



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

Page 1 of 18

LOCTITE LB 8018 known as Loctite 8018

SDS No. : 173457  
V008.0

Revision: 29.10.2020

printing date: 19.11.2020

Replaces version from: 08.01.2019

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

#### 1.1. Product identifier

LOCTITE LB 8018 known as Loctite 8018

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

Intended use:

Lubricant

#### 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):

Flammable aerosols

Category 1

H222 Extremely flammable aerosol.

H229 Pressurized container: May burst if heated.

Specific target organ toxicity - single exposure

Category 3

H336 May cause drowsiness or dizziness.

Target organ: Central nervous system

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

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

<b>Signal word:</b>	Danger
<b>Hazard statement:</b>	H222 Extremely flammable aerosol. H229 Pressurized container: May burst if heated. H336 May cause drowsiness or dizziness. H412 Harmful to aquatic life with long lasting effects.
<b>Supplemental information</b>	EUH066 Repeated exposure may cause skin dryness or cracking.
<b>Precautionary statement:</b>	P251 Do not pierce or burn, even after use. P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. P211 Do not spray on an open flame or other ignition source. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P102 Keep out of reach of children. "***" ***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.***
<b>Precautionary statement: Prevention</b>	P261 Avoid breathing spray. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing.

### 2.3. Other hazards

The aerosol container is under pressure. Do not expose to high temperatures.

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:

Lubricant

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

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics 64742-48-9	01-2119463258-33	75- < 100 %	Asp. Tox. 1 H304 Flam. Liq. 3 H226 STOT SE 3 H336
(2-Methoxymethylethoxy)propanol 34590-94-8	252-104-2 01-2119450011-60	2,5- < 10 %	
Carbon dioxide 124-38-9	204-696-9	1- < 2,5 %	Press. Gas H280
2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol 95-38-5	202-414-9 01-2119777867-13	>= 0,25- < 1 %	Acute Tox. 4; Oral H302 Skin Corr. 1C H314 Eye Dam. 1 H318 STOT RE 2 H373 Aquatic Acute 1 H400 Aquatic Chronic 1 H410 M factor (Acute Aquat Tox): 10
(Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine 110-25-8	203-749-3 01-2119488991-20	>= 0,25- < 1 %	Skin Irrit. 2 H315 Eye Dam. 1 H318 Acute Tox. 4; Inhalation H332 Aquatic Acute 1 H400

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

Prolonged or repeated contact may cause skin irritation.

Prolonged or repeated contact may cause eye irritation.

Repeated exposure may cause skin dryness or cracking.

Vapors may cause drowsiness and dizziness.

**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**

Oxides of carbon, oxides of nitrogen, irritating organic vapors.

**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**

Avoid skin and eye contact.

Ensure adequate ventilation.

Remove sources of ignition.

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**

Use only in well-ventilated areas.

Avoid skin and eye contact.

Keep away from sources of ignition - no smoking.

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**

Store in a cool, well-ventilated place.

Keep away from heat and direct sunlight.

Refer to Technical Data Sheet

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

Lubricant

## 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
(2-Methoxymethylethoxy)propanol 34590-94-8 [(2-METHOXYMETHYLETHOXY) PROPANOL]	50	308	Time Weighted Average (TWA):		EH40 WEL
(2-Methoxymethylethoxy)propanol 34590-94-8 [(2-METHOXYMETHYLETHOXY) PROPANOL]			Skin designation:	Can be absorbed through the skin.	EH40 WEL
(2-Methoxymethylethoxy)propanol 34590-94-8 [(2-METHOXYMETHYLETHOXY)- PROPANOL]	50	308	Time Weighted Average (TWA):	Indicative	ECTLV
Carbon dioxide 124-38-9					
Carbon dioxide 124-38-9 [CARBON DIOXIDE]	5.000	9.150	Time Weighted Average (TWA):		EH40 WEL
Carbon dioxide 124-38-9 [CARBON DIOXIDE]	5.000	9.000	Time Weighted Average (TWA):	Indicative	ECTLV
Carbon dioxide 124-38-9 [CARBON DIOXIDE]	15.000	27.400	Short Term Exposure Limit (STEL):	15 minutes	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
(2-Methoxymethylethoxy)propanol 34590-94-8 [(2-METHOXYMETHYLETHOXY)-1- PROPANOL]			Skin designation:	Can be absorbed through the skin.	IR_OEL
(2-Methoxymethylethoxy)propanol 34590-94-8 [(2-METHOXYMETHYLETHOXY)-1- PROPANOL]	50	308	Time Weighted Average (TWA):	Indicative OELV	IR_OEL
(2-Methoxymethylethoxy)propanol 34590-94-8 [(2-METHOXYMETHYLETHOXY)- PROPANOL]	50	308	Time Weighted Average (TWA):	Indicative	ECTLV
Carbon dioxide 124-38-9					
Carbon dioxide 124-38-9 [CARBON DIOXIDE]	5.000	9.000	Time Weighted Average (TWA):	Indicative OELV	IR_OEL
Carbon dioxide 124-38-9 [CARBON DIOXIDE]	5.000	9.000	Time Weighted Average (TWA):	Indicative	ECTLV

