

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

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### LOCTITE 574

SDS No.: 153497 V007.4 Revision: 11.05.2020 printing date: 20.11.2020 Replaces version from: 09.01.2018

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

# **1.1. Product identifier**

- LOCTITE 574
- **1.2. Relevant identified uses of the substance or mixture and uses advised against** Intended use: Anaerobic Sealant
- **1.3. Details of the supplier of the safety data sheet** Henkel Ltd Wood Lana End

Wood Lane End HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 1442 278000 Fax-no.: +44 1442 278071

ua-productsafety.uk@henkel.com

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

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

**SECTION 2: Hazards identification** 

### 2.1. Classification of the substance or mixture

### Classification (CLP):

Skin sensitizer H317 May cause an allergic skin reaction.

### 2.2. Label elements

Label elements (CLP):

Hazard pictogram:



Contains

Acetic acid, 2-phenylhydrazide

maleic acid

N,N'-Ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)

Category 1

Signal word:	Warning
Hazard statement:	H317 May cause an allergic skin reaction.
Precautionary statement: Prevention	P280 Wear protective gloves.
Precautionary statement: Response	P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

# 2.3. Other hazards

None if used properly. Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

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.	content	Classification
Decan-1-ol 112-30-1	203-956-9 01-2119480407-35	5- < 10 %	Eye Irrit. 2 H319 Aquatic Chronic 3 H412
Cumene hydroperoxide 80-15-9	201-254-7 01-2119475796-19	0,1-< 1 %	Acute Tox. 4; Dermal H312 STOT RE 2 H373 Acute Tox. 4; Oral H302 Org. Perox. E H242 Acute Tox. 3; Inhalation H331 Aquatic Chronic 2 H411 Skin Corr. 1B H314
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
maleic acid 110-16-7	203-742-5 01-2119488705-25	0,1-< 1 %	Acute Tox. 4; Oral H302 Acute Tox. 4; Dermal H312 Skin Irrit. 2 H315 Skin Sens. 1 H317 Eye Irrit. 2 H319 STOT SE 3 H335
N,N'-Ethane-1,2-diylbis(12- hydroxyoctadecan-1-amide) 123-26-2	204-613-6 01-2119978265-26	0,1-< 1 %	Skin Sens. 1B H317 Aquatic Chronic 4 H413
1,4-Naphthalenedione 130-15-4	204-977-6	0,01- < 0,015 % ( 100 ppm- < 150 ppm)	Acute Tox. 3; Oral H301 Skin Irrit. 2; Dermal H315 Skin Sens. 1 H317 Eye Irrit. 2 H319 Acute Tox. 1; Inhalation H330 STOT SE 3; Inhalation H335 Aquatic Acute 1 H400 Aquatic Chronic 1 H410 M factor (Acute Aquat Tox): 10 M factor (Chron Aquat Tox): 10

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. If symptoms persist, seek medical advice.

Skin contact: Rinse with running water and soap. Obtain medical attention if irritation persists.

Eye 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** SKIN: Rash, Urticaria.

Prolonged or repeated contact may cause eye irritation.

**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

**Extinguishing media which must not be used for safety reasons:** None known

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

Do not expose to direct heat. 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 and full protective clothing, such as turn-out gear.

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 let product enter drains.

#### 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**

### 7.1. Precautions for safe handling

Use only in well-ventilated areas. Avoid skin and eye contact. See advice in section 8

### Hygiene measures:

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

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

Refer to Technical Data Sheet

# 7.3. Specific end use(s)

Anaerobic Sealant

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

### 8.1. Control parameters

#### **Occupational Exposure Limits**

Valid for

Great Britain

Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>	Value type	Short term exposure limit category / Remarks	Regulatory list
Ethene, homopolymer 9002-88-4 [DUST, INHALABLE DUST]		10	Time Weighted Average (TWA):		EH40 WEL
Ethene, homopolymer 9002-88-4 [DUST, RESPIRABLE DUST]		4	Time Weighted Average (TWA):		EH40 WEL
Silicon dioxide 112945-52-5 [SILICA, AMORPHOUS, INHALABLE DUST]		6	Time Weighted Average (TWA):		EH40 WEL
Silicon dioxide 112945-52-5 [SILICA, AMORPHOUS, RESPIRABLE DUST]		2,4	Time Weighted Average (TWA):		EH40 WEL

