

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

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LOCTITE LB 8018 400ML SFDN

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

1.1. Product identifier

LOCTITE LB 8018 400ML SFDN

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 Pressurised 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 2

H411 Toxic to aquatic life with long lasting effects.

2.2. Label elements

Label elements (CLP):



Contains

Signal word:	Danger
Hazard statement:	H222 Extremely flammable aerosol.
	H229 Pressurised container: May burst if heated.
	H336 May cause drowsiness or dizziness.
	H411 Toxic 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°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 waste and
	residues in accordance with local authority requirements***
Precautionary statement:	P261 Avoid breathing spray.
Prevention	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 1174522-20-3	01-2119463258-33	75- < 100 %	Asp. Tox. 1 H304 Flam. Liq. 3 H226 STOT SE 3 H336
Carbon dioxide 124-38-9	204-696-9	2,5-< 10 %	Press. Gas
(2-Methoxymethylethoxy)propanol 34590-94-8	252-104-2 01-2119450011-60	2,5-< 10 %	
2-(2-Heptadec-8-enyl-2-imidazolin-1- yl)ethanol 95-38-5	202-414-9 01-2119777867-13	>= 0,25-< 1 %	Skin Corr. 1C H314 Acute Tox. 4; Oral H302 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 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.

6.2. Environmental precautions

Do not let product enter drains.

6.3. Methods and material for containment and cleaning up

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

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

Dispose of contaminated material as waste according to Section 13.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Use only in well-ventilated areas.

Avoid skin and eye contact.

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 ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Carbon dioxide 124-38-9					
Carbon dioxide 124-38-9 [CARBON DIOXIDE]	15.000	27.400	Short Term Exposure Limit (STEL):		EH40 WEL
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
(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

Occupational Exposure Limits

Valid for

Ireland

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Carbon dioxide					
124-38-9					
Carbon dioxide	15.000	27.000	Short Term Exposure	Indicative OELV	IR_OEL
124-38-9			Limit (STEL):		
[CARBON DIOXIDE]					
Carbon dioxide	5.000	9.000	Time Weighted Average	Indicative OELV	IR_OEL
124-38-9			(TWA):		
[CARBON DIOXIDE]					
Carbon dioxide	5.000	9.000	Time Weighted Average	Indicative	ECTLV
124-38-9			(TWA):		
[CARBON DIOXIDE]					
(2-Methoxymethylethoxy)propanol			Skin designation:	Can be absorbed through the	IR_OEL
34590-94-8				skin.	
[(2-METHOXYMETHYLETHOXY)-1- PROPANOL]					
2	50	308	Time Weighted Average	Indicative OELV	IR_OEL
(2-Methoxymethylethoxy)propanol 34590-94-8	30	308	Time Weighted Average (TWA):	indicative OELV	IK_OEL
[(2-METHOXYMETHYLETHOXY)-1-			(1 111).		
PROPANOL]					
(2-Methoxymethylethoxy)propanol	50	308	Time Weighted Average	Indicative	ECTLV
34590-94-8			(TWA):		
[(2-METHOXYMETHYLETHOXY)-					
PROPANOL]					

