according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



Klüberlub BE 41-1501

Version Revision Date: Date of last issue: 2022-09-08 Print Date: 2023-

4.4 2023-11-01 Date of first issue: 2015-06-22 11-01

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

1.1 Product identifier

Product name : Klüberlub BE 41-1501

Article-No. : 097115

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

Use of the : Grease

Substance/Mixture

Recommended restrictions

on use

Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

Company : Klüber Lubrication München GmbH & Co. KG

Geisenhausenerstr. 7 81379 München Deutschland

Tel.: +49 (0) 89 7876 0 Fax: +49 (0) 89 7876 333

info@klueber.com

E-mail address of person : mcm@klueber.com

responsible for the SDS Material Compliance Management

National contact : Klüber Lubrication Nordic A/S

Vasagatan 36 111 20 Stockholm

Sweden

Tel: +46 8 59098600 Fax: +46 8 59098601 klueber.se@klueber.com

1.4 Emergency telephone number

Emergency telephone

number

112 - ask for poison information

+49 89 7876 700 (24 hrs)

according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



Klüberlub BE 41-1501

Version Revision Date: Date of last issue: 2022-09-08 Print Date: 2023-

4.4 2023-11-01 Date of first issue: 2015-06-22 11-01

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2 H315: Causes skin irritation.

Eye irritation, Category 2 H319: Causes serious eye irritation.

Long-term (chronic) aquatic hazard,

Category 3

H412: Harmful to aquatic life with long lasting

effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

(!)

Signal word : Warning

Hazard statements : H315 Causes skin irritation.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting

effects.

Precautionary statements : Prevention:

P264 Wash skin thoroughly after handling. P273 Avoid release to the environment.

P280 Wear protective gloves/ eye protection/ face

protection.

Response:

P332 + P313 If skin irritation occurs: Get medical advice/

attention.

P337 + P313 If eye irritation persists: Get medical advice/

attention.

P362 + P364 Take off contaminated clothing and wash it

before reuse.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.



according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



Klüberlub BE 41-1501

Version Revision Date: Date of last issue: 2022-09-08 Print Date: 2023-

4.4 2023-11-01 Date of first issue: 2015-06-22 11-01

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Mineral oil.

special lithium soap solid lubricant

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	specific concentration limit M-Factor Notes Acute toxicity estimate	Concentration (% w/w)
1,3,4-Thiadiazolidine- 2,5-dithione, reaction products with hydrogen peroxide and tert-nonanethiol	91648-65-6 293-927-7 01-2119976351-35- XXXX	Aquatic Chronic3; H412		>= 1 - < 2,5
2-(2-heptadec-8-enyl- 2-imidazolin-1- yl)ethanol	95-38-5 202-414-9 01-2119777867-13- XXXX	Acute Tox.4; H302 Skin Corr.1C; H314 Eye Dam.1; H318 STOT RE2; H373 Aquatic Acute1; H400 Aquatic Chronic1; H410	M-Factor: 10/1	>= 1 - < 2,5
Substances with a work				
Residual oils (petroleum), solvent- dewaxed; Baseoil — unspecified	64742-62-7 265-166-0 649-471-00-X 01-2119480472-38- xxxx	Not classified	Note L	>= 50 - < 70
lithium 12- hydroxystearate	7620-77-1 231-536-5	Not classified		>= 1 - < 10

according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



Klüberlub BE 41-1501	

 Version
 Revision Date:
 Date of last issue: 2022-09-08
 Print Date: 2023

 4.4
 2023-11-01
 Date of first issue: 2015-06-22
 11-01

	01-2119970893-23- XXXX 01-2119970893-23- XXXX 01-2119970893-23- XXXX 01-2119970893-23- XXXX			
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified	64742-52-5 265-155-0 649-465-00-7 01-2119467170-45- XXXX	Not classified	Note L	>= 1 - < 10
Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified	64742-54-7 265-157-1 649-467-00-8 01-2119484627-25- XXXX	Not classified	Note L	>= 1 - < 10
Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified	64742-65-0 265-169-7 649-474-00-6 01-2119471299-27- XXXX	Not classified	Note L	>= 1 - < 10

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled : Remove person to fresh air. If signs/symptoms continue, get

medical attention.

Keep patient warm and at rest.

If unconscious, place in recovery position and seek medical

advice.

Keep respiratory tract clear.

If breathing is irregular or stopped, administer artificial

respiration.

In case of skin contact : Take off all contaminated clothing immediately.

Wash off immediately with soap and plenty of water.

Get medical attention immediately if irritation develops and

persists.



according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



Klüberlub BE 41-1501

Version Revision Date: Date of last issue: 2022-09-08 Print Date: 2023-

4.4 2023-11-01 Date of first issue: 2015-06-22 11-01

Wash clothing before reuse.

Thoroughly clean shoes before reuse.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,

for at least 10 minutes. Seek medical advice.

If swallowed : Move the victim to fresh air.

If unconscious, place in recovery position and seek medical

advice.

Keep respiratory tract clear.

Do not induce vomiting without medical advice.

Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Skin contact may provoke the following symptoms:

Erythema

Risks : Causes skin irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or

carbon dioxide.