#### **Occupational Exposure Limits**

Valid for

Ireland

Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>	Value type	Short term exposure limit category / Remarks	Regulatory list
Ethene, homopolymer 9002-88-4 [DUSTS, NON-SPECIFIC, RESPIRABLE]		4	Time Weighted Average (TWA):		IR_OEL
Ethene, homopolymer 9002-88-4 [DUSTS, NON-SPECIFIC, TOTAL INHALABLE]		10	Time Weighted Average (TWA):		IR_OEL
Silicon dioxide 112945-52-5 [SILICA, AMORPHOUS, TOTAL INHALABLE DUST]		6	Time Weighted Average (TWA):		IR_OEL
Silicon dioxide 112945-52-5 [SILICA, AMORPHOUS, RESPIRABLE DUST]		2,4	Time Weighted Average (TWA):		IR_OEL

# Predicted No-Effect Concentration (PNEC):

Name on list	Environmental Compartment	Exposure period	Value				Remarks
	Compartment	periou	mg/l	ppm	mg/kg	others	
Decan-1-ol	aqua		0,022 mg/l				
112-30-1	(freshwater)		.,				
Decan-1-ol	sediment				0,13 mg/kg		
112-30-1	(freshwater)						
Decan-1-ol	aqua (marine		0,0022				
112-30-1	water)		mg/l				
Decan-1-ol	sediment				0,013		
112-30-1	(marine water)				mg/kg		
Decan-1-ol	Soil				0,13 mg/kg		
112-30-1							
Decan-1-ol	sewage		0,4 mg/l				
112-30-1	treatment plant (STP)						
.alpha.,.alphaDimethylbenzyl	aqua		0,0031				
hydroperoxide 80-15-9	(freshwater)		mg/l				
.alpha.,.alphaDimethylbenzyl	aqua (marine		0,00031				
hydroperoxide	water)		mg/l				
80-15-9			-				
.alpha.,.alphaDimethylbenzyl	aqua		0,031 mg/l				
hydroperoxide	(intermittent						
80-15-9	releases)						
.alpha.,.alphaDimethylbenzyl	Sewage		0,35 mg/l				
hydroperoxide	treatment plant		_				
80-15-9							
.alpha.,.alphaDimethylbenzyl	sediment				0,023		
hydroperoxide	(freshwater)				mg/kg		
80-15-9							
.alpha.,.alphaDimethylbenzyl	sediment				0,0023		
hydroperoxide	(marine water)				mg/kg		
80-15-9							
.alpha.,.alphaDimethylbenzyl	Soil				0,0029		
hydroperoxide 80-15-9					mg/kg		
80-15-9 Maleic acid			0,1 mg/l				
	aqua		0,1 mg/1				
110-16-7 Maleic acid	(freshwater)		0.4201				
Maleic acid 110-16-7	aqua (intermittent		0,4281				
110-10-7	(internittent releases)		mg/l				
Maleic acid	sediment				0.334		
110-16-7	(freshwater)				0,334 mg/kg		
Maleic acid	sewage		44,6 mg/l		iiig/ Kg		
110-16-7	treatment plant		44,0 mg/1				
110 10-7	(STP)						
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		

