



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

Page 1 of 20

LOCTITE SF 7500

SDS No. : 173216
V005.0

Revision: 04.09.2020

printing date: 07.09.2020

Replaces version from: 25.06.2014

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

1.1. Product identifier

LOCTITE SF 7500

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

Intended use:

Surface pretreatment

1.3. Details of the supplier of the safety data sheet

Henkel Ltd

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 irritation	Category 2
H315 Causes skin irritation.	
Serious eye damage	Category 1
H318 Causes serious eye damage.	
Skin sensitizer	Category 1
H317 May cause an allergic skin reaction.	
Toxic to reproduction	Category 1B
H360FD May damage fertility. May damage the unborn child.	
Chronic hazards to the aquatic environment	Category 3
H412 Harmful to aquatic life with long lasting effects.	

2.2. Label elements

Label elements (CLP):

Hazard pictogram:	
--------------------------	--

Contains Benzaldehyde, 2-hydroxy-5-nonyl-, oxime, branched
 2,4,7,9-Tetramethyldec-5-yne-4,7-diol

Signal word: Danger

Hazard statement:
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H360FD May damage fertility. May damage the unborn child.
 H412 Harmful to aquatic life with long lasting effects.

Supplemental information Restricted to professional users.

Precautionary statement:
Prevention
 P201 Obtain special instructions before use.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement:
Response
 P308+P313 IF exposed or concerned: Get medical advice/attention.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.

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

General chemical description:

Primer

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

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
Pre-stabilized vinyl acrylic copolymer latex		20- 40 %	Skin Irrit. 2 H315 Eye Irrit. 2 H319
Benzaldehyde, 2-hydroxy-5-nonyl-, oxime, branched 174333-80-3	01-2119486798-12	1- < 5 %	Skin Irrit. 2 H315 Eye Dam. 1 H318 Skin Sens. 1 H317 Repr. 1B H360FD Aquatic Chronic 2 H411
2-(2-butoxyethoxy)ethanol 112-34-5	203-961-6 01-2119475104-44	1- < 5 %	Eye Irrit. 2 H319
2,4,7,9-Tetramethyldec-5-yne-4,7-diol 126-86-3	204-809-1 01-2119954390-39	0,1- < 1 %	Skin Sens. 1 H317 Aquatic Chronic 3 H412 Eye Dam. 1 H318
Nonylphenol, branched 84852-15-3	284-325-5 01-2119510715-45	0,01- < 0,1 %	Repr. 2 H361fd Acute Tox. 4; Oral H302 Skin Corr. 1B H314 Aquatic Acute 1 H400 Aquatic Chronic 1 H410 ===== EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC) M factor (Acute Aquat Tox): 10 M factor (Chron Aquat Tox): 10
Poly(oxy-1,2-ethanediyl), a-(nonylphenyl)- w-hydroxy- 9016-45-9	500-024-6	1- < 3 %	No data available. ===== EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC) EU. REACH Annex XIV, Substances Subject to Authorization

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.

Eye contact:

Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.

Ingestion:

Rinse out mouth, drink 1-2 glasses of water, do not induce vomiting.
Seek medical advice.

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

After eye contact: Corrosive, may cause permanent damage to eyes (impairment of vision).

SKIN: Rash, Urticaria.

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**Combustion behaviour:**

The product itself does not burn. Any fire extinguishing action should be appropriate to the surroundings. In case of fire product may cause hazard; see combustion gases / decomposition products.

5.1. Extinguishing media**Suitable extinguishing media:**

water, 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

None

5.3. Advice for firefighters

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA).

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**

Avoid contact with skin and eyes.

Ensure adequate ventilation.

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**7.1. Precautions for safe handling**

Avoid skin and eye contact.

See advice in section 8

Hygiene measures:

Good industrial hygiene practices should be observed.

