



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

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LOCTITE LB 8025 known as Loctite 8025 1Kg,En/De/Fr/Nl

SDS No. : 283438

V006.0

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Replaces version from: 18.05.2021

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

#### 1.1. Product identifier

LOCTITE LB 8025 known as Loctite 8025 1Kg,En/De/Fr/Nl

#### 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 <https://mysds.henkel.com/index.html#/appSelection> or [www.henkel-adhesives.com](http://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):

Chronic hazards to the aquatic environment  
H412 Harmful to aquatic life with long lasting effects.

Category 3

#### 2.2. Label elements

##### Label elements (CLP):

##### Hazard statement:

H412 Harmful to aquatic life with long lasting effects.

##### Supplemental information

Contains: Nickel powder [particle diameter < 1 mm]; Polysulfides, di-tert-Bu **May produce an allergic reaction.**

##### Precautionary statement: Prevention

P273 Avoid release to the environment.

**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****General chemical description:**

Lubricant

**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
Distillates (petroleum), hydrotreated heavy paraffinic, <3% DMSO, <20.5mm <sup>2</sup> /sec (not cmr) 64742-54-7 265-157-1 01-2119484627-25	2,5- < 10 %	Asp. Tox. 1, H304		
Ethyl 3-[[bis(1-methylethoxy)phosphinothioyl]thio]propionate 71735-74-5 275-965-6 01-2119976328-24	2,5- < 10 %	Aquatic Chronic 2, H411		
Hydrocarbons, C9, aromatics 128601-23-0 01-2119455851-35	1- < 2,5 %	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H335 STOT SE 3, H336 Aquatic Chronic 2, H411		
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatic 918-481-9 01-2119457273-39	1- < 2,5 %	Asp. Tox. 1, H304		
dilithium azelate 38900-29-7 254-184-4 01-2120119814-57	1- < 2,5 %	Acute Tox. 4, Oral, H302		
Nickel powder [particle diameter < 1 mm] 7440-02-0 231-111-4 01-2119438727-29	0,1- < 1 %	STOT RE 1, H372 Skin Sens. 1, H317 Aquatic Chronic 3, H412 Carc. 2, H351		
Polysulfides, di-tert-Bu 68937-96-2 273-103-3 01-2119540515-43	0,25- < 1 %	Skin Sens. 1, H317 Aquatic Chronic 3, H412	oral:ATE = 2.500 mg/kg	
2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol 95-38-5 202-414-9 01-2119777867-13	0,01- < 0,025 %	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	

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.

Seek medical advice.

Eye contact:

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

Ingestion:

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

Seek medical advice.

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

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:**

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**

In the event of a fire, carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>) 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 skin and eye contact.

Ensure adequate ventilation.

Wear protective equipment.

#### **6.2. Environmental precautions**

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

#### **6.3. Methods and material for containment and cleaning up**

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

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

Dispose of contaminated material as waste according to Section 13.

#### **6.4. Reference to other sections**

See advice in section 8

### **SECTION 7: Handling and storage**

#### **7.1. Precautions for safe handling**

Use only in well-ventilated areas.

Vapours should be extracted to avoid inhalation.

Avoid skin and eye contact.

See advice in section 8

Hygiene measures:

Good industrial hygiene practices should be observed.

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

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

Ensure good ventilation/extraction.