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

Name on list	Environmental Compartment	Exposure period	Value				Remarks
			mg/l	ppm	mg/kg	others	
(2-Methoxymethylethoxy)propanol 34590-94-8	aqua (freshwater)		19 mg/l				
(2-Methoxymethylethoxy)propanol 34590-94-8	aqua (marine water)		1,9 mg/l				
(2-Methoxymethylethoxy)propanol 34590-94-8	sewage treatment plant (STP)		4168 mg/l				
(2-Methoxymethylethoxy)propanol 34590-94-8	sediment (freshwater)				70,2 mg/kg		
(2-Methoxymethylethoxy)propanol 34590-94-8	sediment (marine water)				7,02 mg/kg		
(2-Methoxymethylethoxy)propanol 34590-94-8	Soil				2,74 mg/kg		
(2-Methoxymethylethoxy)propanol 34590-94-8	aqua (intermittent releases)		190 mg/l				
(2-Methoxymethylethoxy)propanol 34590-94-8	Air						no hazard identified
(2-Methoxymethylethoxy)propanol 34590-94-8	oral						no potential for bioaccumulation
2-(2-Heptadec-8-enyl-2-imidazolin-1- yl)ethanol 95-38-5	aqua (freshwater)		0,03 µg/l				
2-(2-Heptadec-8-enyl-2-imidazolin-1- yl)ethanol 95-38-5	aqua (marine water)		0,003 µg/l				
2-(2-Heptadec-8-enyl-2-imidazolin-1- yl)ethanol 95-38-5	aqua (intermittent releases)		0,3 µg/l				
2-(2-Heptadec-8-enyl-2-imidazolin-1- yl)ethanol 95-38-5	sewage treatment plant (STP)		0,27 mg/l				
2-(2-Heptadec-8-enyl-2-imidazolin-1- yl)ethanol 95-38-5	sediment (freshwater)				0,376 mg/kg		
2-(2-Heptadec-8-enyl-2-imidazolin-1- yl)ethanol 95-38-5	aqua (marine water)				0,0376 mg/kg		
2-(2-Heptadec-8-enyl-2-imidazolin-1- yl)ethanol 95-38-5	Soil				0,075 mg/kg		
(Z)-N-Methyl-N-(1-oxo-9- octadecenyl)glycine 110-25-8	aqua (marine water)		0,000043 mg/l				
(Z)-N-Methyl-N-(1-oxo-9- octadecenyl)glycine 110-25-8	aqua (freshwater)		0,00043 mg/l				
(Z)-N-Methyl-N-(1-oxo-9- octadecenyl)glycine 110-25-8	aqua (intermittent releases)		0,0043 mg/l				