Unsuitable extinguishing

media

High volume water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion : Carbon oxides

products Nitrogen oxides (NOx)

Sulphur oxides

Oxides of phosphorus

Metal oxides

5.3 Advice for firefighters

Special protective equipment :

for firefighters

In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment. Exposure to decomposition products may be a hazard to health.

Further information : Standard procedure for chemical fires.

a brand of

FREUDENBERG

according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



Klüberlub BE 41-1501

Version Revision Date: Date of last issue: 2022-09-08 Print Date: 2023-

4.4 2023-11-01 Date of first issue: 2015-06-22 11-01

Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Evacuate personnel to safe areas.

Ensure adequate ventilation. Do not breathe vapours, aerosols.

Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Environmental precautions : Do not allow contact with soil, surface or ground water.

If the product contaminates rivers and lakes or drains inform

respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Pick up and transfer to properly labelled containers.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid contact with skin and eyes.

For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Wash hands and face before breaks and immediately after

handling the product.

Do not get in eyes or mouth or on skin.

Do not get on skin or clothing.

Do not ingest. Do not repack.

These safety instructions also apply to empty packaging which

may still contain product residues. Keep container closed when not in use.

Hygiene measures : Wash face, hands and any exposed skin thoroughly after

handling.



according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



Klüberlub BE 41-1501

Version Revision Date: Date of last issue: 2022-09-08 Print Date: 2023-

4.4 2023-11-01 Date of first issue: 2015-06-22 11-01

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: Store in original container. Keep container closed when not in use. Keep in a dry, cool and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in accordance with the particular national regulations. Keep in properly labelled containers.

7.3 Specific end use(s)

Specific use(s) : Specific instructions for handling, not required.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Residual oils (petroleum), solvent-dewaxed; Baseoil — unspecified	64742-62-7	NGVTime Weighted Average (Mist)	1 mg/m3	SE AFS (2020-09-28)
		KGVShort Term Exposure Limit (Mist)	3 mg/m3	SE AFS (2020-09-28)
			ort term limit value shall be us	sed as a
			d should not be exceeded	T
lithium 12- hydroxystearate	7620-77-1	NGVTime Weighted Average (Total dust)	5 mg/m3	SE AFS (2018-02-19)
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified	64742-52-5	NGVTime Weighted Average (Mist)	1 mg/m3	SE AFS (2020-09-28)
		KGVShort Term Exposure Limit (Mist)	3 mg/m3	SE AFS (2020-09-28)
	Further information: Indicative short term limit value shall be used as a recommended maximum value and should not be exceeded			
Distillates	64742-54-7			SE AFS
(petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified	04/42-04-7	NGVTime Weighted Average (Mist)	1 mg/m3	(2020-09-28)



according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



Klüberlub BE 41-1501

 Version
 Revision Date:
 Date of last issue: 2022-09-08
 Print Date: 2023

 4.4
 2023-11-01
 Date of first issue: 2015-06-22
 11-01

		KGVShort Term Exposure Limit (Mist)	3 mg/m3	SE AFS (2020-09-28)
			ort term limit value shall be us ad should not be exceeded	sed as a
Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified	64742-65-0	NGVTime Weighted Average (Mist)	1 mg/m3	SE AFS (2020-09-28)
		KGVShort Term Exposure Limit (Mist)	3 mg/m3	SE AFS (2020-09-28)
	Further information: Indicative short term limit value shall be used as a recommended maximum value and should not be exceeded			

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Residual oils (petroleum), solvent- dewaxed; Baseoil — unspecified	Workers	Inhalation	Long-term systemic effects	2,73 mg/m3
	Workers	Inhalation	Long-term local effects	5,58 mg/m3
	Workers	Dermal	Long-term systemic effects	0,97 mg/kg
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified	Workers	Inhalation	Long-term local effects	5,58 mg/m3
·	Workers	Inhalation	Long-term systemic effects	2,73 mg/m3
	Workers	Skin contact	Long-term systemic effects	0,97 mg/kg
1,3,4-Thiadiazolidine- 2,5-dithione, reaction products with hydrogen peroxide and tert-nonanethiol	Workers	Inhalation	Long-term systemic effects	4,408 mg/m3
	Workers	Dermal	Long-term systemic effects	6,25 mg/kg bw/day
Reaction mass of p-t- butylphenyldiphenyl phosphate and bis(p- t-butylphenyl) phenyl phosphate	Workers	Inhalation	Long-term systemic effects	2,03 mg/m3
	Workers	Inhalation	Long-term local	0,2 mg/m3



according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



Klüberlub BE 41-1501

 Version
 Revision Date:
 Date of last issue: 2022-09-08
 Print Date: 2023

 4.4
 2023-11-01
 Date of first issue: 2015-06-22
 11-01

			effects	
	Workers	Dermal	Long-term systemic effects	0,056 mg/kg bw/day
	Workers	Dermal	Long-term local effects	0,001 mg/cm2
2-(2-heptadec-8-enyl- 2-imidazolin-1- yl)ethanol	Workers	Skin contact	Long-term systemic effects	0,06 mg/kg
	Workers	Inhalation	Long-term systemic effects	0,46 mg/m3
	Workers	Skin contact	Acute systemic effects	2 mg/kg
	Workers	Inhalation	Acute systemic effects	14 mg/m3
Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified	Workers	Inhalation	Long-term local effects	5,58 mg/m3
	Workers	Inhalation	Long-term systemic effects	2,73 mg/m3
	Workers	Skin contact	Long-term systemic effects	0,97 mg/kg
Distillates (petroleum), solvent- dewaxed heavy paraffinic; Baseoil — unspecified	Workers	Inhalation	Long-term systemic effects	2,73 mg/m3
	Workers	Skin contact	Long-term systemic effects	0,97 mg/kg

