

# SAFETY DATA SHEET

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



## Klübersynth MZ 4-17

Version	Revision Date:	Date of last issue: 26.07.2022	Print Date:
7.1	17.11.2022	Date of first issue: 23.06.2015	17.11.2022

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

### 1.1 Product identifier

Product name : Klübersynth MZ 4-17  
Article-No. : 047122

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

Use of the Sub-  
stance/Mixture : Lubricating oil  
  
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 responsible for the SDS : mcm@klueber.com  
Material Compliance Management

National contact : Klüber Lubrication Deutschland GmbH & Co. KG  
Geisenhausenerstraße 7  
81379 München  
Deutschland  
Tel.: +49 (0) 89 7876 0  
Fax: +49 (0) 89 7876 565  
customer.service.de@klueber.com

### 1.4 Emergency telephone number

Emergency telephone number : +49 89 7876 700 (24 hrs)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

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

# SAFETY DATA SHEET

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

**KLÜBER**  
LUBRICATION

## Klübersynth MZ 4-17

Version	Revision Date:	Date of last issue: 26.07.2022	Print Date:
7.1	17.11.2022	Date of first issue: 23.06.2015	17.11.2022

Aspiration hazard, Category 1

H304: May be fatal if swallowed and enters airways.

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

:



Signal word

:

Danger

Hazard statements

:

H304

May be fatal if swallowed and enters airways.

H319

Causes serious eye irritation.

Precautionary statements

:

#### Prevention:

P264

Wash skin thoroughly after handling.

P280

Wear eye protection/ face protection.

#### Response:

P301 + P310

IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P331

Do NOT induce vomiting.

P337 + P313

If eye irritation persists: Get medical advice/ attention.

#### Storage:

P405

Store locked up.

#### Hazardous components which must be listed on the label:

Dec-1-ene, homopolymer, hydrogenated

Dec-1-ene, dimers, hydrogenated

Distillates (petroleum), hydrotreated light naphthenic; Baseoil — unspecified

#### Additional Labelling

EUH208

Contains Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts; Benzene, mono-C10-14-alkyl derivs., fractionation bottoms, intermediate cut, sulfonated, sodium salts. May produce an allergic reaction.

### 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.

# SAFETY DATA SHEET

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

**KLÜBER**  
LUBRICATION

## Klübersynth MZ 4-17

Version	Revision Date:	Date of last issue: 26.07.2022	Print Date:
7.1	17.11.2022	Date of first issue: 23.06.2015	17.11.2022

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.

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 : Synthetic hydrocarbon oil  
ester oil

#### Components

Chemical name	CAS-No. EC-No.  Index-No. Registration number	Classification	specific concentration limit M-Factor Notes Acute toxicity estimate	Concentration (% w/w)
Dec-1-ene, homopolymer, hydrogenated	68037-01-4 500-183-1  01-2119486452-34-XXXX	Asp. Tox.1; H304		>= 30 - < 50
Dec-1-ene, dimers, hydrogenated	68649-11-6 500-228-5  01-2119493069-28-XXXX	Acute Tox.4; H332 Asp. Tox.1; H304		>= 10 - < 20
Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts	939-603-7  01-2119978241-36-XXXX	Skin Sens.1B; H317	> 10 - 100 % Skin Sens.1B, H317	>= 1 - < 10
Distillates (petroleum), hydrotreated light naphthenic; Baseoil —	64742-53-6 265-156-6	Asp. Tox.1; H304	Note L	>= 1 - < 10

# SAFETY DATA SHEET

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



## Klübersynth MZ 4-17

Version	Revision Date:	Date of last issue: 26.07.2022	Print Date:
7.1	17.11.2022	Date of first issue: 23.06.2015	17.11.2022

unspecified	649-466-00-2 01-2119480375-34-XXXX			
Isotridecanol, ethoxylated	69011-36-5 500-241-6	Acute Tox.4; H302 Eye Dam.1; H318		$\geq 1 - < 3$
Benzene, mono-C10-14-alkyl derivs., fractionation bottoms, intermediate cut, sulfonated, sodium salts	85117-47-1 285-597-8  01-2119985162-35-XXXX	Skin Sens.1B; H317		$\geq 0,1 - < 1$
Substances with a workplace exposure limit :				
distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7 265-157-1  649-467-00-8 01-2119484627-25-XXXX	Not classified	Note L	$\geq 1 - < 10$