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

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics 64742-48-9	Workers	dermal	Long term exposure - systemic effects		300 mg/kg	
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics 64742-48-9	Workers	Inhalation	Long term exposure - systemic effects		1500 mg/m3	
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics 64742-48-9	General population	dermal	Long term exposure - systemic effects		300 mg/kg	
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics 64742-48-9	General population	Inhalation	Long term exposure - systemic effects		900 mg/m3	
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics 64742-48-9	General population	oral	Long term exposure - systemic effects		300 mg/kg	
(2-Methoxymethylethoxy)propanol 34590-94-8	Workers	inhalation	Long term exposure - systemic effects		308 mg/m3	no hazard identified
(2-Methoxymethylethoxy)propanol 34590-94-8	Workers	dermal	Long term exposure - systemic effects		283 mg/kg	no hazard identified
(2-Methoxymethylethoxy)propanol 34590-94-8	General population	oral	Long term exposure - systemic effects		36 mg/kg	no hazard identified
(2-Methoxymethylethoxy)propanol 34590-94-8	General population	inhalation	Long term exposure - systemic effects		37,2 mg/m3	no hazard identified
(2-Methoxymethylethoxy)propanol 34590-94-8	General population	dermal	Long term exposure - systemic effects		121 mg/kg	no hazard identified
2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol 95-38-5	Workers	dermal	Acute/short term exposure - systemic effects		2 mg/kg	
2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol 95-38-5	Workers	Inhalation	Acute/short term exposure - systemic effects		14 mg/m3	
2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol 95-38-5	Workers	dermal	Long term exposure - systemic effects		0,06 mg/kg	
2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol 95-38-5	Workers	Inhalation	Long term exposure - systemic effects		0,46 mg/m3	
(Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine 110-25-8	General population	oral	Acute/short term exposure - systemic effects		92 mg/kg	
(Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine 110-25-8	General population	oral	Long term exposure - systemic effects		5 mg/kg	
(Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine 110-25-8	General population	dermal	Long term exposure - systemic effects		5 mg/kg	
(Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine 110-25-8	General population	dermal	Acute/short term exposure - systemic effects		50 mg/kg	
(Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine 110-25-8	Workers	dermal	Acute/short term exposure - systemic effects		100 mg/kg	
(Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine 110-25-8	Workers	dermal	Long term exposure - systemic effects		10 mg/kg	
(Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine 110-25-8	General population	inhalation	Acute/short term exposure - local effects		9 mg/m3	
(Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine 110-25-8	Workers	inhalation	Acute/short term exposure - local effects		18 mg/m3	
(Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine 110-25-8	General population	inhalation	Long term exposure - local effects		0,005 mg/m3	
(Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine 110-25-8	Workers	inhalation	Long term exposure - local		0,01 mg/m3	

110-25-8			effects			
(Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine 110-25-8	General population	inhalation	Long term exposure - systemic effects		0,1 mg/m3	
(Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine 110-25-8	Workers	inhalation	Long term exposure - systemic effects		0,2 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 &gt; 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 &gt; 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:

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	liquid aerosol light brown
Odor	characteristic
Odour threshold	No data available / Not applicable
pH	No data available / Not applicable
Melting point	No data available / Not applicable
Solidification temperature	No data available / Not applicable
Initial boiling point	162 °C (323.6 °F)



Flash point	40 °C (104 °F); no method
Evaporation rate	No data available / Not applicable
Flammability	No data available / Not applicable
Explosive limits	
lower	0,6 % (V)
upper	14,00 % (V)
Vapour pressure (20 °C (68 °F))	5500 hPa
Relative vapour density:	No data available / Not applicable
Density (20 °C (68 °F))	0,789 g/cm <sup>3</sup>
Bulk density	No data available / Not applicable
Solubility	No data available / Not applicable
Solubility (qualitative) (Solvent: Water)	Insoluble
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	270 °C (518 °F)
----------------------	-----------------

**SECTION 10: Stability and reactivity****10.1. Reactivity**

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**

Heat, flames, sparks and other sources of ignition.

**10.5. Incompatible materials**

See section reactivity.

**10.6. Hazardous decomposition products**

Irritating organic vapours.

## SECTION 11: Toxicological information

### General toxicological information:

Prolonged or repeated contact may cause skin irritation.

Prolonged or repeated contact may cause eye irritation.

