12.2. Persistence and degradability

The product is not biodegradable.

V011.0

SDS No.: 541371

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
Tetramethylene dimethacrylate 2082-81-7	readily biodegradable	aerobic	84 %	28 d	OECD Guideline 310 (Ready BiodegradabilityCO2 in Sealed Vessels (Headspace Test)
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	readily biodegradable	aerobic	85 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Cumene hydroperoxide 80-15-9	not readily biodegradable.	aerobic	3 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
maleic acid 110-16-7	readily biodegradable	aerobic	97,08 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Reaction mass of N,N'- ethane-1,2-diylbis(12- hydroxyoctadecan-1-amide), Octadecanamide, 12-hydroxy- N-[2-[(1- oxooctadecyl)amino]ethyl]	not readily biodegradable.	aerobic	22 %	28 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Reaction mass of N,N'- ethane-1,2-diylbis(12- hydroxyoctadecan-1-amide), Octadecanamide, 12-hydroxy- N-[2-[(1- oxooctadecyl)amino]ethyl]	not inherently biodegradable	aerobic	37 %	60 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Menadione 58-27-5	not inherently biodegradable	aerobic	0,000000 %	28 d	OECD Guideline 302 C (Inherent Biodegradability: Modified MITI Test (II))

# 12.3. Bioaccumulative potential

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Bioconcentratio n factor (BCF)	Exposure time	Temperature	Species	Method
Cumene hydroperoxide	9,1			calculation	OECD Guideline 305
80-15-9					(Bioconcentration: Flow-through
					Fish Test)

Page 20 of 23

V011.0

SDS No.: 541371

### 12.4. Mobility in soil

Cured adhesives are immobile.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	LogPow	Temperature	Method
Tetramethylene dimethacrylate 2082-81-7	3,1		OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	2,3		OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
Acetic acid, 2- phenylhydrazide 114-83-0	0,74		not specified
Cumene hydroperoxide 80-15-9	1,6	25 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
maleic acid 110-16-7	-1,3	20 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
Reaction mass of N,N'- ethane-1,2-diylbis(12- hydroxyoctadecan-1-amide), Octadecanamide, 12-hydroxy- N-[2-[(1- oxooctadecyl)amino]ethyl]	5,86		OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
Menadione 58-27-5	2,43	30 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)

## 12.5. Results of PBT and vPvB assessment

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	PBT / vPvB
CAS-No.	
Tetramethylene dimethacrylate	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
2082-81-7	Bioaccumulative (vPvB) criteria.
2,2'-Ethylenedioxydiethyl dimethacrylate	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
109-16-0	Bioaccumulative (vPvB) criteria.
Cumene hydroperoxide	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
80-15-9	Bioaccumulative (vPvB) criteria.
maleic acid	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
110-16-7	Bioaccumulative (vPvB) criteria.
Menadione	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
58-27-5	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

Page 21 of 23

V011.0

SDS No.: 541371

### Product disposal:

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

Dispose of in accordance with local and national regulations.

### Disposal of uncleaned packages:

After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.

#### Waste code

08 04 09\* waste adhesives and sealants containing organic solvents and other dangerous substances

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.

# **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

### 14.2. UN proper shipping name

Not dangerous goods
Not dangerous goods

#### 14.3. Transport hazard 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 precautions for user

ADR not applicable

SDS No.: 541371 V011.0

RID not applicable
ADN not applicable
IMDG not applicable
IATA not applicable

### 14.7. Maritime transport 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 < 3 %

(2010/75/EC)

#### 15.2. Chemical safety assessment

A chemical safety assessment has not 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)

Storage class according to TRGS 510: 10

V011.0

SDS No.: 541371

#### **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:

H242 Heating may cause a fire.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

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.

H330 Fatal if inhaled.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

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.

H411 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:**

This Safety Data Sheet has been produced for sales from Henkel to parties purchasing from Henkel, is based on Regulation (EC) No 1907/2006 and provides information in accordance with applicable regulations of the European Union only. In that respect, no statement, warranty or representation of any kind is given as to compliance with any statutory laws or regulations of any other jurisdiction or territory other than the European Union. When exporting to territories other than the European Union, please consult with the respective Safety Data Sheet of the concerned territory to ensure compliance or liaise with Henkel's Product Safety and Regulatory Affairs Department (SDSinfo.Adhesive@henkel.com) prior to export to other territories than the European Union.

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,

Henkel is committed to creating a sustainable future by promoting opportunities along the entire value chain. If you would like to contribute by switching from a paper to the electronic version of SDS, please contact the local Customer Service representative. We recommend to use a non-personal email address (e.g. SDS@your\_company.com).

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.