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Residual oils (petroleum), solvent-dewaxed; Baseoil —	Oral	9,33 mg/kg
unspecified		
Distillates (petroleum),	Oral	9,33 mg/kg
hydrotreated heavy naphthenic;		
Baseoil — unspecified		0.044 //
1,3,4-Thiadiazolidine-2,5-	Fresh water	0,041 mg/l
dithione, reaction products with		
hydrogen peroxide and tert-		
nonanethiol		
	Marine water	0,004 mg/l
	Intermittent use/release	0,41 mg/l
	Sewage treatment plant	8000 mg/l
	Fresh water sediment	380,62 mg/kg dry
		weight (d.w.)
	Marine sediment	38,06 mg/kg dry
		weight (d.w.)



according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



Klüberlub BE 41-1501

 Version
 Revision Date:
 Date of last issue: 2022-09-08
 Print Date: 2023

 4.4
 2023-11-01
 Date of first issue: 2015-06-22
 11-01

	Soil	308,96 mg/kg dry weight (d.w.)
	Oral	6,67 mg/l
Reaction mass of p-t- butylphenyldiphenyl phosphate and bis(p-t-butylphenyl) phenyl phosphate	Fresh water	0,000116 mg/l
	Marine water	0,000012 mg/l
	Microbiological Activity in Sewage Treatment Systems	1 mg/l
	Fresh water sediment	0,51 mg/kg
	Marine sediment	0,051 mg/kg
	Soil	0,118 mg/kg
2-(2-heptadec-8-enyl-2- imidazolin-1-yl)ethanol	Fresh water	0,00003 mg/l
	Marine water	0,000003 mg/l
	Fresh water sediment	0,376 mg/kg
	Marine sediment	0,0376 mg/kg
	Soil	0,075 mg/kg
Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified	Oral	9,33 mg/kg
Distillates (petroleum), solvent- dewaxed heavy paraffinic; Baseoil — unspecified	Oral	9,33 mg/kg

8.2 Exposure controls

Engineering measures

none

Personal protective equipment

Eye/face protection : Safety glasses

Hand protection

Material : Nitrile rubber
Break through time : > 10 min
Protective index : Class 1

Remarks : Wear protective gloves. The break through time depends

amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each

case.

The selected protective gloves have to satisfy the

specifications of Regulation (EU) 2016/425 and the standard

EN 374 derived from it.

Skin and body protection : Choose body protection in relation to its type, to the

concentration and amount of dangerous substances, and to

the specific work-place.

according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



Klüberlub BE 41-1501

Version Revision Date: Date of last issue: 2022-09-08 Print Date: 2023-

4.4 2023-11-01 Date of first issue: 2015-06-22 11-01

Respiratory protection : Not required; except in case of aerosol formation.

Filter type : Filter type P

Protective measures : The type of protective equipment must be selected according

to the concentration and amount of the dangerous substance

at the specific workplace.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : paste

Colour : black

Odour : characteristic

Odour Threshold : No data available

Melting point/range : No data available

Boiling point/boiling range : No data available

Flammability (solid, gas) : Combustible Solids

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Flash point : Not applicable

Auto-ignition temperature : No data available

Decomposition temperature : No data available

pH : Not applicable

substance/mixture is non-soluble (in water)

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : Not applicable

according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



Klüberlub BE 41-1501

Version Revision Date: Date of last issue: 2022-09-08 Print Date: 2023-

4.4 2023-11-01 Date of first issue: 2015-06-22 11-01

Solubility(ies)

Water solubility : insoluble

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Vapour pressure : < 0,001 hPa (20 °C)

Relative density : 0,92 (20 °C)

Reference substance: Water The value is calculated

Density : 0,92 g/cm3

(20 °C)

Bulk density : No data available

Relative vapour density : No data available

Particle characteristics

Particle size : Not applicable

Particle Size Distribution : Not applicable

9.2 Other information

Explosives : Not explosive

Oxidizing properties : No data available

Self-ignition : No data available

Evaporation rate : No data available

Sublimation point : No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No hazards to be specially mentioned.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



Klüberlub BE 41-1501

Version Revision Date: Date of last issue: 2022-09-08 Print Date: 2023-

4.4 2023-11-01 Date of first issue: 2015-06-22 11-01

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : No conditions to be specially mentioned.

10.5 Incompatible materials

Materials to avoid : No materials to be especially mentioned.

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg

Method: Calculation method

Acute inhalation toxicity : Remarks: This information is not available.