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.<br>Keep patient warm and at rest.<br>If unconscious, place in recovery position and seek medical advice.<br>Keep respiratory tract clear.<br>If breathing is irregular or stopped, administer artificial respiration. |
| In case of skin contact | : Take off all contaminated clothing immediately.<br>Wash off immediately with soap and plenty of water.<br>Get medical attention immediately if irritation develops and persists.<br>Wash clothing before reuse.<br>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.<br>Seek medical advice.   |
| If swallowed            | : Move the victim to fresh air.<br>If unconscious, place in recovery position and seek medical   |

# SAFETY DATA SHEET

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



## Klübersynth MZ 4-17

Version	Revision Date:	Date of last issue: 26.07.2022	Print Date:
7.1	17.11.2022	Date of first issue: 23.06.2015	17.11.2022

advice.  
Keep respiratory tract clear.  
Do NOT induce vomiting.  
Obtain medical attention.  
Rinse mouth with water.  
Never give anything by mouth to an unconscious person.  
Aspiration hazard if swallowed - can enter lungs and cause damage.

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

Symptoms : Allergic appearance

Aspiration may cause pulmonary oedema and pneumonitis.

Risks : Risk of product entering the lungs on vomiting after ingestion.  
Health injuries may be delayed.  
May cause an allergic skin reaction.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.  
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 products : Carbon oxides  
Sulphur oxides  
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.

# SAFETY DATA SHEET

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



## Klübersynth MZ 4-17

Version	Revision Date:	Date of last issue: 26.07.2022	Print Date:
7.1	17.11.2022	Date of first issue: 23.06.2015	17.11.2022

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Evacuate personnel to safe areas.  
Use personal protective equipment.  
Ensure adequate ventilation.  
Do not breathe vapours or spray mist.  
Refer to protective measures listed in sections 7 and 8.

#### 6.2 Environmental precautions

Environmental precautions : Try to prevent the material from entering drains or water courses.  
Prevent further leakage or spillage if safe to do so.  
Local authorities should be advised if significant spillages cannot be contained.

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

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

#### 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 : Do not breathe vapours or spray mist.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.  
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.  
Do not re-use empty containers.  
These safety instructions also apply to empty packaging which may still contain product residues.  
Keep container closed when not in use.

# SAFETY DATA SHEET

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



## Klübersynth MZ 4-17

Version	Revision Date:	Date of last issue: 26.07.2022	Print Date:
7.1	17.11.2022	Date of first issue: 23.06.2015	17.11.2022

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

### 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.

Storage class (TRGS 510) : 10, Combustible liquids

### 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
Dec-1-ene, dimers, hydrogenated	68649-11-6	AGW (Alveolate fraction)	5 mg/m <sup>3</sup>	DE TRGS 900 (2012-01-12)
Peak-limit: excursion factor (category): 4;(II)				
Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child				
Distillates (petroleum), hydrotreated light naphthenic; Baseoil — unspecified	64742-53-6	AGW (Vapour and aerosols)	5 mg/m <sup>3</sup>	DE TRGS 900 (2018-06-07)
Peak-limit: excursion factor (category): 4;(II)				
Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child				
distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	AGW (Vapour and aerosols)	5 mg/m <sup>3</sup>	DE TRGS 900 (2018-06-07)
Peak-limit: excursion factor (category): 4;(II)				
Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child				

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

Substance name	End Use	Exposure routes	Potential health effects	Value
diisononyl adipate	Workers	Inhalation	Long-term systemic effects	26,5 mg/m <sup>3</sup>