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
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9 [SILICA, AMORPHOUS, RESPIRABLE DUST]		2,4	Time Weighted Average (TWA):		EH40 WEL
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9 [SILICA, AMORPHOUS, INHALABLE DUST]		6	Time Weighted Average (TWA):		EH40 WEL
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9 [Dust, inhalable dust]		10	Time Weighted Average (TWA):		EH40 WEL
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9 [Dust, respirable dust]		4	Time Weighted Average (TWA):		EH40 WEL
Nickel 7440-02-0 [NICKEL AND ITS INORGANIC COMPOUNDS (EXCEPT NICKEL TETRACARBONYL): NICKEL AND WATER-INSOLUBLE NICKEL COMPOUNDS (AS NI)]		0,5	Time Weighted Average (TWA):		EH40 WEL
Nickel 7440-02-0 [NICKEL AND ITS INORGANIC COMPOUNDS (EXCEPT NICKEL TETRACARBONYL): NICKEL AND WATER-INSOLUBLE NICKEL COMPOUNDS (AS NI)]			Skin designation:	Can be absorbed through the skin.	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
Residual oils (petroleum), solvent-dewaxed 64742-62-7 [MINERAL OIL PURE, HIGHLY & SEVERELY REFINED]		5	Time Weighted Average (TWA):		IR_OEL
Distillates (petroleum), hydrotreated heavy paraffinic 64742-54-7 [MINERAL OIL PURE, HIGHLY & SEVERELY REFINED]		5	Time Weighted Average (TWA):		IR_OEL
Distillates (petroleum), hydrotreated heavy paraffinic 64742-54-7 [MINERAL OILS THAT HAVE BEEN USED BEFORE IN INTERNAL COMBUSTION ENGINES TO LUBRICATE AND COOL THE MOVING PARTS WITHIN THE ENGINE]			Skin designation:	Can be absorbed through the skin.	IR_OEL
Distillates (petroleum), hydrotreated heavy paraffinic 64742-54-7 [MINERAL OILS THAT HAVE BEEN USED BEFORE IN INTERNAL COMBUSTION ENGINES TO LUBRICATE AND COOL THE MOVING PARTS WITHIN THE ENGINE]				Included in the regulation but with no data values. See regulation for further details	IR_OEL

COMBUSTION ENGINES TO LUBRICATE AND COOL THE MOVING PARTS WITHIN THE ENGINE]					
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9 [DUSTS NON-SPECIFIC]		10	Time Weighted Average (TWA):		IR_OEL
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9 [SILICA, AMORPHOUS]		2,4	Time Weighted Average (TWA):		IR_OEL
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9 [SILICA, AMORPHOUS]		6	Time Weighted Average (TWA):		IR_OEL
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9 [DUSTS NON-SPECIFIC]		4	Time Weighted Average (TWA):		IR_OEL
Nickel 7440-02-0 [NICKEL]		0,5	Time Weighted Average (TWA):		IR_OEL

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

Name on list	Environmental Compartment	Exposure period	Value				Remarks
			mg/l	ppm	mg/kg	others	
Distillates (petroleum), hydrotreated heavy paraffinic, <3% DMSO, <20.5mm <sup>2</sup> /sec (not cmr) 64742-54-7	oral				9,33 mg/kg		
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatic	Air						no hazard identified
Nickel 7440-02-0	Soil				29,9 mg/kg		
Nickel 7440-02-0	aqua (freshwater)		0,0071 mg/l				
Nickel 7440-02-0	aqua (marine water)		0,0086 mg/l				
Nickel 7440-02-0	sewage treatment plant (STP)		0,33 mg/l				
Nickel 7440-02-0	sediment (freshwater)				109 mg/kg		
Nickel 7440-02-0	sediment (marine water)				109 mg/kg		
Nickel 7440-02-0	oral				0,12 mg/kg		
Nickel 7440-02-0	aqua (intermittent releases)		0 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		



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

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Distillates (petroleum), hydrotreated heavy paraffinic, <3% DMSO, <20.5mm <sup>2</sup> /sec (not cmr) 64742-54-7	Workers	inhalation	Long term exposure - local effects		5,4 mg/m <sup>3</sup>	
Hydrocarbons, C9, aromatics 128601-23-0	Workers	inhalation	Long term exposure - systemic effects		100 mg/m <sup>3</sup>	
Hydrocarbons, C9, aromatics 128601-23-0	Workers	dermal	Long term exposure - systemic effects		25 mg/kg	
Hydrocarbons, C9, aromatics 128601-23-0	General population	inhalation	Long term exposure - systemic effects		32 mg/m <sup>3</sup>	
Hydrocarbons, C9, aromatics 128601-23-0	General population	dermal	Long term exposure - systemic effects		11 mg/kg	
Hydrocarbons, C9, aromatics 128601-23-0	General population	oral	Long term exposure - systemic effects		11 mg/kg	
Nickel 7440-02-0	Workers	inhalation	Long term exposure - systemic effects		0,05 mg/m <sup>3</sup>	
Nickel 7440-02-0	Workers	inhalation	Long term exposure - local effects		0,05 mg/m <sup>3</sup>	
Nickel 7440-02-0	Workers	inhalation	Acute/short term exposure - local effects		11,9 mg/m <sup>3</sup>	
Nickel 7440-02-0	Workers	dermal	Long term exposure - local effects		0,035 mg/cm <sup>2</sup>	
Nickel 7440-02-0	General population	inhalation	Long term exposure - systemic effects		0,06 mg/m <sup>3</sup>	
Nickel 7440-02-0	General population	inhalation	Long term exposure - local effects		0,06 mg/m <sup>3</sup>	
Nickel 7440-02-0	General population	inhalation	Acute/short term exposure - local effects		0,8 mg/m <sup>3</sup>	
Nickel 7440-02-0	General population	dermal	Long term exposure - systemic effects		0,035 mg/cm <sup>2</sup>	
Nickel 7440-02-0	General population	oral	Long term exposure - systemic effects		0,011 mg/kg	
Nickel 7440-02-0	General population	oral	Acute/short term exposure - systemic effects		0,37 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/m <sup>3</sup>	
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/m <sup>3</sup>	