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

Refer to Technical Data Sheet

7.3. Specific end use(s)

Surface pretreatment

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for
Great Britain

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Barium sulfate 7727-43-7 [BARIUM SULPHATE, INHALABLE DUST]		10	Time Weighted Average (TWA):		EH40 WEL
Barium sulfate 7727-43-7 [BARIUM SULPHATE, RESPIRABLE DUST]		4	Time Weighted Average (TWA):		EH40 WEL
Diiron trioxide 1309-37-1 [ROUGE, RESPIRABLE]		4	Time Weighted Average (TWA):		EH40 WEL
Diiron trioxide 1309-37-1 [ROUGE, TOTAL INHALABLE]		10	Time Weighted Average (TWA):		EH40 WEL
Diiron trioxide 1309-37-1 [IRON OXIDE, FUME (AS FE)]		5	Time Weighted Average (TWA):		EH40 WEL
Diiron trioxide 1309-37-1 [IRON OXIDE, FUME (AS FE)]		10	Short Term Exposure Limit (STEL):	15 minutes	EH40 WEL
Propane-1,2-diol 57-55-6 [PROPANE-1,2-DIOL, PARTICULATES]		10	Time Weighted Average (TWA):		EH40 WEL
Propane-1,2-diol 57-55-6 [PROPANE-1,2-DIOL, TOTAL VAPOUR AND PARTICULATES]	150	474	Time Weighted Average (TWA):		EH40 WEL
2-(2-Butoxyethoxy)ethanol 112-34-5 [2-(2-BUTOXYETHOXY)ETHANOL]	10	67,5	Time Weighted Average (TWA):		EH40 WEL
2-(2-Butoxyethoxy)ethanol 112-34-5 [2-(2-BUTOXYETHOXY)ETHANOL]	10	67,5	Time Weighted Average (TWA):	Indicative	ECLTV
2-(2-Butoxyethoxy)ethanol 112-34-5 [2-(2-BUTOXYETHOXY)ETHANOL]	15	101,2	Short Term Exposure Limit (STEL):	Indicative	ECLTV
2-(2-Butoxyethoxy)ethanol 112-34-5 [2-(2-BUTOXYETHOXY)ETHANOL]	15	101,2	Short Term Exposure Limit (STEL):	15 minutes	EH40 WEL

Occupational Exposure Limits

Valid for
Ireland

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Barium sulfate 7727-43-7 [BARIUM SULPHATE]		5	Time Weighted Average (TWA):		IR_OEL
Diiron trioxide 1309-37-1 [IRON OXIDE]		5	Time Weighted Average (TWA):		IR_OEL
Diiron trioxide 1309-37-1 [ROUGE RESPIRABLE DUST]		4	Time Weighted Average (TWA):		IR_OEL
Diiron trioxide 1309-37-1 [IRON OXIDE]		10	Short Term Exposure Limit (STEL):	15 minutes	IR_OEL
Diiron trioxide 1309-37-1 [ROUGE]		10	Time Weighted Average (TWA):		IR_OEL

Propane-1,2-diol 57-55-6 [PROPANE-1,2-DIOL]		10	Time Weighted Average (TWA):		IR_OEL
Propane-1,2-diol 57-55-6 [PROPANE-1,2-DIOL]	150	470	Time Weighted Average (TWA):		IR_OEL
2-(2-Butoxyethoxy)ethanol 112-34-5 [2-(2-BUTOXYETHOXY)ETHANOL]	10	67,5	Time Weighted Average (TWA):	Indicative OELV	IR_OEL
2-(2-Butoxyethoxy)ethanol 112-34-5 [2-(2-BUTOXYETHOXY)ETHANOL]	10	67,5	Time Weighted Average (TWA):	Indicative	ECLTV
2-(2-Butoxyethoxy)ethanol 112-34-5 [2-(2-BUTOXYETHOXY)ETHANOL]	15	101,2	Short Term Exposure Limit (STEL):	Indicative	ECLTV
2-(2-Butoxyethoxy)ethanol 112-34-5 [2-(2-BUTOXYETHOXY)ETHANOL]	12	101,2	Short Term Exposure Limit (STEL):	15 minutes Indicative OELV	IR_OEL

Predicted No-Effect Concentration (PNEC):