# SAFETY DATA SHEET

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

**KLÜBER**  
LUBRICATION

## Klübersynth MZ 4-17

Version  
7.1

Revision Date:  
17.11.2022

Date of last issue: 26.07.2022  
Date of first issue: 23.06.2015

Print Date:  
17.11.2022

	Workers	Skin contact	Long-term systemic effects	34 mg/kg
Dec-1-ene, dimers, hydrogenated	Industrial use	Inhalation	Acute systemic effects	60 mg/m3
Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts	Workers	Inhalation	Long-term systemic effects	35,26 mg/m3
	Workers	Dermal	Long-term systemic effects	25 mg/kg
Distillates (petroleum), hydrotreated light naphthenic; Baseoil — unspecified	Workers	Inhalation	Long-term systemic effects	2,7 mg/m3
	Workers	Inhalation	Long-term local effects	5,6 mg/m3
	Workers	Skin contact	Long-term systemic effects	1 mg/kg bw/day
distillates (petroleum), hydrotreated heavy paraffinic	Workers	Inhalation	Long-term local effects	5,6 mg/m3
	Workers	Inhalation	Long-term systemic effects	2,73 mg/m3
	Workers	Skin contact	Long-term systemic effects	0,97 mg/kg
Benzene, mono-C10-14-alkyl derivs., fractionation bottoms, intermediate cut, sulfonated, sodium salts	Workers	Inhalation	Long-term systemic effects	0,66 mg/m3
	Workers	Inhalation	Long-term local effects	
	Remarks: This information is not available.			
	Workers	Inhalation	Acute systemic effects	
	Remarks: This information is not available.			
	Workers	Inhalation	Acute local effects	
	Remarks: This information is not available.			
	Workers	Dermal	Long-term systemic effects	3,33 mg/m3
	Workers	Dermal	Long-term local effects	
	Remarks: This information is not available.			
	Workers	Dermal	Acute systemic effects	
	Remarks: This information is not available.			
	Workers	Dermal	Acute local effects	
	Remarks: This information is not available.			

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

Substance name	Environmental Compartment	Value
diisononyl adipate	Microbiological Activity in Sewage Treatment Systems	100 mg/l



# SAFETY DATA SHEET

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

**KLÜBER**  
LUBRICATION

## Klübersynth MZ 4-17

Version	Revision Date:	Date of last issue: 26.07.2022	Print Date:
7.1	17.11.2022	Date of first issue: 23.06.2015	17.11.2022

	Soil	0,865 mg/kg
Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts	Fresh water	0,1 mg/l
	Marine water	0,1 mg/l
	Fresh water sediment	45211 mg/kg
	Marine sediment	45211 mg/kg
	Microbiological Activity in Sewage Treatment Systems	1000 mg/l
	Soil	36739 mg/kg
Distillates (petroleum), hydrotreated light naphthenic; Baseoil — unspecified	Oral	9,33 mg/kg
distillates (petroleum), hydrotreated heavy paraffinic	Oral	9,33 mg/kg
Benzene, mono-C10-14-alkyl derivs., fractionation bottoms, intermediate cut, sulfonated, sodium salts	Fresh water	1 mg/l
	Intermittent use/release	10 mg/l
	Marine water	1 mg/l
	Microbiological Activity in Sewage Treatment Systems	100 mg/l
	Oral	16,667 mg/l

## 8.2 Exposure controls

### Engineering measures

none

### Personal protective equipment

Eye protection : Safety glasses with side-shields

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.