**Biological Exposure Indices:**

None

**8.2. Exposure controls:**

Engineering controls:

Ensure good ventilation/extraction.

Respiratory protection:

Use only in well-ventilated areas.

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:

Wear protective glasses.

Protective eye equipment should conform to EN166.

Skin protection:

Wear suitable protective clothing.

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

Advices to personal protection equipment:

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

## SECTION 9: Physical and chemical properties

**9.1. Information on basic physical and chemical properties**

Delivery form	Currently under determination
Colour	Silver
Odor	Characteristic
Physical state	liquid
Melting point	Not applicable, Product is a liquid
Initial boiling point	> 316 °C (> 600.8 °F)
Flammability	Currently under determination
Explosive limits	
lower	0,6 % (V);
upper	7,5 % (V);
Flash point	61 °C (141.8 °F)
Auto-ignition temperature	Currently under determination
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-polar/aprotic.
Viscosity (kinematic)	Currently under determination
Solubility (qualitative)	Not miscible or difficult to mix
(20 °C (68 °F); Solvent: Water)	

Partition coefficient: n-octanol/water

Not applicable

Vapour pressure

Mixture

Density

Currently under determination

(20 °C (68 °F))

0,9 g/cm<sup>3</sup> None

Relative vapour density:

Currently under determination

Particle characteristics

Not applicable

Product is a liquid

**9.2. Other information**

Other information not applicable for this product

**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**

Stable

**10.5. Incompatible materials**

See section reactivity.

**10.6. Hazardous decomposition products**

Irritating organic vapours.

**SECTION 11: Toxicological information****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
Distillates (petroleum), hydrotreated heavy paraffinic, <3% DMSO, <20.5mm <sup>2</sup> /sec (not cmr) 64742-54-7	LD50	> 5.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Hydrocarbons, C9, aromatics 128601-23-0	LD50	3.492 mg/kg	rat	not specified
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatic	LD50	> 15.000 mg/kg	rat	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
Nickel powder [particle diameter < 1 mm] 7440-02-0	LD50	> 9.000 mg/kg	rat	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
Polysulfides, di-tert-Bu 68937-96-2	LD50	> 2.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Polysulfides, di-tert-Bu 68937-96-2	Acute toxicity estimate (ATE)	2.500 mg/kg		Expert judgement
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)

**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
Distillates (petroleum), hydrotreated heavy paraffinic, <3% DMSO, <20.5mm <sup>2</sup> /sec (not cmr) 64742-54-7	LD50	> 5.000 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)
Hydrocarbons, C9, aromatics 128601-23-0	LD50	> 3.160 mg/kg	rabbit	equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity)
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatic	LD50	> 5.000 mg/kg	rabbit	equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity)
dilithium azelate 38900-29-7	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
Polysulfides, di-tert-Bu 68937-96-2	LD50	> 2.000 mg/kg	rat	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
Distillates (petroleum), hydrotreated heavy paraffinic, <3% DMSO, <20.5mm <sup>2</sup> /sec (not cmr) 64742-54-7	LC50	> 5,53 mg/l	dust/mist	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)
Hydrocarbons, C9, aromatics 128601-23-0	LC50	> 6,193 mg/l	vapour	4 h	rat	equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity)
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatic	LC50	> 5,6 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
Distillates (petroleum), hydrotreated heavy paraffinic, <3% DMSO, <20.5mm <sup>2</sup> /sec (not cmr) 64742-54-7	not irritating	24 h	rabbit	not specified
Hydrocarbons, C9, aromatics 128601-23-0	mildly irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatic	mildly irritating	4 h	rabbit	equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol 95-38-5	corrosive	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