Name on list	Environmental Compartment	Exposure period	Value				Remarks
			mg/l	ppm	mg/kg	others	
Benzaldehyde, 2-hydroxy-5-nonyl-, oxime, branched 174333-80-3	aqua (freshwater)		0,0035 mg/l				
Benzaldehyde, 2-hydroxy-5-nonyl-, oxime, branched 174333-80-3	aqua (marine water)		0,00035 mg/l				
Benzaldehyde, 2-hydroxy-5-nonyl-, oxime, branched 174333-80-3	aqua (intermittent releases)		0,0011 mg/l				
Benzaldehyde, 2-hydroxy-5-nonyl-, oxime, branched 174333-80-3	sewage treatment plant (STP)		20 mg/l				
Benzaldehyde, 2-hydroxy-5-nonyl-, oxime, branched 174333-80-3	sediment (freshwater)				0,0383 mg/kg		
Benzaldehyde, 2-hydroxy-5-nonyl-, oxime, branched 174333-80-3	sediment (marine water)				0,00383 mg/kg		
Benzaldehyde, 2-hydroxy-5-nonyl-, oxime, branched 174333-80-3	Soil				0,138 mg/kg		
Benzaldehyde, 2-hydroxy-5-nonyl-, oxime, branched 174333-80-3	oral				33,33 mg/kg		
2-(2-butoxyethoxy)ethanol 112-34-5	aqua (freshwater)		1,1 mg/l				
2-(2-butoxyethoxy)ethanol 112-34-5	aqua (marine water)		0,11 mg/l				
2-(2-butoxyethoxy)ethanol 112-34-5	aqua (intermittent releases)		11 mg/l				
2-(2-butoxyethoxy)ethanol 112-34-5	sediment (freshwater)				4,4 mg/kg		
2-(2-butoxyethoxy)ethanol 112-34-5	sediment (marine water)				0,44 mg/kg		
2-(2-butoxyethoxy)ethanol 112-34-5	sewage treatment plant (STP)		200 mg/l				
2-(2-butoxyethoxy)ethanol 112-34-5	oral				56 mg/kg		
2-(2-butoxyethoxy)ethanol 112-34-5	Soil				0,32 mg/kg		
2,4,7,9-Tetramethyldec-5-yne-4,7-diol 126-86-3	aqua (freshwater)		0,04 mg/l				
2,4,7,9-Tetramethyldec-5-yne-4,7-diol 126-86-3	aqua (marine water)		0,004 mg/l				
2,4,7,9-Tetramethyldec-5-yne-4,7-diol 126-86-3	aqua (intermittent releases)		0,4 mg/l				
2,4,7,9-Tetramethyldec-5-yne-4,7-diol 126-86-3	Soil				0,028 mg/kg		
2,4,7,9-Tetramethyldec-5-yne-4,7-diol 126-86-3	sediment (freshwater)				0,32 mg/kg		
2,4,7,9-Tetramethyldec-5-yne-4,7-diol 126-86-3	sediment (marine water)				0,032 mg/kg		
2,4,7,9-Tetramethyldec-5-yne-4,7-diol 126-86-3	Sewage treatment plant		7 mg/l				
4-nonylphenol, branched 84852-15-3	aqua (freshwater)		0,000614 mg/l				
4-nonylphenol, branched 84852-15-3	aqua (marine water)		0,000527 mg/l				
4-nonylphenol, branched 84852-15-3	aqua (intermittent releases)		0,00017 mg/l				
4-nonylphenol, branched 84852-15-3	sewage treatment plant (STP)		9,5 mg/l				
4-nonylphenol, branched 84852-15-3	sediment (freshwater)				4,62 mg/kg		

4-nonylphenol, branched 84852-15-3	sediment (marine water)				1,23 mg/kg		
4-nonylphenol, branched 84852-15-3	Soil				2,3 mg/kg		
4-nonylphenol, branched 84852-15-3	oral				2,36 mg/kg		

Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Benzaldehyde, 2-hydroxy-5-nonyl-, oxime, branched 174333-80-3	Workers	inhalation	Long term exposure - systemic effects		62 mg/m ³	
Benzaldehyde, 2-hydroxy-5-nonyl-, oxime, branched 174333-80-3	Workers	dermal	Long term exposure - systemic effects		8,9 mg/kg	
2-(2-butoxyethoxy)ethanol 112-34-5	Workers	inhalation	Long term exposure - systemic effects		67,5 mg/m ³	
2-(2-butoxyethoxy)ethanol 112-34-5	Workers	dermal	Long term exposure - systemic effects		83 mg/kg	
2-(2-butoxyethoxy)ethanol 112-34-5	General population	inhalation	Acute/short term exposure - local effects		60,7 mg/m ³	
2-(2-butoxyethoxy)ethanol 112-34-5	General population	inhalation	Long term exposure - systemic effects		40,5 mg/m ³	
2-(2-butoxyethoxy)ethanol 112-34-5	General population	dermal	Long term exposure - systemic effects		50 mg/kg	
2-(2-butoxyethoxy)ethanol 112-34-5	Workers	inhalation	Acute/short term exposure - local effects		101,2 mg/m ³	
2-(2-butoxyethoxy)ethanol 112-34-5	Workers	inhalation	Long term exposure - local effects		67,5 mg/m ³	
2-(2-butoxyethoxy)ethanol 112-34-5	General population	oral	Long term exposure - systemic effects		5 mg/kg	
2-(2-butoxyethoxy)ethanol 112-34-5	General population	inhalation	Long term exposure - local effects		40,5 mg/m ³	
2,4,7,9-Tetramethyldec-5-yne-4,7-diol 126-86-3	General population	oral	Long term exposure - systemic effects		0,25 mg/kg	
2,4,7,9-Tetramethyldec-5-yne-4,7-diol 126-86-3	General population	oral	Acute/short term exposure - systemic effects		0,75 mg/kg	
2,4,7,9-Tetramethyldec-5-yne-4,7-diol 126-86-3	Workers	dermal	Long term exposure - systemic effects		0,5 mg/kg	
2,4,7,9-Tetramethyldec-5-yne-4,7-diol 126-86-3	Workers	dermal	Acute/short term exposure - systemic effects		1,5 mg/kg	
2,4,7,9-Tetramethyldec-5-yne-4,7-diol 126-86-3	General population	dermal	Long term exposure - systemic effects		0,25 mg/kg	
2,4,7,9-Tetramethyldec-5-yne-4,7-diol 126-86-3	General population	dermal	Acute/short term exposure - systemic effects		0,75 mg/kg	
2,4,7,9-Tetramethyldec-5-yne-4,7-diol 126-86-3	Workers	inhalation	Acute/short term exposure - systemic effects		5,28 mg/m ³	
2,4,7,9-Tetramethyldec-5-yne-4,7-diol 126-86-3	Workers	inhalation	Long term exposure - systemic effects		1,76 mg/m ³	
2,4,7,9-Tetramethyldec-5-yne-4,7-diol 126-86-3	General population	inhalation	Long term exposure - systemic effects		0,43 mg/m ³	
2,4,7,9-Tetramethyldec-5-yne-4,7-diol 126-86-3	General population	inhalation	Acute/short term exposure - systemic effects		1,29 mg/m ³	
4-nonylphenol, branched 84852-15-3	Workers	dermal	Acute/short term exposure - systemic effects		15 mg/kg	
4-nonylphenol, branched 84852-15-3	Workers	inhalation	Acute/short term exposure - systemic effects		1 mg/m ³	
4-nonylphenol, branched 84852-15-3	Workers	dermal	Long term exposure -		7,5 mg/kg	

			systemic effects			
4-nonylphenol, branched 84852-15-3	Workers	inhalation	Long term exposure - systemic effects		0,5 mg/m3	
4-nonylphenol, branched 84852-15-3	General population	dermal	Acute/short term exposure - systemic effects		7,6 mg/kg	
4-nonylphenol, branched 84852-15-3	General population	inhalation	Acute/short term exposure - systemic effects		0,8 mg/m3	
4-nonylphenol, branched 84852-15-3	General population	oral	Acute/short term exposure - systemic effects		0,4 mg/kg	
4-nonylphenol, branched 84852-15-3	General population	dermal	Long term exposure - systemic effects		3,8 mg/kg	
4-nonylphenol, branched 84852-15-3	General population	inhalation	Long term exposure - systemic effects		0,4 mg/m3	
4-nonylphenol, branched 84852-15-3	General population	oral	Long term exposure - systemic effects		0,08 mg/kg	

Biological Exposure Indices:

None

8.2. Exposure controls:

Engineering controls:

Ensure good ventilation/extraction.

Respiratory protection:

Ensure adequate ventilation.

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; \geq 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:

Wear protective glasses.

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

Odour threshold

No data available / Not applicable

pH	2,4
()	
Melting point	No data available / Not applicable
Solidification temperature	No data available / Not applicable
Initial boiling point	> 100 °C (> 212 °F)
Flash point	98 °C (208.4 °F)
Evaporation rate	No data available / Not applicable
Flammability	No data available / Not applicable
Explosive limits	
lower	0,9 % (V)
upper	12,6 % (V)
Vapour pressure	23 hPa
Relative vapour density:	No data available / Not applicable
Density	1,22 g/cm ³
()	
Bulk density	No data available / Not applicable
Solubility	No data available / Not applicable
Solubility (qualitative)	Not miscible or difficult to mix
(Solvent: Water)	
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

No data available / Not applicable
max. VOC content:

61 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity

None if used properly.

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.