### 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
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics 64742-48-9	LD50	> 5.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
(2-Methoxymethylethoxy)pr opanol 34590-94-8	LD50	8.740 mg/kg	rat	not specified
2-(2-Heptadec-8-enyl-2- imidazolin-1-yl)ethanol 95-38-5	LD50	1.265 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
(Z)-N-Methyl-N-(1-oxo- 9-octadecenyl)glycine 110-25-8	LD50	> 5.000 mg/kg	rat	OECD Guideline 420 (Acute Oral Toxicity)

#### 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
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics 64742-48-9	LD50	> 5.000 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)
(2-Methoxymethylethoxy)pr opanol 34590-94-8	LD50	9.510 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)

**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
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics 64742-48-9	LC50	> 5,6 mg/l	dust/mist	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)
(2-Methoxymethylethoxy)propanol 34590-94-8	LC50	55 - 60 mg/l		4 h	rat	not specified
(Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine 110-25-8	LC50	1,37 mg/l	dust/mist	4 h	rat	BASF Test

**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
(2-Methoxymethylethoxy)propanol 34590-94-8	not irritating	2 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
(2-Methoxymethylethoxy)propanol 34590-94-8	not irritating		human	not specified
2-(2-Heptadec-8-enyl-2-imidazolyl)ethanol 95-38-5	corrosive	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
(Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine 110-25-8	irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

**Serious eye damage/irritation:**

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

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
(2-Methoxymethylethoxy)propanol 34590-94-8	not irritating		human	not specified
(2-Methoxymethylethoxy)propanol 34590-94-8	not irritating		rabbit	Draize Test
(Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine 110-25-8	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 CAS-No.	Result	Test type	Species	Method
(2-Methoxymethylethoxy)propanol 34590-94-8	not sensitising	Patch-Test	human	human repeat insult patch test
(Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine 110-25-8	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)

**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-Methoxymethylethoxy)pr opanol 34590-94-8	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		Ames Test
(2-Methoxymethylethoxy)pr opanol 34590-94-8	negative	yeast cytogenetic assay	with and without		OECD Guideline 481 (Genetic Toxicology: Saccharomyces cerevisiae, Mitotic Recombination Assay)
(2-Methoxymethylethoxy)pr opanol 34590-94-8	negative	in vitro mammalian chromosome aberration test	with and without		JAPAN: Guidelines for Screening Mutagenicity Testing Of Chemicals
(2-Methoxymethylethoxy)pr opanol 34590-94-8	negative	DNA damage and repair assay, unscheduled DNA synthesis in mammalian cells in vitro	not applicable		OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro)
(2-Methoxymethylethoxy)pr opanol 34590-94-8	negative	mammalian cell gene mutation assay	without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
(2-Methoxymethylethoxy)pr opanol 34590-94-8	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
(Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine 110-25-8	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
(Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine 110-25-8	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
(Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine 110-25-8	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro 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
(2-Methoxymethylethoxy)pr opanol 34590-94-8	not carcinogenic	inhalation: vapour	2 years 6 h/day; 5 days/week	rat	male/female	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

**Reproductive toxicity:**

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

Hazardous substances CAS-No.	Result / Value	Test type	Route of application	Species	Method
(2-Methoxymethylethoxy)pr opanol 34590-94-8	NOAEL P 300 ppm NOAEL F1 1000 ppm NOAEL F2 1000 ppm	two-generation study	inhalation: vapour	rat	OECD Guideline 416 (Two-Generation Reproduction Toxicity Study)
(Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine 110-25-8	NOAEL P > 1.000 mg/kg	two-generation study	oral: feed	rat	not specified

**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-Methoxymethylethoxy)propanol 34590-94-8	NOAEL > 50 mg/l	inhalation	2 weeks (9 exposures) 6 hours/day; 5 days/week	rabbit	not specified
(2-Methoxymethylethoxy)propanol 34590-94-8	NOAEL 1.000 mg/kg	oral: gavage	4 weeks daily	rat	not specified
(2-Methoxymethylethoxy)propanol 34590-94-8	NOAEL 200 ppm	inhalation: vapour	13 weeks 6 hours/day; 5 days/week	rat	OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)
(2-Methoxymethylethoxy)propanol 34590-94-8	NOAEL 2.850 mg/kg	dermal	90 d 5 days/week	rabbit	OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)
(2-Methoxymethylethoxy)propanol 34590-94-8	NOAEL > 1.000 mg/kg	dermal	4 weeks 4 hours/day; 5 days/week	rat	OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)
2-(2-Heptadec-8-enyl-2-imidazolyl)ethanol 95-38-5	NOAEL 20 mg/kg	oral: gavage	31/51 days (m/f) daily	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
(Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine 110-25-8	NOAEL > 1.000 mg/kg	oral: feed		rat	not specified

**Aspiration hazard:**

The mixture is classified based on Viscosity data.