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

Filter type : Filter type A-P

# SAFETY DATA SHEET

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



## Klübersynth MZ 4-17

Version	Revision Date:	Date of last issue: 26.07.2022	Print Date:
7.1	17.11.2022	Date of first issue: 23.06.2015	17.11.2022

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	: liquid
Colour	: brown
Odour	: characteristic
Odour Threshold	: No data available
Melting point/range	: No data available
Boiling point/boiling range	: No data available
Flammability (solid, gas)	: Not applicable
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Flash point	: $\geq 160\text{ °C}$ Method: ISO 2592, open cup
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	: 20 mm <sup>2</sup> /s (40 °C)
Solubility(ies)	
Water solubility	: insoluble
Solubility in other solvents	: No data available

# SAFETY DATA SHEET

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

**KLÜBER**  
LUBRICATION

## Klübersynth MZ 4-17

Version	Revision Date:	Date of last issue: 26.07.2022	Print Date:
7.1	17.11.2022	Date of first issue: 23.06.2015	17.11.2022

Partition coefficient: n-octanol/water	:	No data available
Vapour pressure	:	< 0,001 hPa (20 °C)
Relative density	:	0,86 (20 °C) Reference substance: Water The value is calculated
Density	:	0,86 g/cm <sup>3</sup> (20 °C)
Bulk density	:	No data available
Relative vapour density	:	No data available

### 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

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.
--------------------	---	--

# SAFETY DATA SHEET

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

**KLÜBER**  
LUBRICATION

## Klübersynth MZ 4-17

Version	Revision Date:	Date of last issue: 26.07.2022	Print Date:
7.1	17.11.2022	Date of first issue: 23.06.2015	17.11.2022

### 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	:	Acute toxicity estimate: > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Acute dermal toxicity	:	Symptoms: Redness, Local irritation

##### Components:

#### **Dec-1-ene, homopolymer, hydrogenated:**

Acute oral toxicity	:	LD50 (Rat): > 5.000 mg/kg Method: OECD Test Guideline 423 GLP: yes
Acute inhalation toxicity	:	LC50 (Rat): > 5,2 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 (Rat): > 2.000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity

#### **Dec-1-ene, dimers, hydrogenated:**

Acute oral toxicity	:	LD50 (Rat): > 5.000 mg/kg Method: OECD Test Guideline 401 GLP: yes
Acute inhalation toxicity	:	LC50 (Rat): 1,17 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 GLP: yes

# SAFETY DATA SHEET

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

**KLÜBER**  
LUBRICATION

## Klübersynth MZ 4-17

Version	Revision Date:	Date of last issue: 26.07.2022	Print Date:
7.1	17.11.2022	Date of first issue: 23.06.2015	17.11.2022

Acute dermal toxicity : LD50 (Rabbit): > 3.000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

### **Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts:**

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

Acute inhalation toxicity : LC50 (Rat): > 1,9 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

### **Distillates (petroleum), hydrotreated light naphthenic; 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  
Assessment: The substance or mixture has no acute dermal toxicity

### **Isotridecanol, ethoxylated:**

Acute oral toxicity : LD50 (Rat): > 300 - < 2.000 mg/kg

### **Benzene, mono-C10-14-alkyl derivs., fractionation bottoms, intermediate cut, sulfonated, sodium salts:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 423

Acute inhalation toxicity : LC50 (Rat): > 1,9 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

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

# SAFETY DATA SHEET

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

**KLÜBER**  
LUBRICATION

## Klübersynth MZ 4-17

Version	Revision Date:	Date of last issue: 26.07.2022	Print Date:
7.1	17.11.2022	Date of first issue: 23.06.2015	17.11.2022

### distillates (petroleum), hydrotreated heavy paraffinic:

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
Acute dermal toxicity	:	LD50 (Rabbit): > 5.000 mg/kg Method: OECD Test Guideline 402

### Skin corrosion/irritation

#### Product:

Remarks : This information is not available.

#### Components:

##### Dec-1-ene, homopolymer, hydrogenated:

Species	:	Rabbit
Assessment	:	No skin irritation
Method	:	OECD Test Guideline 404
Result	:	No skin irritation
GLP	:	yes

##### Dec-1-ene, dimers, hydrogenated:

Species	:	Rabbit
Assessment	:	No skin irritation
Method	:	OECD Test Guideline 404
Result	:	No skin irritation

##### Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts:

Assessment	:	No skin irritation
Method	:	OECD Test Guideline 404
Result	:	No skin irritation

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

Species	:	Rabbit
Assessment	:	No skin irritation
Result	:	No skin irritation
GLP	:	yes