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 CAS-No.	Value type	Value	Species	Method
Benzaldehyde, 2-hydroxy-5-nonyl-, oxime, branched 174333-80-3	LD50	> 2.000 mg/kg	rat	not specified
2-(2-butoxyethoxy)ethanol 112-34-5	LD50	> 2.000 mg/kg	rat	EU Method B.1 (Acute Toxicity (Oral))
2,4,7,9-Tetramethyldec-5-yne-4,7-diol 126-86-3	LD50	4.600 mg/kg	rat	not specified
Nonylphenol, branched 84852-15-3	LD50	1.412 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 CAS-No.	Value type	Value	Species	Method
Benzaldehyde, 2-hydroxy-5-nonyl-, oxime, branched 174333-80-3	LD50	> 2.000 mg/kg	rabbit	not specified
2-(2-butoxyethoxy)ethanol 112-34-5	LD50	2.764 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)
2,4,7,9-Tetramethyldec-5-yne-4,7-diol 126-86-3	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
Nonylphenol, branched 84852-15-3	LD50	> 2.000 mg/kg	rabbit	not specified

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 CAS-No.	Result	Exposure time	Species	Method
Benzaldehyde, 2-hydroxy-5-nonyl-, oxime, branched 174333-80-3	irritating	4,00 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
2-(2-butoxyethoxy)ethanol 112-34-5	not irritating		rabbit	Draize Test
2,4,7,9-Tetramethyldec-5-yne-4,7-diol 126-86-3	slightly irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Nonylphenol, branched 84852-15-3	Category 1B (corrosive)	4 h	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
Benzaldehyde, 2-hydroxy-5-nonyl-, oxime, branched 174333-80-3	Category 1 (irreversible effects on the eye)	24 h	rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
2-(2-butoxyethoxy)ethanol 112-34-5	moderately irritating		rabbit	not specified
2,4,7,9-Tetramethyldec-5-yne-4,7-diol 126-86-3	Category I		rabbit	EPA OTS 798.4500 (Acute Eye Irritation)

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
Benzaldehyde, 2-hydroxy-5-nonyl-, oxime, branched 174333-80-3	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
2-(2-butoxyethoxy)ethanol 112-34-5	not sensitising	Guinea pig maximisation test	guinea pig	Magnusson and Kligman Method
2,4,7,9-Tetramethyldec-5-yne-4,7-diol 126-86-3	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

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
2-(2-butoxyethoxy)ethanol 112-34-5	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
2,4,7,9-Tetramethyldec-5-yne-4,7-diol 126-86-3	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
2,4,7,9-Tetramethyldec-5-yne-4,7-diol 126-86-3	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
2,4,7,9-Tetramethyldec-5-yne-4,7-diol 126-86-3	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation 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
2-(2- butoxyethoxy)ethanol 112-34-5	NOAEL < 50 mg/kg	oral: gavage	90 days 5 days/week	rat	not specified
2-(2- butoxyethoxy)ethanol 112-34-5	NOAEL 2 - 6 ppm	inhalation	90 days	rat	not specified
2-(2- butoxyethoxy)ethanol 112-34-5	NOAEL > 2.000 mg/kg	dermal	13 weeks 6 hours/day, 5 days/week	rat	not specified
2,4,7,9-Tetramethyldec-5- yne-4,7-diol 126-86-3	NOAEL 150 mg/kg	oral: gavage	30 d daily	rat	OECD Guideline 407 (Repeated Dose 28-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.

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
Benzaldehyde, 2-hydroxy-5-nonyl-, oxime, branched 174333-80-3	LC50	1,1 mg/l	96 h	Brachydanio rerio (new name: Danio rerio)	EU Method C.1 (Acute Toxicity for Fish)
2-(2-butoxyethoxy)ethanol 112-34-5	LC50	1.300 mg/l	96 h	Lepomis macrochirus	OECD Guideline 203 (Fish, Acute Toxicity Test)
2,4,7,9-Tetramethyldec-5-ene-4,7-diol 126-86-3	LC50	36 mg/l	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
Nonylphenol, branched 84852-15-3	LC50	0,135 mg/l	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
Nonylphenol, branched 84852-15-3	NOEC	0,25 mg/l	14 d	Leuciscus idus	OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study)
Nonylphenol, branched 84852-15-3	NOEC	0,006 mg/l	91 d	Oncorhynchus mykiss	OECD Guideline 210 (fish early life stage 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
Benzaldehyde, 2-hydroxy-5-nonyl-, oxime, branched 174333-80-3	EC50	2,7 mg/l	48 h	Daphnia magna	EU Method C.2 (Acute Toxicity for Daphnia)
2-(2-butoxyethoxy)ethanol 112-34-5	EC50	3.300 mg/l	24 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
2,4,7,9-Tetramethyldec-5-ene-4,7-diol 126-86-3	EC50	99 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Nonylphenol, branched 84852-15-3	EC50	0,035 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
Benzaldehyde, 2-hydroxy-5-nonyl-, oxime, branched 174333-80-3	NOEC	0,189 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
Nonylphenol, branched 84852-15-3	NOEC	0,024 mg/l	21 d	Daphnia magna	OECD Guideline 202 (Daphnia sp. Chronic Immobilisation Test)