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

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Decan-1-ol 112-30-1	Workers	inhalation	Long term exposure - systemic effects		176 mg/m3	
Decan-1-ol 112-30-1	Workers	inhalation	Long term exposure - local effects		129 mg/m3	
Decan-1-ol 112-30-1	Workers	dermal	Long term exposure - systemic effects		250 mg/kg	
Decan-1-ol 112-30-1	Workers	dermal	Long term exposure - local effects		0,19 mg/cm2 190 μg/cm2	
Decan-1-ol 112-30-1	General population	inhalation	Long term exposure - systemic effects		43,5 mg/m3	
Decan-1-ol 112-30-1	General population	dermal	Long term exposure - systemic effects		125 mg/kg	
Decan-1-ol 112-30-1	General population	dermal	Long term exposure - local effects		0,067 mg/cm2 67 μg/cm2	
Decan-1-ol 112-30-1	General population	oral	Long term exposure - systemic effects		12,5 mg/kg	
.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		0,55 mg/cm2	
Maleic acid 110-16-7	Workers	dermal	Long term exposure - local effects		0,04 mg/cm2	
Maleic acid 110-16-7	Workers	dermal	Acute/short term exposure - systemic effects		58 mg/kg	
Maleic acid 110-16-7	Workers	dermal	Long term exposure - systemic effects		3,3 mg/kg	
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	

### **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;  $\geq 0.4$  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

Appearance	paste
	orange
Odor	mild
Odour threshold	No data available / Not applicable
pH	Not applicable
Melting point	No data available / Not applicable
Solidification temperature	No data available / Not applicable
Initial boiling point	> 150 °C (> 302 °F)
Flash point	> 93,3 °C (> 199.94 °F); Pensky Martens closed cup
Evaporation rate	Not applicable
Flammability	No data available / Not applicable
Explosive limits	No data available / Not applicable
Vapour pressure	6.6700000 mbar
(27,0 °C (80.6 °F))	-,
Vapour pressure	< 300 mbar
(50 °C (122 °F))	
Relative vapour density:	No data available / Not applicable
Density	1,15 g/cm3
0	
Bulk density	No data available / Not applicable
Solubility	No data available / Not applicable
Solubility (qualitative)	Slight
(Solvent: Water)	6
Partition coefficient: n-octanol/water	No data available / Not applicable
Auto-ignition temperature	No data available / Not applicable
Decomposition temperature	No data available / Not applicable
Viscosity	No data available / Not applicable
Viscosity (kinematic)	No data available / Not applicable
Explosive properties	No data available / Not applicable
Oxidising properties	No data available / Not applicable

#### 9.2. Other information

Ignition temperature

Not available.

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

### 10.1. Reactivity

Reaction with strong acids. Reacts with strong oxidants.

#### 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

Irritating organic vapours.

# **SECTION 11: Toxicological information**

#### **11.1. Information on toxicological effects**

#### 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			
Decan-1-ol	LD50	> 5.000 mg/kg	rat	EPA OPPTS 870.1100 (Acute Oral Toxicity)
112-30-1				
Cumene hydroperoxide	LD50	382 mg/kg	rat	other guideline:
80-15-9				
Acetic acid, 2-	LD50	270 mg/kg	rat	not specified
phenylhydrazide				
114-83-0				
maleic acid	LD50	708 mg/kg	rat	not specified
110-16-7				
N,N'-Ethane-1,2-	LD50	> 2.000 mg/kg	rat	OECD Guideline 423 (Acute Oral toxicity)
diylbis(12-				
hydroxyoctadecan-1-				
amide)				
123-26-2				
1,4-Naphthalenedione	LD50	190 mg/kg	rat	not specified
130-15-4				

#### 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			
Decan-1-ol	LD50	> 5.000 mg/kg	rat	EPA OPPTS 870.1200 (Acute Dermal Toxicity)
112-30-1				
Cumene hydroperoxide	LD50	530 - 1.060	rat	other guideline:
80-15-9		mg/kg		
Cumene hydroperoxide	Acute	1.100 mg/kg		Expert judgement
80-15-9	toxicity			
	estimate			
	(ATE)			
maleic acid	LD50	1.560 mg/kg	rabbit	not specified
110-16-7				_

