



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

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LOCTITE LB 8018 AE400ML EGFD/RO

SDS No. : 173457
V008.2

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

1.1. Product identifier

LOCTITE LB 8018 AE400ML EGFD/RO
UFI: 4YCE-5W83-D203-XRJN

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
Adhesives
Wood Lane End
HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 (1442) 278000

SDSinfo.Adhesive@henkel.com

For Safety Data Sheet updates please visit our website www.mysds.henkel.com or www.henkel-adhesives.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

Signal word:

Danger

Hazard statement:

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.

Supplemental information

EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statement:

P251 Do not pierce or burn, even after use.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50.DEGREE.C/122.DEGREE.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.***

**Precautionary statement:
Prevention**

P261 Avoid breathing spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing.

2.3. Other hazards

None if used properly.

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

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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

Hazardous components CAS-No. EC Number REACH-Reg No.	Concentration	Classification	Specific Conc. Limits, M-factors and ATEs	Add. Information
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics ----- 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 %			EU OEL
Carbon dioxide 124-38-9 204-696-9	1- < 2,5 %	Press. Gas H280		EU OEL
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 acute = 10 M chronic = 1	
(Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine 110-25-8 203-749-3	>= 0,25- < 1 %	Skin Irrit. 2, H315 Eye Dam. 1, H318 Acute Tox. 4, Inhalation, H332 Aquatic Acute 1, H400 Aquatic Chronic 3, H412	M acute = 1	

If no ATE values are displayed, please refer to LD/LC50 values in Section 11.

For full text of the H - statements and other abbreviations see section 16 "Other information".

The hazard classification of this product is based solely on the mixture present within the aerosol, excluding the propellant gases. The information provided in Section 3 is based on the combination of the mixture and propellant gases.

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

Vapors may cause drowsiness and dizziness.

Prolonged or repeated contact may cause skin irritation.

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:

water, carbon dioxide, foam, powder

Extinguishing media which must not be used for safety reasons:

High pressure waterjet

5.2. Special hazards arising from the substance or mixture

In the event of a fire, carbon monoxide (CO), carbon dioxide (CO₂) and nitrogen oxides (NO_x) 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

Avoid contact with skin and eyes.

Wear protective equipment.

Ensure adequate ventilation.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Dispose of contaminated material as waste according to Section 13.

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.

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:

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 ³	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 LimitsValid for
Ireland

Ingredient [Regulated substance]	ppm	mg/m ³	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-(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 -----	Workers	Inhalation	Long term exposure - systemic effects		871 mg/m3	
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics -----	Workers	dermal	Long term exposure - systemic effects		77 mg/kg	
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics -----	General population	Inhalation	Long term exposure - systemic effects		185 mg/m3	
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics -----	General population	dermal	Long term exposure - systemic effects		46 mg/kg	
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics -----	General population	oral	Long term exposure - systemic effects		46 mg/kg	
(2-Methoxymethylethoxy)propanol 34590-94-8	Workers	inhalation	Long term exposure - systemic effects		308 mg/m3	
(2-Methoxymethylethoxy)propanol 34590-94-8	Workers	dermal	Long term exposure - systemic effects		283 mg/kg	
(2-Methoxymethylethoxy)propanol 34590-94-8	General population	oral	Long term exposure - systemic effects		36 mg/kg	
(2-Methoxymethylethoxy)propanol 34590-94-8	General population	inhalation	Long term exposure - systemic effects		37,2 mg/m3	
(2-Methoxymethylethoxy)propanol 34590-94-8	General population	dermal	Long term exposure - systemic effects		121 mg/kg	
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	General population	inhalation	Long term exposure - local		0,005 mg/m3	

110-25-8			effects			
(Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine 110-25-8	Workers	inhalation	Long term exposure - local effects		0,01 mg/m3	
(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 > 30 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

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

nitrile rubber (NBR; >= 0.4 mm thickness)

This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:

Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing.

Protective eye equipment should conform to EN166.

Skin protection:

Wear suitable protective clothing.

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

Advices to personal protection equipment:

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Delivery form	liquid
Colour	light brown
Odor	characteristic
Physical state	liquid
Melting point	Not applicable, Product is a liquid
Solidification temperature	Not available.