##### Isotridecanol, ethoxylated:

Assessment	:	No skin irritation
Result	:	No skin irritation

# SAFETY DATA SHEET

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

**KLÜBER**  
LUBRICATION

## Klübersynth MZ 4-17

Version	Revision Date:	Date of last issue: 26.07.2022	Print Date:
7.1	17.11.2022	Date of first issue: 23.06.2015	17.11.2022

### **Benzene, mono-C10-14-alkyl derivs., fractionation bottoms, intermediate cut, sulfonated, sodium salts:**

Species	:	Rabbit
Assessment	:	No skin irritation
Result	:	No skin irritation

### **distillates (petroleum), hydrotreated heavy paraffinic:**

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:**

##### **Dec-1-ene, homopolymer, hydrogenated:**

Species	:	Rabbit
Assessment	:	No eye irritation
Method	:	OECD Test Guideline 405
Result	:	No eye irritation
GLP	:	yes

##### **Dec-1-ene, dimers, hydrogenated:**

Species	:	Rabbit
Assessment	:	No eye irritation
Method	:	OECD Test Guideline 405
Result	:	No eye irritation

##### **Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts:**

Assessment	:	No eye irritation
Method	:	OECD Test Guideline 405
Result	:	No skin irritation

##### **Distillates (petroleum), hydrotreated light naphthenic; Baseoil — unspecified:**

Species	:	Rabbit
Assessment	:	No eye irritation
Method	:	OECD Test Guideline 405
Result	:	No eye irritation
GLP	:	yes

##### **Isotridecanol, ethoxylated:**

# SAFETY DATA SHEET

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

**KLÜBER**  
LUBRICATION

## Klübersynth MZ 4-17

Version	Revision Date:	Date of last issue: 26.07.2022	Print Date:
7.1	17.11.2022	Date of first issue: 23.06.2015	17.11.2022

Assessment : Risk of serious damage to eyes.  
Result : Risk of serious damage to eyes.

### **Benzene, mono-C10-14-alkyl derivs., fractionation bottoms, intermediate cut, sulfonated, sodium salts:**

Species : Rabbit  
Assessment : No eye irritation  
Method : OECD Test Guideline 405  
Result : No eye irritation

### **distillates (petroleum), hydrotreated heavy paraffinic:**

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:**

##### **Dec-1-ene, homopolymer, hydrogenated:**

Test Type : Maximisation Test  
Species : Guinea pig  
Assessment : Does not cause skin sensitisation.  
Method : OECD Test Guideline 406  
Result : Does not cause skin sensitisation.  
GLP : yes

##### **Dec-1-ene, dimers, hydrogenated:**

Test Type : Maximisation Test  
Species : Guinea pig  
Assessment : Does not cause skin sensitisation.  
Method : OECD Test Guideline 406  
Result : Does not cause skin sensitisation.  
GLP : yes

##### **Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts:**

Assessment : Probability or evidence of low to moderate skin sensitisation rate in humans  
Result : Probability or evidence of low to moderate skin sensitisation rate in humans



# SAFETY DATA SHEET

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

**KLÜBER**  
LUBRICATION

## Klübersynth MZ 4-17

Version	Revision Date:	Date of last issue: 26.07.2022	Print Date:
7.1	17.11.2022	Date of first issue: 23.06.2015	17.11.2022

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

Test Type	:	Buehler Test
Species	:	Guinea pig
Assessment	:	Does not cause skin sensitisation.
Method	:	OECD Test Guideline 406
Result	:	Does not cause skin sensitisation.
GLP	:	yes

### Isotridecanol, ethoxylated:

Assessment	:	Does not cause skin sensitisation.
Result	:	Does not cause skin sensitisation.

### Benzene, mono-C10-14-alkyl derivs., fractionation bottoms, intermediate cut, sulfonated, sodium salts:

Test Type	:	Buehler Test
Exposure routes	:	Dermal
Species	:	Guinea pig
Assessment	:	The product is a skin sensitiser, sub-category 1B.
Method	:	Buehler Test
Result	:	The product is a skin sensitiser, sub-category 1B.