**Serious eye damage/irritation:**

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

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Distillates (petroleum), hydrotreated heavy paraffinic, <3% DMSO, <20.5mm <sup>2</sup> /sec (not cmr) 64742-54-7	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Hydrocarbons, C9, aromatics 128601-23-0	not irritating		rabbit	equivalent or similar to 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
Distillates (petroleum), hydrotreated heavy paraffinic, <3% DMSO, <20.5mm <sup>2</sup> /sec (not cmr) 64742-54-7	not sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Hydrocarbons, C9, aromatics 128601-23-0	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Polysulfides, di-tert-Bu 68937-96-2	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
Distillates (petroleum), hydrotreated heavy paraffinic, <3% DMSO, <20.5mm <sup>2</sup> /sec (not cmr) 64742-54-7	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Hydrocarbons, C9, aromatics 128601-23-0	negative	sister chromatid exchange assay in mammalian cells	with and without		equivalent or similar to OECD Guideline 479 (Genetic Toxicology: In Vitro Sister Chromatid Exchange Assay in Mammalian Cells)
Hydrocarbons, C9, aromatics 128601-23-0	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Hydrocarbons, C9, aromatics 128601-23-0	negative	mammalian cell gene mutation assay	with and without		equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Hydrocarbons, C9, aromatics 128601-23-0	negative	in vitro mammalian chromosome aberration test	with and without		equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration 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
Distillates (petroleum), hydrotreated heavy paraffinic, <3% DMSO, <20.5mm <sup>2</sup> /sec (not cmr) 64742-54-7	not carcinogenic	dermal	78 w various	mouse	female	OECD Guideline 451 (Carcinogenicity Studies)

**Reproductive toxicity:**

No data available.

**STOT-single exposure:**

No data available.

**STOT-repeated exposure:**

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

Hazardous substances CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
2-(2-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)

**Aspiration hazard:**

The mixture is classified based on Viscosity data.

Hazardous substances CAS-No.	Viscosity (kinematic) Value	Temperature	Method	Remarks
Distillates (petroleum), hydrotreated heavy paraffinic, <3% DMSO, <20.5mm <sup>2</sup> /sec (not cmr) 64742-54-7	20 mm <sup>2</sup> /s	40 °C	not specified	
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatic	1,13 mm <sup>2</sup> /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
Distillates (petroleum), hydrotreated heavy paraffinic, <3% DMSO, <20.5mm <sup>2</sup> /sec (not cmr) 64742-54-7	LL50	> 100 mg/l	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
Ethyl 3-[[bis(1-methylethoxy)phosphinothioyl]thio]propionate 71735-74-5	LC50	1,73 mg/l	96 h	Danio rerio (reported as Brachydanio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Hydrocarbons, C9, aromatics 128601-23-0	LL50	9,2 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatic	LL50	> 1.000 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
dilithium azelate 38900-29-7	LC50	> 100 mg/l	96 h	Cyprinus carpio	OECD Guideline 203 (Fish, Acute Toxicity Test)
Nickel powder [particle diameter < 1 mm] 7440-02-0	LC50	Toxicity > Water solubility	96 h	Brachydanio rerio (new name: Danio rerio)	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)

#### 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
Distillates (petroleum), hydrotreated heavy paraffinic, <3% DMSO, <20.5mm <sup>2</sup> /sec (not cmr) 64742-54-7	EL50	> 10.000 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Ethyl 3-[[bis(1-methylethoxy)phosphinothioyl]thio]propionate 71735-74-5	EC50	4,01 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Hydrocarbons, C9, aromatics 128601-23-0	EL50	3,2 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatic	EL50	> 1.000 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
dilithium azelate 38900-29-7	EC50	> 100 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Nickel powder [particle diameter < 1 mm] 7440-02-0	EC50	Toxicity > Water solubility	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Polysulfides, di-tert-Bu 68937-96-2	EL50	63 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol	EC50	0,163 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