Acute dermal toxicity : Symptoms: Redness, Local irritation

Components:

1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tertnonanethiol:

Acute oral toxicity : LD50 (Rat): > 10.000 mg/kg

Method: OECD Test Guideline 401

GLP: no

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg

Method: OECD Test Guideline 402

GLP: no

Assessment: The substance or mixture has no acute dermal

toxicity

2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol:

Acute oral toxicity : LD50 (Rat): 1.265 mg/kg

Method: OECD Test Guideline 401

GLP: yes

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg

Assessment: The substance or mixture has no acute dermal

according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



Klüberlub BE 41-1501

Version Revision Date: Date of last issue: 2022-09-08 Print Date: 2023-

4.4 2023-11-01 Date of first issue: 2015-06-22 11-01

toxicity

Residual oils (petroleum), solvent-dewaxed; Baseoil — unspecified:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Method: OECD Test Guideline 401

GLP: yes

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg

Method: OECD Test Guideline 402

GLP: yes

lithium 12-hydroxystearate:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rabbit): > 3.000 mg/kg

Assessment: The substance or mixture has no acute dermal

toxicity

Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Method: OECD Test Guideline 401

GLP: yes

Acute inhalation toxicity : LC50 (Rat): > 5,53 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

GLP: yes

Assessment: The substance or mixture has no acute

inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg

Method: OECD Test Guideline 402

GLP: yes

Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Method: OECD Test Guideline 401

GLP: yes

Acute inhalation toxicity : LC50 (Rat): > 5,53 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Assessment: The substance or mixture has no acute

inhalation toxicity



according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



Klüberlub BE 41-1501

Version Revision Date: Date of last issue: 2022-09-08 Print Date: 2023-

4.4 2023-11-01 Date of first issue: 2015-06-22 11-01

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg

Method: OECD Test Guideline 402

Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg

Method: OECD Test Guideline 402

Skin corrosion/irritation

Product:

Remarks : Irritating to skin.

Components:

1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-

nonanethiol:

Species : Rabbit

Assessment : No skin irritation

Method : OECD Test Guideline 404

Result : No skin irritation

GLP : no

2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol:

Species : Rabbit

Method : OECD Test Guideline 404

Result : Corrosive, category 1C - where responses occur after

exposures between 1 hour and 4 hours and observations up

to 14 days.

GLP : yes

Residual oils (petroleum), solvent-dewaxed; Baseoil — unspecified:

Species : Rabbit

Assessment : No skin irritation

Method : OECD Test Guideline 404

Result : No skin irritation

GLP : yes

lithium 12-hydroxystearate:

Assessment : No skin irritation

Method : OECD Test Guideline 439

Result : No skin irritation

Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified:

according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



Klüberlub BE 41-1501

Version Revision Date: Date of last issue: 2022-09-08 Print Date: 2023-

4.4 2023-11-01 Date of first issue: 2015-06-22 11-01

Species : Rabbit

Assessment : No skin irritation

Method : OECD Test Guideline 404

Result : No skin irritation

Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified:

Species : Rabbit

Assessment : No skin irritation

Method : OECD Test Guideline 404

Result : No skin irritation

GLP : yes

Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified:

Species : Rabbit

Assessment : No skin irritation

Method : OECD Test Guideline 404

Result : No skin irritation

GLP : yes

Serious eye damage/eye irritation

Product:

Remarks : Irritating to eyes.

Components:

1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-

nonanethiol:

Species : Rabbit

Assessment : No eye irritation

Method : OECD Test Guideline 405

Result : No eye irritation

GLP : no

2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol:

Species : Rabbit Assessment : Corrosive

Method : OECD Test Guideline 405

Result : Corrosive

Residual oils (petroleum), solvent-dewaxed; Baseoil — unspecified:

Species : Rabbit

Assessment : No eye irritation

Method : OECD Test Guideline 405

Result : No eye irritation

GLP : yes



according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



Klüberlub BE 41-1501

Version Revision Date: Date of last issue: 2022-09-08 Print Date: 2023-

4.4 2023-11-01 Date of first issue: 2015-06-22 11-01

lithium 12-hydroxystearate:

Species : Rabbit

Assessment : No eye irritation

Method : OECD Test Guideline 405

Result : No eye irritation

Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified:

Species : Rabbit

Assessment : No eye irritation

Method : OECD Test Guideline 405

Result : No eye irritation

GLP : yes

Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified:

Species : Rabbit

Assessment : No eye irritation

Method : OECD Test Guideline 405

Result : No eye irritation

GLP : yes

Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified:

Species : Rabbit

Assessment : No eye irritation

Method : OECD Test Guideline 405

Result : No eye irritation

GLP : yes

Respiratory or skin sensitisation

Product:

Remarks : This information is not available.

Components:

1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-

nonanethiol:

Test Type : Buehler Test Exposure routes : Dermal Species : Guinea pig

Assessment : Does not cause skin sensitisation.

Method : OECD Test Guideline 406

Result : Does not cause skin sensitisation.

GLP : yes

2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol:



according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



Klüberlub BE 41-1501

Version Revision Date: Date of last issue: 2022-09-08 Print Date: 2023-

4.4 2023-11-01 Date of first issue: 2015-06-22 11-01

Species : Guinea pig

Assessment : Does not cause skin sensitisation.