### distillates (petroleum), hydrotreated heavy paraffinic:

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
Genotoxicity in vivo	:	Remarks: No data available

#### Components:

#### **Dec-1-ene, homopolymer, hydrogenated:**

Genotoxicity in vitro	:	Test Type: Ames test Method: Mutagenicity (Escherichia coli - reverse mutation assay) Result: negative GLP: yes
-----------------------	---	--

Germ cell mutagenicity- Assessment	:	Animal testing did not show any mutagenic effects.
------------------------------------	---	--

# SAFETY DATA SHEET

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



## Klübersynth MZ 4-17

Version	Revision Date:	Date of last issue: 26.07.2022	Print Date:
7.1	17.11.2022	Date of first issue: 23.06.2015	17.11.2022

### **Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts:**

Genotoxicity in vitro : Test Type: Microbial mutagenesis assay (Ames test)  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

### **Distillates (petroleum), hydrotreated light naphthenic; Baseoil — unspecified:**

Germ cell mutagenicity- Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

### **Benzene, mono-C10-14-alkyl derivs., fractionation bottoms, intermediate cut, sulfonated, sodium salts:**

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro  
Test system: Human lymphocytes  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Species: Mouse  
Cell type: Bone marrow  
Method: OECD Test Guideline 474  
Result: negative

### **Carcinogenicity**

#### **Product:**

Remarks : No data available

#### **Components:**

### **Dec-1-ene, homopolymer, hydrogenated:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

### **Distillates (petroleum), hydrotreated light naphthenic; Baseoil — unspecified:**

Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

### **distillates (petroleum), hydrotreated heavy paraffinic:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

### **Reproductive toxicity**

#### **Product:**

Effects on fertility : Remarks: No data available

# SAFETY DATA SHEET

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

**KLÜBER**  
LUBRICATION

## Klübersynth MZ 4-17

Version	Revision Date:	Date of last issue: 26.07.2022	Print Date:
7.1	17.11.2022	Date of first issue: 23.06.2015	17.11.2022

Effects on foetal development : Remarks: No data available

### Components:

#### **Dec-1-ene, homopolymer, hydrogenated:**

Reproductive toxicity - Assessment : - Fertility -  
No toxicity to reproduction  
- Teratogenicity -  
Did not show teratogenic effects in animal experiments.

#### **Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts:**

Reproductive toxicity - Assessment : - Fertility -  
No toxicity to reproduction  
- Teratogenicity -  
No toxicity to reproduction

#### **Distillates (petroleum), hydrotreated light naphthenic; Baseoil — unspecified:**

Reproductive toxicity - Assessment : - Fertility -  
No toxicity to reproduction  
- Teratogenicity -  
No effects on or via lactation

#### **Isotridecanol, ethoxylated:**

Reproductive toxicity - Assessment : - Fertility -  
No toxicity to reproduction

#### **Benzene, mono-C10-14-alkyl derivs., fractionation bottoms, intermediate cut, sulfonated, sodium salts:**

Effects on fertility : Test Type: Fertility/early embryonic development  
Species: Rat  
Application Route: Oral  
General Toxicity - Parent: NOAEL: 500  
General Toxicity F1: NOAEL: 500  
Method: OECD Test Guideline 415

#### **distillates (petroleum), hydrotreated heavy paraffinic:**

Reproductive toxicity - Assessment : - Fertility -  
No toxicity to reproduction

# SAFETY DATA SHEET

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

**KLÜBER**  
LUBRICATION

## Klübersynth MZ 4-17

Version	Revision Date:	Date of last issue: 26.07.2022	Print Date:
7.1	17.11.2022	Date of first issue: 23.06.2015	17.11.2022

### STOT - single exposure

#### Components:

##### **Distillates (petroleum), hydrotreated light naphthenic; Baseoil — unspecified:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