### 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 type	Value	Test atmosphere	Exposure time	Species	Method
Decan-1-ol 112-30-1	Acute toxicity estimate (ATE)	5,1 mg/l	dust/mist			Expert judgement
Decan-1-ol 112-30-1	LC50	4 mg/l		2 h	mouse	

#### 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
Decan-1-ol 112-30-1	not irritating	4 h	rabbit	EPA OPPTS 870.2500 (Acute Dermal Irritation)
Cumene hydroperoxide 80-15-9	corrosive		rabbit	Draize Test
maleic acid 110-16-7	irritating	24 h	human	Patch Test

### 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
Decan-1-ol 112-30-1	irritating		rabbit	EPA OPPTS 870.2400 (Acute Eye Irritation)
maleic acid 110-16-7	highly 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.				
Decan-1-ol	not sensitising	Buehler test	guinea pig	EPA OPPTS 870.2600 (Skin
112-30-1				Sensitisation)
maleic acid	sensitising	Mouse local lymphnode	mouse	OECD Guideline 429 (Skin Sensitisation:
110-16-7		assay (LLNA)		Local Lymph Node Assay)
maleic acid	sensitising	Mouse local lymphnode	guinea pig	OECD Guideline 406 (Skin Sensitisation)
110-16-7		assay (LLNA)		

#### 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	Metabolic activation /	Species	Method
		administration	Exposure time		
Decan-1-ol	negative	bacterial reverse	with and without		Henkel Method
112-30-1		mutation assay (e.g			
		Ames test)			
Cumene hydroperoxide	positive	bacterial reverse	without		OECD Guideline 471
80-15-9	-	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)

### 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
maleic acid 110-16-7	not carcinogenic	oral: feed	2 y daily	rat	male/female	OECD Guideline 451 (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		
maleic acid 110-16-7	NOAEL F1 150 mg/kg	Two generation	oral: gavage	rat	OECD Guideline 416 (Two- Generation Reproduction
	NOAEL F2 55 mg/kg	study			Toxicity Study)

### 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	Result / Value	Route of	Exposure time /	Species	Method
CAS-No.		application	Frequency of		
			treatment		
Decan-1-ol	NOAEL 1.000 mg/kg	dermal	6 hours	rat	OECD Guideline 411
112-30-1			5d/w over 13		(Subchronic Dermal
			consecutive weeks		Toxicity: 90-Day Study)
Cumene hydroperoxide		inhalation:	6 h/d	rat	not specified
80-15-9		aerosol	5 d/w		
maleic acid	NOAEL >= 40  mg/kg	oral: feed	90 d	rat	OECD Guideline 408
110-16-7			daily		(Repeated Dose 90-Day
					Oral Toxicity in Rodents)

#### Aspiration hazard:

No data available.

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

### General ecological information:

Do not empty into drains / surface water / ground water. Cured Loctite products are typical polymers and do not pose any immediate environmental hazards.

#### 12.1. Toxicity

#### Toxicity (Fish):

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
Decan-1-ol 112-30-1	LC50	2,2 - 2,5 mg/l	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
Decan-1-ol 112-30-1	NOEC	0,26 mg/l	33 d	Pimephales promelas	OECD Guideline 210 (fish early lite stage 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
N,N'-Ethane-1,2-diylbis(12- hydroxyoctadecan-1-amide) 123-26-2	LL50		96 h	Oncorhynchus mykiss	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 CAS-No.	Value type	Value	Exposure time	Species	Method
Decan-1-ol 112-30-1	EC50	2,9 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Cumene hydroperoxide 80-15-9	EC50	18 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
maleic acid 110-16-7	EC50	42,81 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
N,N'-Ethane-1,2-diylbis(12- hydroxyoctadecan-1-amide) 123-26-2	EL50		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	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Decan-1-ol	NOEC	0,11 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia
112-30-1		-			magna, Reproduction Test)
maleic acid	NOEC	10 mg/l	21 d	Daphnia magna	other guideline:
110-16-7		-			-