$\label{eq:predicted} \textbf{Predicted No-Effect Concentration (PNEC):}$

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,	Workers	dermal	Long term	Time	208 mg/kg	
isoalkanes, cyclics, < 2% aromatics			exposure -			
1174522-20-3			systemic effects			
Hydrocarbons, C9-C11, n-alkanes,	Workers	Inhalation	Long term		871 mg/m3	
isoalkanes, cyclics, < 2% aromatics 1174522-20-3			exposure - systemic effects			
Hydrocarbons, C9-C11, n-alkanes,	General	dermal	Long term		125 mg/kg	
isoalkanes, cyclics, < 2% aromatics	population	dermai	exposure -		123 mg kg	
1174522-20-3			systemic effects			
Hydrocarbons, C9-C11, n-alkanes,	General	Inhalation	Long term		185 mg/m3	
isoalkanes, cyclics, < 2% aromatics	population		exposure -			
Hydrocarbons, C9-C11, n-alkanes,	C1	1	systemic effects		125/1	
isoalkanes, cyclics, < 2% aromatics	General population	oral	Long term exposure -		125 mg/kg	
1174522-20-3	population		systemic effects			
(2-Methoxymethylethoxy)propanol	Workers	inhalation	Long term		308 mg/m3	
34590-94-8			exposure -			
			systemic effects			
(2-Methoxymethylethoxy)propanol	Workers	dermal	Long term		283 mg/kg	
34590-94-8			exposure - systemic effects			
(2-Methoxymethylethoxy)propanol	General	oral	Long term		36 mg/kg	
34590-94-8	population	Oran	exposure -		50 mg/kg	
	1 1 1 1 1 1		systemic effects			
(2-Methoxymethylethoxy)propanol	General	inhalation	Long term		37,2 mg/m3	
34590-94-8	population		exposure -			
(2)(1)	G 1		systemic effects		101 //	
(2-Methoxymethylethoxy)propanol 34590-94-8	General population	dermal	Long term exposure -		121 mg/kg	
34390-94-8	population		systemic effects			
2-(2-Heptadec-8-enyl-2-imidazolin-1-	Workers	dermal	Acute/short term		2 mg/kg	
yl)ethanol			exposure -		88	
95-38-5			systemic effects			
2-(2-Heptadec-8-enyl-2-imidazolin-1-	Workers	Inhalation	Acute/short term		14 mg/m3	
yl)ethanol 95-38-5			exposure -			
2-(2-Heptadec-8-enyl-2-imidazolin-1-	Workers	dermal	systemic effects Long term		0,06 mg/kg	
vl)ethanol	WOIKEIS	dermai	exposure -		0,00 mg/kg	
95-38-5			systemic effects			
2-(2-Heptadec-8-enyl-2-imidazolin-1-	Workers	Inhalation	Long term		0,46 mg/m3	
yl)ethanol			exposure -			
95-38-5			systemic effects			
(Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine	General population	oral	Acute/short term exposure -		92 mg/kg	
110-25-8	population		systemic effects			
(Z)-N-Methyl-N-(1-oxo-9-	General	oral	Long term		5 mg/kg	
octadecenyl)glycine	population		exposure -			
110-25-8			systemic effects			
(Z)-N-Methyl-N-(1-oxo-9-	General	dermal	Long term		5 mg/kg	
octadecenyl)glycine 110-25-8	population		exposure - systemic effects			
(Z)-N-Methyl-N-(1-oxo-9-	General	dermal	Acute/short term	1	50 mg/kg	
octadecenyl)glycine	population	acrinal	exposure -		Jo mg/Kg	
110-25-8	1 1		systemic effects			
(Z)-N-Methyl-N-(1-oxo-9-	Workers	dermal	Acute/short term		100 mg/kg	
octadecenyl)glycine			exposure -			
110-25-8	Wort	dar1	systemic effects	1	10 m s /l	
(Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine	Workers	dermal	Long term exposure -		10 mg/kg	
110-25-8			systemic effects			
(Z)-N-Methyl-N-(1-oxo-9-	General	inhalation	Acute/short term		9 mg/m3	
octadecenyl)glycine	population		exposure - local			
110-25-8	1	1	effects			
(Z)-N-Methyl-N-(1-oxo-9-	Workers	inhalation	Acute/short term		18 mg/m3	
octadecenyl)glycine 110-25-8			exposure - local effects			
(Z)-N-Methyl-N-(1-oxo-9-	General	inhalation	Long term	+	0,005 mg/m3	
octadecenyl)glycine	population		exposure - local		5,000 mg m3	
110-25-8			effects			
(Z)-N-Methyl-N-(1-oxo-9-	Workers	inhalation	Long term		0,01 mg/m3	
octadecenyl)glycine			exposure - local			

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

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; \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 aerosol

light brown

Odor characteristic

Odour threshold No data available / Not applicable

No data available / Not applicable No data available / Not applicable Melting point Solidification temperature No data available / Not applicable

162 °C (323.6 °F) Initial boiling point

Flash point 39 °C (102.2 °F); no method Evaporation rate No data available / Not applicable Flammability No data available / Not applicable

Explosive limits

 $\begin{array}{c} lower & 0,6 \ \%(V) \\ upper & 14,00 \ \%(V) \\ Vapour pressure & 3,7 \ hPa \end{array}$

Relative vapour density: No data available / Not applicable

Density 0,81 g/cm3

(20 °C (68 °F))

Bulk density No data available / Not applicable Solubility No data available / Not applicable

Solubility (qualitative) Insoluble

(Solvent: Water)

Solubility (qualitative) Soluble

(Solvent: Acetone)