##### **Isotridecanol, ethoxylated:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

### STOT - repeated exposure

#### Components:

##### **Distillates (petroleum), hydrotreated light naphthenic; Baseoil — unspecified:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

##### **Isotridecanol, ethoxylated:**

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:

##### **Benzene, mono-C10-14-alkyl derivs., fractionation bottoms, intermediate cut, sulfonated, sodium salts:**

Species : Rat  
NOAEL : 500 mg/kg  
Application Route : Oral  
Exposure time : 29  
Method : OECD Test Guideline 407

Species : Rat  
NOAEL : 0,0495 mg/l  
Application Route : Inhalation  
Exposure time : 28  
Method : OECD Test Guideline 412

### Aspiration toxicity

#### Product:

May be fatal if swallowed and enters airways.

# SAFETY DATA SHEET

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



## Klübersynth MZ 4-17

Version	Revision Date:	Date of last issue: 26.07.2022	Print Date:
7.1	17.11.2022	Date of first issue: 23.06.2015	17.11.2022

### Components:

#### **Dec-1-ene, homopolymer, hydrogenated:**

May be fatal if swallowed and enters airways.

#### **Dec-1-ene, dimers, hydrogenated:**

May be fatal if swallowed and enters airways.

#### **Distillates (petroleum), hydrotreated light naphthenic; Baseoil — unspecified:**

May be fatal if swallowed and enters airways.

#### **Isotridecanol, ethoxylated:**

No aspiration toxicity classification

#### **distillates (petroleum), hydrotreated heavy paraffinic:**

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 : Information given is based on data on the components and the toxicology of similar products.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

Toxicity to algae/aquatic plants : Remarks: No data available

# SAFETY DATA SHEET

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

**KLÜBER**  
LUBRICATION

## Klübersynth MZ 4-17

Version	Revision Date:	Date of last issue: 26.07.2022	Print Date:
7.1	17.11.2022	Date of first issue: 23.06.2015	17.11.2022

Toxicity to microorganisms :  
Remarks: No data available

### Components:

#### **Dec-1-ene, homopolymer, hydrogenated:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 1.000 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203  
GLP: yes

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 1.000 mg/l  
aquatic invertebrates  
Exposure time: 48 h  
Test Type: Immobilization  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae/aquatic : ErC50 (Scenedesmus capricornutum (fresh water algae)): >  
plants  
1.000 mg/l  
Exposure time: 72 h  
Test Type: Growth inhibition  
Method: OECD Test Guideline 201  
GLP: yes

Toxicity to daphnia and other : NOEC: 125 mg/l  
aquatic invertebrates (Chronic toxicity)  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)

#### **Dec-1-ene, dimers, hydrogenated:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 1.000 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203  
GLP: yes

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 1.000 mg/l  
aquatic invertebrates  
Exposure time: 48 h  
Test Type: Immobilization  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae/aquatic : EC50 (Scenedesmus capricornutum (fresh water algae)): >  
plants  
1.000 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes

Toxicity to daphnia and other : NOEC: 125 mg/l  
aquatic invertebrates (Chronic toxicity)  
Exposure time: 21 d

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



## Klübersynth MZ 4-17

Version	Revision Date:	Date of last issue: 26.07.2022	Print Date:
7.1	17.11.2022	Date of first issue: 23.06.2015	17.11.2022

Species: *Daphnia magna* (Water flea)  
Method: OECD Test Guideline 211  
GLP: yes

**Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : NOELR (Desmodesmus subspicatus (green algae)): 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

EL50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (activated sludge): > 10.000 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

**Isotridecanol, ethoxylated:**

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): > 1 - 10 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l  
Exposure time: 48 h

## Ecotoxicology Assessment

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

**Benzene, mono-C10-14-alkyl derivs., fractionation bottoms, intermediate cut, sulfonated, sodium salts:**

Toxicity to fish : LC50 (Cyprinodon variegatus (sheepshead minnow)): > 10.000 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 1.000 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EL50 (*Pseudokirchneriella subcapitata* (green algae)): > 1.000 mg/l  
Exposure time: 72 h

# SAFETY DATA SHEET

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

**KLÜBER**  
LUBRICATION

## Klübersynth MZ 4-17

Version	Revision Date:	Date of last issue: 26.07.2022	Print Date:
7.1	17.11.2022	Date of first issue: 23.06.2015	17.11.2022

### Ecotoxicology Assessment

Chronic aquatic toxicity : No toxicity at the limit of solubility, This product has no known ecotoxicological effects.