Method : OECD Test Guideline 406

Result : Does not cause skin sensitisation.

Residual oils (petroleum), solvent-dewaxed; Baseoil — unspecified:

Species : Guinea pig

Assessment : Did not cause sensitisation on laboratory animals.

Method : OECD Test Guideline 406

Result : Did not cause sensitisation on laboratory animals.

GLP : yes

lithium 12-hydroxystearate:

Exposure routes : Dermal Species : Mouse

Method : OECD Test Guideline 429

Result : negative

Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified:

Species : Guinea pig

Assessment : Does not cause skin sensitisation.

Method : OECD Test Guideline 406

Result : Does not cause skin sensitisation.

Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified:

Species : Guinea pig

Assessment : Does not cause skin sensitisation.

Method : OECD Test Guideline 406

Result : Does not cause skin sensitisation.

GLP : yes

Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified:

Species : Guinea pig

Assessment : Does not cause skin sensitisation.

Method : OECD Test Guideline 406

Result : Does not cause skin sensitisation.

GLP : yes

Germ cell mutagenicity

Product:

Genotoxicity in vitro : Remarks: No data available



according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



Klüberlub BE 41-1501

Print Date: 2023-Version Revision Date: Date of last issue: 2022-09-08

Date of first issue: 2015-06-22 4.4 2023-11-01 11-01

Remarks: No data available Genotoxicity in vivo

Components:

1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tertnonanethiol:

Germ cell mutagenicity-

Tests on bacterial or mammalian cell cultures did not show

Assessment mutagenic effects.

2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol:

Germ cell mutagenicity-Tests on bacterial or mammalian cell cultures did not show

Assessment mutagenic effects.

Residual oils (petroleum), solvent-dewaxed; Baseoil — unspecified:

Germ cell mutagenicity-Tests on bacterial or mammalian cell cultures did not show

Assessment mutagenic effects.

Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified:

Genotoxicity in vitro Test Type: In vitro mammalian cell gene mutation test

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

Test Type: Micronucleus test Genotoxicity in vivo

Species: Mouse

Cell type: Bone marrow

Application Route: Intraperitoneal injection Method: OECD Test Guideline 474

Result: negative

Germ cell mutagenicity-

Assessment

Tests on bacterial or mammalian cell cultures did not show

mutagenic effects.

Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified:

Genotoxicity in vitro Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Species: Mouse Genotoxicity in vivo

Application Route: Oral

Method: OECD Test Guideline 474

Result: negative

according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



Klüberlub BE 41-1501

Version Revision Date: Date of last issue: 2022-09-08 Print Date: 2023-

4.4 2023-11-01 Date of first issue: 2015-06-22 11-01

Carcinogenicity

Product:

Remarks : No data available

Components:

1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-

nonanethiol:

Carcinogenicity - : No evidence of carcinogenicity in animal studies.

Assessment

Residual oils (petroleum), solvent-dewaxed; Baseoil — unspecified:

Carcinogenicity - : No evidence of carcinogenicity in animal studies.

Assessment

Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified:

Carcinogenicity - : Not classifiable as a human carcinogen.

Assessment

Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified:

Carcinogenicity - : Not classifiable as a human carcinogen.

Assessment

Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified:

Species : Mouse Application Route : Dermal

Method : OECD Test Guideline 451

Result : negative

Reproductive toxicity

Product:

Effects on fertility : Remarks: No data available

Effects on foetal : Remarks: No data available

development

Components:

1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tertnonanethiol:

Reproductive toxicity - : - Fertility -

Assessment No toxicity to reproduction

- Teratogenicity -

according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



Klüberlub BE 41-1501

Version Revision Date: Date of last issue: 2022-09-08 Print Date: 2023-

4.4 2023-11-01 Date of first issue: 2015-06-22 11-01

No effects on or via lactation

2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol:

Reproductive toxicity - : - Fertility -

Assessment Animal testing did not show any

Animal testing did not show any effects on fertility.

- Teratogenicity -

Did not show teratogenic effects in animal experiments.

Residual oils (petroleum), solvent-dewaxed; Baseoil — unspecified:

Reproductive toxicity - : - Fertility -

Assessment No toxicity to reproduction

- Teratogenicity -

No effects on or via lactation

Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified:

Effects on foetal : Species: Rat

development Application Route: Dermal

General Toxicity Maternal: LOAEL: 125 mg/kg body weight Teratogenicity: NOAEL: >= 2.000 mg/kg body weight

Developmental Toxicity: NOAEL: >= 2.000 mg/kg body weight Embryo-foetal toxicity: NOAEL: >= 2.000 mg/kg body weight

Method: OECD Test Guideline 414

Result: No effects on fertility and early embryonic

development were detected.

Reproductive toxicity - : - Fertility -

Assessment No toxicity to reproduction

- Teratogenicity -

No toxicity to reproduction

Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified:

Reproductive toxicity - : - Fertility -

Assessment No toxicity to reproduction

Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified:

Effects on foetal : Species: Rat

development Application Route: Dermal

General Toxicity Maternal: NOAEL: 30 mg/kg body weight Developmental Toxicity: NOAEL: 30 mg/kg body weight

Method: OECD Test Guideline 414

according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



Klüberlub BE 41-1501

Version Revision Date: Date of last issue: 2022-09-08 Print Date: 2023-

4.4 2023-11-01 Date of first issue: 2015-06-22 11-01

STOT - single exposure

Product:

Remarks : No data available

Components:

Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, single exposure.