Toxicity (Algae):

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
Benzaldehyde, 2-hydroxy-5-nonyl-, oxime, branched 174333-80-3	EL10	14,9 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Benzaldehyde, 2-hydroxy-5-nonyl-, oxime, branched 174333-80-3	EL50	36,3 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-(2-butoxyethoxy)ethanol 112-34-5	NOEC	> 100 mg/l	96 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-(2-butoxyethoxy)ethanol 112-34-5	EC50	> 100 mg/l	96 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
2,4,7,9-Tetramethyldec-5-yne-4,7-diol 126-86-3	NOEC	4,6 mg/l		Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
2,4,7,9-Tetramethyldec-5-yne-4,7-diol 126-86-3	EC50	82 mg/l		Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Nonylphenol, branched 84852-15-3	EC50	0,0563 mg/l	72 h	not specified	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
2-(2-butoxyethoxy)ethanol 112-34-5	EC10	> 1.995 mg/l	30 min	activated sludge, industrial	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
2,4,7,9-Tetramethyldec-5-yne-4,7-diol 126-86-3	EC 50	680 mg/l	3 h		OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Nonylphenol, branched 84852-15-3	EC50	Toxicity > Water solubility	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
Benzaldehyde, 2-hydroxy-5-nonyl-, oxime, branched 174333-80-3	not readily biodegradable.		> 0 - < 60 %	28 day	OECD 301 A - F
Benzaldehyde, 2-hydroxy-5-nonyl-, oxime, branched 174333-80-3	not inherently biodegradable	aerobic	0 %	28 day	OECD Guideline 302 C (Inherent Biodegradability: Modified MITI Test (II))
2-(2-butoxyethoxy)ethanol 112-34-5	inherently biodegradable	aerobic	100 %	9 d	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
2-(2-butoxyethoxy)ethanol 112-34-5	readily biodegradable	aerobic	> 60 %	28 d	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))
2,4,7,9-Tetramethyldec-5-yne-4,7-diol 126-86-3		aerobic	5 %		OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Nonylphenol, branched 84852-15-3	not readily biodegradable.	aerobic	48,2 %	35 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)

12.3. Bioaccumulative potential

Hazardous substances CAS-No.	Bioconcentration factor (BCF)	Exposure time	Temperature	Species	Method
Benzaldehyde, 2-hydroxy-5-nonyl-, oxime, branched 174333-80-3	> 138 - < 159	28 d		Oncorhynchus mykiss	OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)
Nonylphenol, branched 84852-15-3	231	14 d		Lepomis macrochirus	other guideline:

12.4. Mobility in soil

Hazardous substances CAS-No.	LogPow	Temperature	Method
Benzaldehyde, 2-hydroxy-5-nonyl-, oxime, branched 174333-80-3	5,5	25 °C	EU Method A.8 (Partition Coefficient)
2-(2-butoxyethoxy)ethanol 112-34-5	1	20 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
2,4,7,9-Tetramethyldec-5-yne-4,7-diol 126-86-3	2,8	22 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
Nonylphenol, branched 84852-15-3	5,4	23 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)

12.5. Results of PBT and vPvB assessment

Hazardous substances CAS-No.	PBT / vPvB
2-(2-butoxyethoxy)ethanol 112-34-5	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
2,4,7,9-Tetramethyldec-5-yne-4,7-diol 126-86-3	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Nonylphenol, branched 84852-15-3	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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.

Disposal must be made according to official regulations.

Waste code

080111

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**
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.2. UN proper shipping name**
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.3. Transport hazard class(es)**
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.4. Packing group**
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.5. Environmental hazards**
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.6. Special precautions for user**
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**
not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

VOC content < 5 %
(2010/75/EC)

VOC Paints and Varnishes (EU):

Regulatory Basis:	Directive 2004/42/EC
Product (sub)category:	A(g) Primer
Phase I (from 1.1.2007):	540 g/l
max. VOC content:	61 g/l

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:

- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H360FD May damage fertility. May damage the unborn child.
- H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
- 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.

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 (ua-productsafety.de@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.