95-38-5					Immobilisation Test)
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**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
Distillates (petroleum), hydrotreated heavy paraffinic, <3% DMSO, <20.5mm <sup>2</sup> /sec (not cmr) 64742-54-7	NOELR	10 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
Ethyl 3-[[bis(1- methylethoxy)phosphinothioyl thio]propionate 71735-74-5	EC10	0,196 mg/l	21 day	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
Distillates (petroleum), hydrotreated heavy paraffinic, <3% DMSO, <20.5mm <sup>2</sup> /sec (not cmr) 64742-54-7	EL50	> 100 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Distillates (petroleum), hydrotreated heavy paraffinic, <3% DMSO, <20.5mm <sup>2</sup> /sec (not cmr) 64742-54-7	NOELR	100 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Ethyl 3-[[bis(1-methylethoxy)phosphinothioyl ]thio]propionate 71735-74-5	EC50	8,28 mg/l	72 h	Raphidocelis subcapitata (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Ethyl 3-[[bis(1-methylethoxy)phosphinothioyl ]thio]propionate 71735-74-5	EC10	3,93 mg/l	72 h	Raphidocelis subcapitata (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Hydrocarbons, C9, aromatics 128601-23-0	NOELR	1 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Hydrocarbons, C9, aromatics 128601-23-0	EL50	2,9 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Hydrocarbons, C10-C13, n- alkanes, isoalkanes, cyclics, < 2% aromatic	EL50	> 1.000 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Hydrocarbons, C10-C13, n- alkanes, isoalkanes, cyclics, < 2% aromatic	NOELR	1.000 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
dilithium azelate 38900-29-7	EC50	> 100 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
dilithium azelate 38900-29-7	NOEC	> 100 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Polysulfides, di-tert-Bu 68937-96-2	EL50	> 100 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Polysulfides, di-tert-Bu 68937-96-2	NOELR	> 100 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 (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
Ethyl 3-[[bis(1-methylethoxy)phosphinothioyl ]thio]propionate 71735-74-5	IC50	100 mg/l	3 h	activated sludge, domestic	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
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)

#### 12.2. Persistence and degradability

The product is not biodegradable.

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
Distillates (petroleum), hydrotreated heavy paraffinic, <3% DMSO, <20.5mm <sup>2</sup> /sec (not cmr) 64742-54-7	not readily biodegradable.	aerobic	31 %	28 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
Ethyl 3-[[bis(1- methylethoxy)phosphinothioyl thio]propionate 71735-74-5	not readily biodegradable.	aerobic	33 %	28 day	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Hydrocarbons, C9, aromatics 128601-23-0	readily biodegradable	aerobic	78 %	28 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
Hydrocarbons, C10-C13, n- alkanes, isoalkanes, cyclics, < 2% aromatic	readily biodegradable, but failing 10-day window	aerobic	80 %	28 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
dilithium azelate 38900-29-7	readily biodegradable	aerobic	> 79 - < 89 %	19 d	OECD Guideline 301 E (Ready biodegradability: Modified OECD Screening Test)
Polysulfides, di-tert-Bu 68937-96-2	not readily biodegradable.	aerobic	13 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution 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)

### 12.3. Bioaccumulative potential

No data available.

**12.4. Mobility in soil**

Cured adhesives are immobile.

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

Hazardous substances CAS-No.	LogPow	Temperature	Method
Hydrocarbons, C9, aromatics 128601-23-0	> 4		QSAR (Quantitative Structure Activity Relationship)
dilithium azelate 38900-29-7	1,57	25 °C	not specified

**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
Distillates (petroleum), hydrotreated heavy paraffinic, <3% DMSO, <20.5mm <sup>2</sup> /sec (not cmr) 64742-54-7	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Hydrocarbons, C9, aromatics 128601-23-0	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatic	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Nickel powder [particle diameter < 1 mm] 7440-02-0	According to Annex XIII of regulation (EC) 1907/2006 a PBT and vPvB assessment shall not be conducted for inorganic substances.
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.

**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:

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

Dispose of in accordance with local and national regulations.

Disposal of uncleaned packages:

After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.

Waste code

08 04 09\* waste adhesives and sealants containing organic solvents and other dangerous substances

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

**SECTION 14: Transport information****14.1. UN number or ID number**

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

**14.2. UN proper shipping name**

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

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

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

**14.4. Packing group**

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

**14.5. Environmental hazards**

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

**14.6. Special precautions for user**

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

**14.7. 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 < 5 %  
(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 vapour.  
H302 Harmful if swallowed.  
H304 May be fatal if swallowed and enters airways.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H351 Suspected of causing cancer.  
H372 Causes damage to organs through prolonged or repeated exposure.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H411 Toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.

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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