STOT - repeated exposure

Product:

Remarks : No data available

Components:

2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol:

Exposure routes : Ingestion

Target Organs : Digestive organs, thymus gland

Assessment : May cause damage to organs through prolonged or repeated

exposure.

Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

Repeated dose toxicity

Product:

Remarks : This information is not available.

Components:

2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol:

Species : Rat

100 mg/kg

NOAEL : 20 mg/kg
Application Route : Oral

Aspiration toxicity

Product:

This information is not available.



according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



Klüberlub BE 41-1501

Version Revision Date: Date of last issue: 2022-09-08 Print Date: 2023-

4.4 2023-11-01 Date of first issue: 2015-06-22 11-01

Components:

1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tertnonanethiol:

No aspiration toxicity classification

Residual oils (petroleum), solvent-dewaxed; Baseoil — unspecified:

No aspiration toxicity classification

Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified:

No aspiration toxicity classification

Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified:

No aspiration toxicity classification

Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified:

No aspiration toxicity classification

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components

considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

Further information

Product:

Remarks : Ingestion causes irritation of upper respiratory system and

gastrointestinal disturbance.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : Remarks: Harmful to aquatic organisms, may cause long-term

adverse effects in the aquatic environment.

Remarks: Harmful to aquatic organisms, may cause long-term



according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



Klüberlub BE 41-1501

Version Revision Date: Date of last issue: 2022-09-08 Print Date: 2023-

4.4 2023-11-01 Date of first issue: 2015-06-22 11-01

adverse effects in the aquatic environment.

Toxicity to daphnia and other :

aquatic invertebrates

Remarks: No data available

Toxicity to algae/aquatic

plants

Remarks: No data available

Toxicity to microorganisms

Remarks: No data available

Components:

1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tertnonanethiol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 1.000 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EL50 (Daphnia magna (Water flea)): 41 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (green algae)): 100

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (Pseudomonas putida): 8.000 mg/l

Exposure time: 16 h

Test Type: Growth inhibition Method: DIN 38 412 Part 8

2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 0,3 mg/l

Exposure time: 96 h Test Type: static test

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0,163 mg/l

Exposure time: 48 h
Test Type: Immobilization

Method: OECD Test Guideline 202

GLP: ves

Toxicity to algae/aquatic

plants

ErC50 (Desmodesmus subspicatus (green algae)): 0,03 mg/l

Exposure time: 72 h

Test Type: Growth inhibition Method: OECD Test Guideline 201



according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



Klüberlub BE 41-1501

Version Revision Date: Date of last issue: 2022-09-08 Print Date: 2023-

4.4 2023-11-01 Date of first issue: 2015-06-22 11-01

M-Factor (Acute aquatic

toxicity)

: 10

Toxicity to microorganisms : EC50 (activated sludge): 26 mg/l

Exposure time: 3 h

Test Type: Respiration inhibition Method: OECD Test Guideline 209

M-Factor (Chronic aquatic

toxicity)

: 1

Residual oils (petroleum), solvent-dewaxed; Baseoil — unspecified:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l

Exposure time: 96 h Test Type: static test

Method: OECD Test Guideline 203

GLP: yes

NOEC (Pimephales promelas (fathead minnow)): >= 100 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

GLP: yes

Toxicity to daphnia and other :

aquatic invertebrates

LC50 : > 10.000 mg/l Exposure time: 96 h

Test Type: semi-static test

Method: OECD Test Guideline 202

NOEC: >= 10.000 mg/l Exposure time: 96 h Test Type: semi-static test

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

NOEC (Pseudokirchneriella subcapitata (green algae)): >=

100 mg/l

Exposure time: 72 h
Test Type: static test

Method: OECD Test Guideline 201

lithium 12-hydroxystearate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l

Exposure time: 96 h Test Type: semi-static test

Method: OECD Test Guideline 203

GLP: yes

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h

according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



Klüberlub BE 41-1501

Version Revision Date: Date of last issue: 2022-09-08 Print Date: 2023-

4.4 2023-11-01 Date of first issue: 2015-06-22 11-01

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (green algae)): > 160

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 160

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l

Exposure time: 96 h Test Type: static test

Method: OECD Test Guideline 203

GLP: yes

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 10.000 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

LC50 (Pseudokirchneriella subcapitata (green algae)): > 100

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to fish (Chronic

toxicity)

NOELR: >= 1.000 mg/l Exposure time: 28 d

Species: Oncorhynchus mykiss (rainbow trout)

Remarks: The value is calculated

Toxicity to daphnia and other :

aquatic invertebrates (Chronic toxicity)

NOELR: 10 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test Type: Reproduction Test Method: OECD Test Guideline 211

Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l

Exposure time: 96 h Test Type: static test

Method: OECD Test Guideline 203

GLP: yes

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 10.000 mg/l

Exposure time: 48 h

Test Type: Immobilization

Method: OECD Test Guideline 202

according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



Klüberlub BE 41-1501

Version Revision Date: Date of last issue: 2022-09-08 Print Date: 2023-

4.4 2023-11-01 Date of first issue: 2015-06-22 11-01

GLP: yes

Toxicity to daphnia and other :

aquatic invertebrates

(Chronic toxicity)

NOEC: 10 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test Type: semi-static test

Method: OECD Test Guideline 211

GLP: yes

Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l

Exposure time: 96 h Test Type: static test

Method: OECD Test Guideline 203

GLP: yes

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 10.000 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

NOEC (Pseudokirchneriella subcapitata (green algae)): > 100

mg/l

Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201

Toxicity to daphnia and other :

aquatic invertebrates

NOEC: 10 mg/l Exposure time: 21 d

(Chronic toxicity) Species: Daphnia magna (Water flea)

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: No data available

Physico-chemical

removability

Remarks: No data available

Components:

1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tertnonanethiol:

Biodegradability : Result: Not readily biodegradable.

Biodegradation: 2 % Exposure time: 28 d

Method: OECD Test Guideline 301



according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



Klüberlub BE 41-1501

Version Revision Date: Date of last issue: 2022-09-08 Print Date: 2023-

4.4 2023-11-01 Date of first issue: 2015-06-22 11-01

2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol:

Biodegradability : Test Type: Primary biodegradation

Result: Not rapidly biodegradable Method: OECD Test Guideline 301B

Residual oils (petroleum), solvent-dewaxed; Baseoil — unspecified:

Biodegradability : Test Type: aerobic

Inoculum: activated sludge Result: Not rapidly biodegradable

Biodegradation: 3 % Exposure time: 28 d

Method: OECD Test Guideline 301B

GLP: yes

lithium 12-hydroxystearate:

Biodegradability : Test Type: Primary biodegradation

Inoculum: activated sludge Result: rapidly biodegradable Biodegradation: 74,7 % Exposure time: 28 d

Method: OECD Test Guideline 301C

Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified:

Biodegradability : Test Type: aerobic

Inoculum: activated sludge Result: Not rapidly biodegradable

Biodegradation: 3 % Exposure time: 28 d

Method: OECD Test Guideline 301B

GLP: yes

Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified:

Biodegradability : Test Type: aerobic

Inoculum: activated sludge Result: Not rapidly biodegradable

Biodegradation: 3 % Exposure time: 28 d

Method: OECD Test Guideline 301B

GLP: yes

Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified:

Biodegradability : Test Type: aerobic

Inoculum: activated sludge Result: Not rapidly biodegradable

Biodegradation: 31 % Exposure time: 28 d

Method: OECD Test Guideline 301B

according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



Klüberlub BE 41-1501

Version Revision Date: Date of last issue: 2022-09-08 Print Date: 2023-

4.4 2023-11-01 Date of first issue: 2015-06-22 11-01

GLP: yes

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: This mixture contains no substance considered to

be persistent, bioaccumulating and toxic (PBT).

This mixture contains no substance considered to be very

persistent and very bioaccumulating (vPvB).

Components:

1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tertnonanethiol:

Bioaccumulation : Species: Fish

Bioconcentration factor (BCF): 15,7

Partition coefficient: n- : log Pow: 9,4 (30 °C)

octanol/water pH: 7

Method: OECD Test Guideline 107

2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol:

Bioaccumulation : Bioconcentration factor (BCF): 371,8

Remarks: Does not accumulate in organisms.

Partition coefficient: n-

octanol/water

log Pow: > 6

Residual oils (petroleum), solvent-dewaxed; Baseoil — unspecified:

Bioaccumulation : Remarks: No data available

Partition coefficient: n-

octanol/water

: Pow: > 3,5

lithium 12-hydroxystearate:

Partition coefficient: n-

octanol/water

log Pow: 2,6

Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified:

Partition coefficient: n- :

octanol/water

: log Pow: > 2

12.4 Mobility in soil

Product:

Mobility : Remarks: No data available

a brand of

FREUDENBERG

according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



Klüberlub BE 41-1501

Version Revision Date: Date of last issue: 2022-09-08 Print Date: 2023-

4.4 2023-11-01 Date of first issue: 2015-06-22 11-01

Distribution among : Remarks: No data available

environmental compartments

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

Components:

1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-

nonanethiol:

Assessment : Non-classified PBT substance. Non-classified vPvB substance

Residual oils (petroleum), solvent-dewaxed; Baseoil — unspecified:

Assessment : This substance is not considered to be very persistent and

very bioaccumulating (vPvB).. This substance is not

considered to be persistent, bioaccumulating and toxic (PBT).

Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified:

Assessment : Non-classified PBT substance. Non-classified vPvB substance

Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified:

Assessment : Non-classified vPvB substance. Non-classified PBT substance

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components

considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

12.7 Other adverse effects

Product:

Additional ecological

information

Harmful to aquatic life with long lasting effects.

Harmful to aquatic life with long lasting effects.



according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



Klüberlub BE 41-1501

Version Revision Date: Date of last issue: 2022-09-08 Print Date: 2023-

4.4 2023-11-01 Date of first issue: 2015-06-22 11-01

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water

courses or the soil.