Hazardous substances CAS-No.	Viscosity (kinematic) Value	Temperature	Method	Remarks
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics 64742-48-9	0 mm <sup>2</sup> /s	40 °C	not specified	

## 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
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics 64742-48-9	LL50	Toxicity > Water solubility	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
(2-Methoxymethylethoxy)propanol 34590-94-8	LC50	> 1.000 mg/l	96 h	Poecilia reticulata	OECD Guideline 203 (Fish, Acute Toxicity Test)
2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol 95-38-5	LC50	0,3 mg/l	96 h	Danio rerio	OECD Guideline 203 (Fish, Acute Toxicity Test)
(Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine 110-25-8	LC50	2,6 mg/l	96 h	Brachydanio rerio (new name: Danio rerio)	not specified

#### 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
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics 64742-48-9	EL50	Toxicity > Water solubility	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
(2-Methoxymethylethoxy)propanol 34590-94-8	EC50	1.919 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol 95-38-5	EC50	0,163 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
(Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine 110-25-8	EC 50	0,61 mg/l	48 h	Water flea (Daphnia magna)	
(Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine 110-25-8	EC50	0,61 mg/l		Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

#### Chronic toxicity to aquatic invertebrates

No data available.

#### 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
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics 64742-48-9	EL50	Toxicity > Water solubility	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics 64742-48-9	NOELR	Toxicity > Water solubility	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
(2-Methoxymethylethoxy)propanol 34590-94-8	EC50	> 969 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
(2-Methoxymethylethoxy)propanol 34590-94-8	NOEC	969 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol 95-38-5	NOEC	0,011 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol 95-38-5	EC50	0,03 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)

#### Toxicity to microorganisms

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

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
(2-Methoxymethylethoxy)propanol 34590-94-8	EC10	4.168 mg/l	18 h	Pseudomonas putida	other guideline:
2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol 95-38-5	IC50	26 mg/l	3 h	activated sludge, domestic	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
(Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine 110-25-8	EC 50	> 900 mg/l	3 h		OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

#### 12.2. Persistence and degradability

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics 64742-48-9	readily biodegradable	aerobic	80 %	28 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
(2-Methoxymethylethoxy)propanol 34590-94-8	readily biodegradable	aerobic	76 %	28 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
(2-Methoxymethylethoxy)propanol 34590-94-8	inherently biodegradable	aerobic	94 %	13 d	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol 95-38-5	not readily biodegradable.	aerobic	1 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
(Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine 110-25-8		aerobic	64 %	28 d	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
(Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine 110-25-8	readily biodegradable	aerobic	100 %	30 d	EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test)

#### 12.3. Bioaccumulative potential

No data available.

#### 12.4. Mobility in soil

The product evaporates readily.

Hazardous substances CAS-No.	LogPow	Temperature	Method
(2-Methoxymethylethoxy)propanol 34590-94-8	0,004	25 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

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

Hazardous substances CAS-No.	PBT / vPvB
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics 64742-48-9	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
(2-Methoxymethylethoxy)propanol 34590-94-8	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol 95-38-5	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
(Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine 110-25-8	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:

Dispose of in accordance with local and national regulations.

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

Disposal of uncleaned packages:

Disposal must be made according to official regulations.

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

14 06 03 - other solvents and solvent mixtures

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.



<b>SECTION 14: Transport information</b>
--

**14.1. UN number**

ADR	1950
RID	1950
ADN	1950
IMDG	1950
IATA	1950

**14.2. UN proper shipping name**

ADR	AEROSOLS
RID	AEROSOLS
ADN	AEROSOLS
IMDG	AEROSOLS
IATA	Aerosols, flammable

**14.3. Transport hazard class(es)**

ADR	2.1
RID	2.1
ADN	2.1
IMDG	2.1
IATA	2.1

**14.4. Packing group**

ADR  
RID  
ADN  
IMDG  
IATA

**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 Tunnelcode: (D)
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 applicable

<b>SECTION 15: Regulatory information</b>
---

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

VOC content 88,8 %  
(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:

- H226 Flammable liquid and vapor.
- H280 Contains gas under pressure; may explode if heated.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H332 Harmful if inhaled.
- H336 May cause drowsiness or dizziness.
- 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.

**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.**