Initial boiling point	189,6 °C (373.3 °F)no method / method unknown
Flammability	Extremely flammable aerosol.
Explosive limits	
lower	0,6 %(V);
upper	14,00 %(V);
Flash point	40 °C (104 °F); no method / method unknown
Auto-ignition temperature	270 °C (518 °F)
Decomposition temperature	Not applicable, Substance/mixture is not self-reactive, no organic peroxide and does not decompose under foreseen conditions of use
pH	Not applicable, Product is non-soluble (in water).
Viscosity (kinematic) (40 °C (104 °F);)	<= 20,5 mm2/s
Solubility (qualitative) (20 °C (68 °F); Solvent: Water)	Insoluble
Partition coefficient: n-octanol/water	Not applicable Mixture
Vapour pressure (20 °C (68 °F))	5500 hPa;no method / method unknown
Vapour pressure (50 °C (122 °F))	< 10000 hPa;no method / method unknown
Density (20 °C (68 °F))	0,789 g/cm3 None
Relative vapour density:	Not available.
Particle characteristics	Not applicable Product is a liquid

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Aerosols:	Classified as Aerosol category 1 because it contains more than 1 % (by mass) flammable components or has a heat of combustion of at least 20 kJ/g and is not submitted to the flammability classification procedures
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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

None if used properly.

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 hazard classes as defined in Regulation (EC) No 1272/2008**Acute oral toxicity:**

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

Hazardous substances CAS-No.	Value type	Value	Species	Method
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics -----	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	equivalent or similar to OECD Guideline 401 (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 -----	LD50	> 5.000 mg/kg	rabbit	equivalent or similar to 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 -----	LC50	> 5,6 mg/l	dust/mist	4 h	rat	equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics -----	LC50	> 9,3 mg/l	vapour	4 h	rat	equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity)
(2-Methoxymethylethoxy)pr opanol 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	equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity)

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
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics -----	mildly irritating		rabbit	Weight of evidence
(2-Methoxymethylethoxy)pr opanol 34590-94-8	not irritating	2 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
(2-Methoxymethylethoxy)pr opanol 34590-94-8	not irritating		human	not specified
2-(2-Heptadec-8-enyl-2- imidazolin-1-yl)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)pr opanol 34590-94-8	not irritating		human	not specified
(2-Methoxymethylethoxy)pr opanol 34590-94-8	not irritating		rabbit	Draize Test
(Z)-N-Methyl-N-(1-oxo- 9-octadecenyl)glycine 110-25-8	corrosive		rabbit	EPA Guideline

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)propanol 34590-94-8	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		Ames Test
(2-Methoxymethylethoxy)propanol 34590-94-8	negative	yeast cytogenetic assay	with and without		OECD Guideline 481 (Genetic Toxicology: Saccharomyces cerevisiae, Mitotic Recombination Assay)
(2-Methoxymethylethoxy)propanol 34590-94-8	negative	in vitro mammalian chromosome aberration test	with and without		JAPAN: Guidelines for Screening Mutagenicity Testing Of Chemicals
(2-Methoxymethylethoxy)propanol 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)propanol 34590-94-8	negative	mammalian cell gene mutation assay	without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
(2-Methoxymethylethoxy)propanol 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)propanol 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)propanol 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:

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

Hazardous substances CAS-No.	Assessment	Route of exposure	Target Organs	Remarks
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics -----	May cause drowsiness or dizziness.			

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-imidazolin-1-yl)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 300 mg/kg	oral: gavage	90 d daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

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 -----	0 mm ² /s	40 °C	not specified	

11.2 Information on other hazards

not applicable

SECTION 12: Ecological information**General ecological information:**

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

12.1. Toxicity**Toxicity (Fish):**

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

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

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics -----	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	> 0,43 mg/l	96 h	Danio rerio	OECD Guideline 203 (Fish, Acute Toxicity Test)

Toxicity (aquatic invertebrates):

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

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

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics -----	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	EC50	0,43 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Chronic toxicity (aquatic invertebrates):

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

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
(Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine 110-25-8	NOEC	0,183 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)

Toxicity (Algae):

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

The table below presents the data of 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 -----	EL50	Toxicity > Water solubility	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics -----	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)
(Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine 110-25-8	EC50	6,3 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
(Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine 110-25-8	NOEC	0,91 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)

Toxicity (microorganisms):

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

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

Hazardous substances 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	EC50	1.300 mg/l	3 h	activated sludge of a predominantly domestic sewage	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

12.2. Persistence and degradability

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

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics -----	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	readily biodegradable	aerobic	85,2 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

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

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)
(Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine 110-25-8	> 3,5 - 4,2	20 °C	EU Method A.8 (Partition Coefficient)

12.5. Results of PBT and vPvB assessment

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

Hazardous substances CAS-No.	PBT / vPvB
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics -----	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. Endocrine disrupting properties

not applicable

12.7. 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:

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.

SECTION 14: Transport information

14.1. UN number or ID 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
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	Tunnelcode: (D)
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009):	Not applicable
Prior Informed Consent (PIC) (Regulation (EU) No 649/2012):	Not applicable
Persistent organic pollutants (Regulation (EU) 2019/1021):	Not applicable
VOC content (2010/75/EC)	95,5 %

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 vapour.
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.
H412 Harmful to aquatic life with long lasting effects.

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

Further information:

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