Do not dispose of with domestic refuse.

Dispose of as hazardous waste in compliance with local and

national regulations.

Waste codes should be assigned by the user based on the

application for which the product was used.

Contaminated packaging : Packaging that is not properly emptied must be disposed of as

the unused product.

Dispose of waste product or used containers according to

local regulations.

The following Waste Codes are only suggestions:

Waste Code : used product, unused product

12 01 12*, spent waxes and fats

uncleaned packagings

15 01 10*, packaging containing residues of or contaminated

by hazardous substances

SECTION 14: Transport information

14.1 UN number or ID number

ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA : Not regulated as a dangerous good

14.2 UN proper shipping name

ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA : Not regulated as a dangerous good

14.3 Transport hazard class(es)



according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



Klüberlub BE 41-1501

Version Revision Date: Date of last issue: 2022-09-08 Print Date: 2023-

4.4 2023-11-01 Date of first issue: 2015-06-22 11-01

ADR : Not regulated as a dangerous good

RID : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA : Not regulated as a dangerous good

14.4 Packing group

ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA (Cargo) : Not regulated as a dangerous good
IATA (Passenger) : Not regulated as a dangerous good

14.5 Environmental hazards

ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Remarks : Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances,

mixtures and articles (Annex XVII)

: Not applicable

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

(EU SVHC)

This product does not contain substances of very high concern

(Regulation (EC) No

1907/2006 (REACH), Article 57).

Regulation (EC) No 1005/2009 on substances that

deplete the ozone layer

(EC 1005/2009)

: Not applicable

Regulation (EU) 2019/1021 on persistent organic

pollutants (recast)

(EU POP)

: Not applicable



according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



Klüberlub BE 41-1501

Version Date of last issue: 2022-09-08 Print Date: 2023-Revision Date:

2023-11-01 Date of first issue: 2015-06-22 4.4 11-01

Regulation (EC) No 649/2012 of the European

Parliament and the Council concerning the export and

import of dangerous chemicals

(EU PIC)

Regulation (EU) 2019/1148 on the marketing and use of : Not applicable

explosives precursors

Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous

substances.

Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating

oils and gas oil blending streams),(d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar properties

as regards flammability and environmental hazards as the products referred to in points (a) to

(d)

34

Volatile organic compounds Directive 2010/75/EU of 24 November 2010 on industrial

emissions (integrated pollution prevention and control)

Not applicable

Other regulations:

Hygiene limits (AFS 2018:1), provisions - Occupational Safety and Health Administration's provisions on hygiene limits and general advice on the application of the provisions.

Take note of the Swedish Work Environment Authority regulations on Chemical Hazards in the Working Environment (AFS 2011:19)

15.2 Chemical safety assessment

This information is not available.

SECTION 16: Other information

Full text of H-Statements

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

> a brand of **TREUDENBERG**

according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



Klüberlub BE 41-1501

Version Revision Date: Date of last issue: 2022-09-08 Print Date: 2023-

4.4 2023-11-01 Date of first issue: 2015-06-22 11-01

H373 : May cause damage to organs through prolonged or repeated

exposure if swallowed.

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.

Full text of other abbreviations

Note L : The harmonised classification as a carcinogen applies unless

it can be shown that the substance contains less than 3 % of

dimethyl sulphoxide extract as measured by IP 346

("Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions - Dimethyl sulphoxide extraction refractive index method"Institute of Petroleum, London), in which case a classification in

accordance with Title II of this Regulation shall be performed

also for that hazard class.

SE AFS : Sweden. Occupational Exposure Limit Values

SE AFS / NGV : Time Weighted Average SE AFS / KGV : Short Term Exposure Limit

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx -Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of

according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



Klüberlub BE 41-1501

Version Revision Date: Date of last issue: 2022-09-08 Print Date: 2023-

4.4 2023-11-01 Date of first issue: 2015-06-22 11-01

Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture: Classification procedure:

Skin Irrit. 2 H315 Calculation method
Eye Irrit. 2 H319 Calculation method
Aquatic Chronic 3 H412 Calculation method

This safety data sheet applies only to products as originally packed and labelled. The information contained therein may not be reproduced or modified without our express written permission. Any forwarding of this document is only permitted to the extent required by law. Any further, in particular public, dissemination of the safety data sheet (e.g. as a document for download from the Internet) is not permitted without our express written consent. We provide our customers with amended safety data sheets as prescribed by law. The customer is responsible for passing on safety data sheets and any amendments contained therein to its own customers, employees and other users of the product. We provide no guarantee that safety data sheets received by users from third parties are up-to-date. All information and instructions in this safety data sheet have been compiled to the best of our knowledge and are based on the information available to us on the day of publication. The information provided is intended to describe the product in relation to the required safety measures; it is neither an assurance of characteristics nor a guarantee of the product's suitability for particular applications and does not justify any contractual legal relationship. The existence of a safety data sheet for a particular jurisdiction does not necessarily mean that import or use within that jurisdiction is legally permitted. If you have any questions, please contact your responsible sales contact or authorized trading partner.