Partition coefficient: n-octanol/water
Auto-ignition temperature
Decomposition temperature
Viscosity
Viscosity
Viscosity
Viscosity
Viscosity
No data available / Not applicable
No data available / Not applicable
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 1174522-20-3	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	Value	Value	Species	Method
CAS-No.	type			
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics 1174522-20-3	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	Value	Value	Test atmosphere	Exposure	Species	Method
CAS-No.	type			time		
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics 1174522-20-3	LC50	> 5,6 mg/l	dust/mist	4 h	rat	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	aerosol	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)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
(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	Result	Exposure	Species	Method
CAS-No.		time		
(2- Methoxymethylethoxy)pr	not irritating		human	not specified
opanol 34590-94-8				
(2- Methoxymethylethoxy)pr opanol 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)pr opanol 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)pr opanol 34590-94-8	NOAEL > 50 mg/l	inhalation	2 weeks (9 exposures) 6 hours/day; 5 days/week	rabbit	not specified
(2- Methoxymethylethoxy)pr opanol 34590-94-8	NOAEL 1.000 mg/kg	oral: gavage	4 weeks daily	rat	not specified
(2- Methoxymethylethoxy)pr opanol 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)pr opanol 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)pr opanol 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)
(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 1174522-20-3	0 mm2/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	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics 1174522-20-3	LL50		96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
(2- Methoxymethylethoxy)propan ol 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			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	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Hydrocarbons, C9-C11, n-	EL50		48 h	Daphnia magna	OECD Guideline 202
alkanes, isoalkanes, cyclics, <					(Daphnia sp. Acute
2% aromatics					Immobilisation Test)
1174522-20-3					
(2-	EC50	1.919 mg/l	48 h	Daphnia magna	OECD Guideline 202
Methoxymethylethoxy)propan					(Daphnia sp. Acute
ol					Immobilisation Test)
34590-94-8					
2-(2-Heptadec-8-enyl-2-	EC50	0,37 mg/l		Daphnia magna	OECD Guideline 202
imidazolin-1-yl)ethanol					(Daphnia sp. Acute
95-38-5					Immobilisation Test)
(Z)-N-Methyl-N-(1-oxo-9-	EC 50	0,61 mg/l	48 h	Water flea (Daphnia magna)	
octadecenyl)glycine					
110-25-8					
(Z)-N-Methyl-N-(1-oxo-9-	EC50	0,61 mg/l		Daphnia magna	OECD Guideline 202
octadecenyl)glycine		-			(Daphnia sp. Acute
110-25-8					Immobilisation Test)

Chronic toxicity to a	quatic	invertebrates
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No data available.

Toxicity (Algae):

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

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics 1174522-20-3	EL50		72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics 1174522-20-3	NOELR		72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
(2- Methoxymethylethoxy)propan ol 34590-94-8	EC50	> 969 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
(2- Methoxymethylethoxy)propan ol 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	Value	Value	Exposure time	Species	Method
CAS-No.	type				
(2-	EC10	4.168 mg/l	18 h	Pseudomonas putida	other guideline:
Methoxymethylethoxy)propan					
ol					
34590-94-8					
2-(2-Heptadec-8-enyl-2-	EC 50	26 mg/l			OECD Guideline 209
imidazolin-1-yl)ethanol					(Activated Sludge,
95-38-5					Respiration Inhibition Test)
(Z)-N-Methyl-N-(1-oxo-9-	EC 50	> 900 mg/l	3 h		OECD Guideline 209
octadecenyl)glycine					(Activated Sludge,
110-25-8					Respiration Inhibition Test)

12.2. Persistence and degradability

No data available.

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics 1174522-20-3	readily biodegradable	aerobic	80 %	28 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
(2- Methoxymethylethoxy)propan ol 34590-94-8	readily biodegradable	aerobic	76 %	28 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
(2- Methoxymethylethoxy)propan ol 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		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" BiodegradabilityClosed Bottle Test)

12.3. Bioaccumulative potential

No data available.

No substance data available.

12.4. Mobility in soil

The product evaporates readily.

Hazardous substances	LogPow	Temperature	Method
CAS-No.			
(2-	0,004	25 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake
Methoxymethylethoxy)propan			Flask Method)
ol			
34590-94-8			
2-(2-Heptadec-8-enyl-2-	7,51		not specified
imidazolin-1-yl)ethanol			
95-38-5			

12.5. Results of PBT and vPvB assessment

Hazardous substances	PBT / vPvB
CAS-No.	
Hydrocarbons, C9-C11, n-alkanes, isoalkanes,	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
cyclics, < 2% aromatics	Bioaccumulative (vPvB) criteria.
1174522-20-3	
(2-Methoxymethylethoxy)propanol	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
34590-94-8	Bioaccumulative (vPvB) criteria.
2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
95-38-5	Bioaccumulative (vPvB) criteria.
(Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
110-25-8	Bioaccumulative (vPvB) criteria.

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

Dispose of in accordance with local and national regulations.

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

Disposal of uncleaned packages:

Disposal must be made according to official regulations.

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

ADR	1950
RID	1950
ADN	1950
IMDG	1950
IATA	1950

14.2. UN proper shipping name

ADR	AEROSOLS
RID	AEROSOLS
ADN	AEROSOLS

IMDG AEROSOLS (2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol,(Z)-N-Methyl-N-(1-

oxo-9-octadecenyl)glycine)

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	Environmentally Hazardous
RID	Environmentally Hazardous
ADN	Environmentally Hazardous
IMDC	Moring mallytant

IMDG Marine pollutant 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

SECTION 15: Regulatory information

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

VOC content (2010/75/EC)

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text

of all abbreviations indicated by codes in this safety data sheet are as follows:

H226 Flammable liquid and vapor.

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:

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This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

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.