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. Decan-1-ol 112-30-1	type EC50	1,5 mg/l	72 h	Desmodesmus subspicatus	QSAR (Quantitative Structure Activity
Decan-1-ol	EC10	0,7 mg/l	72 h	Desmodesmus subspicatus	Relationship) QSAR (Quantitative
112-30-1	EC10	0,7 mg/1	/2 11	Desmodesmus subspicatus	Structure Activity Relationship)
Cumene hydroperoxide 80-15-9	ErC50	3,1 mg/l	72 h	Pseudokirchneriella subcapitata	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)
N,N'-Ethane-1,2-diylbis(12- hydroxyoctadecan-1-amide) 123-26-2	EC50		72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
N,N'-Ethane-1,2-diylbis(12- hydroxyoctadecan-1-amide) 123-26-2	NOEC		72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
1,4-Naphthalenedione 130-15-4	EC50	0,011 mg/l	72 h	Dunaliella bioculata	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 CAS-No.	Value type	Value	Exposure time	Species	Method
Decan-1-ol 112-30-1	EC0	10.000 mg/l	30 min	Pseudomonas putida	DIN 38412, part 27 (Bacterial oxygen consumption test)
Cumene hydroperoxide 80-15-9	EC10	70 mg/l	30 min		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.

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
Decan-1-ol 112-30-1	readily biodegradable	aerobic	88 %	30 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Cumene hydroperoxide 80-15-9		no data	0 %	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)
N,N'-Ethane-1,2-diylbis(12- hydroxyoctadecan-1-amide) 123-26-2	not readily biodegradable.	aerobic	22 %	28 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
1,4-Naphthalenedione 130-15-4	not readily biodegradable.	no data	0 - 60 %		OECD 301 A - F

# 12.3. Bioaccumulative potential

Hazardous substances CAS-No.	Bioconcentratio n factor (BCF)	Exposure time	Temperature	Species	Method
Decan-1-ol 112-30-1	20			calculated	QSAR (Quantitative Structure Activity Relationship)
Cumene hydroperoxide 80-15-9	9,1			calculation	OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)

#### 12.4. Mobility in soil

Cured adhesives are immobile.

Hazardous substances	LogPow	Temperature	Method
CAS-No.			
Decan-1-ol	4,5	25 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC
112-30-1			Method)
Cumene hydroperoxide	2,16		not specified
80-15-9			
Acetic acid, 2-	0,74		not specified
phenylhydrazide			
114-83-0			
maleic acid	-1,3	20 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake
110-16-7			Flask Method)
N,N'-Ethane-1,2-diylbis(12-	5,86		OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC
hydroxyoctadecan-1-amide)			Method)
123-26-2			
1,4-Naphthalenedione	1,71		not specified
130-15-4			

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

Hazardous substances	PBT / vPvB	
CAS-No.		
Decan-1-ol	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very	
112-30-1	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.	
N,N'-Ethane-1,2-diylbis(12-hydroxyoctadecan-	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very	
1-amide)	Bioaccumulative (vPvB) criteria.	
123-26-2		
1,4-Naphthalenedione	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very	
130-15-4	Bioaccumulative (vPvB) criteria.	

### 12.6. Other adverse effects

No data available.

# SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product disposal:

Dispose of in accordance with local and national regulations.

Collection and delivery to recycling enterprise or other registered elimination institution.

#### 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 numbe	r			
	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				
	ADR	Not dangerous goods			
	RID	Not dangerous goods			
	ADN	Not dangerous goods			
	IMDG	Not dangerous goods			
	IATA	Not dangerous goods			
14.3.	Transport	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			
	RID	not applicable			
	ADN	not applicable			
	IMDG	not applicable			
	IATA	not applicable			
14.7.	Transport in bulk according to Annex II of Marpol and the IBC Code				
	not applicat	ble			

**SECTION 15: Regulatory information** 

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture < 3 %

VOC content (2010/75/EC)

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

#### **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.

H331 Toxic 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.

H412 Harmful to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.

#### **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,

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.