### distillates (petroleum), hydrotreated heavy paraffinic:

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  
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

## 12.2 Persistence and degradability

### Product:

Biodegradability : Remarks: No data available

Physico-chemical removability : Remarks: No data available

### Components:

#### **Dec-1-ene, homopolymer, hydrogenated:**

Biodegradability : Test Type: Primary biodegradation  
Inoculum: activated sludge  
Result: Not readily biodegradable.  
Method: OECD Test Guideline 301B

#### **Dec-1-ene, dimers, hydrogenated:**

Biodegradability : Result: Not rapidly biodegradable

#### **Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts:**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 8 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D



# SAFETY DATA SHEET

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

**KLÜBER**  
LUBRICATION

## Klübersynth MZ 4-17

Version	Revision Date:	Date of last issue: 26.07.2022	Print Date:
7.1	17.11.2022	Date of first issue: 23.06.2015	17.11.2022

### Isotridecanol, ethoxylated:

Biodegradability : Test Type: Primary biodegradation  
Result: rapidly biodegradable

### Benzene, mono-C10-14-alkyl derivs., fractionation bottoms, intermediate cut, sulfonated, sodium salts:

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 1 %  
Exposure time: 28 d

### distillates (petroleum), hydrotreated heavy paraffinic:

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge  
Result: Not rapidly biodegradable  
Biodegradation: 3 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B  
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:

#### Dec-1-ene, homopolymer, hydrogenated:

Partition coefficient: n-octanol/water : log Pow: > 6,5 (20 °C)

#### Dec-1-ene, dimers, hydrogenated:

Partition coefficient: n-octanol/water : log Pow: > 6,5

#### Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts:

Bioaccumulation : Bioconcentration factor (BCF): 70,8

Partition coefficient: n-octanol/water : log Pow: 26,22 (20 °C)

#### Isotridecanol, ethoxylated:

Partition coefficient: n-octanol/water : log Pow: 4,9

# SAFETY DATA SHEET

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

**KLÜBER**  
LUBRICATION

## Klübersynth MZ 4-17

Version	Revision Date:	Date of last issue: 26.07.2022	Print Date:
7.1	17.11.2022	Date of first issue: 23.06.2015	17.11.2022

### **Benzene, mono-C10-14-alkyl derivs., fractionation bottoms, intermediate cut, sulfonated, sodium salts:**

Partition coefficient: n-octanol/water : log Pow: 23,62 (25 °C)

### **distillates (petroleum), hydrotreated heavy paraffinic:**

Partition coefficient: n-octanol/water : log Pow: > 2

## 12.4 Mobility in soil

### **Product:**

Mobility : Remarks: No data available

Distribution among environmental compartments : Remarks: No data available

## 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:**

#### **Dec-1-ene, homopolymer, hydrogenated:**

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

#### **Dec-1-ene, dimers, hydrogenated:**

Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).. This substance is not considered to be very persistent and very bioaccumulating (vPvB).

#### **Distillates (petroleum), hydrotreated light naphthenic; Baseoil — unspecified:**

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

#### **Isotridecanol, ethoxylated:**

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

#### **distillates (petroleum), hydrotreated heavy paraffinic:**

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

## 12.6 Endocrine disrupting properties

### **Product:**

# SAFETY DATA SHEET

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



## Klübersynth MZ 4-17

Version	Revision Date:	Date of last issue: 26.07.2022	Print Date:
7.1	17.11.2022	Date of first issue: 23.06.2015	17.11.2022

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 : No information on ecology is available.

## 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 : unused product  
13 02 06\*, synthetic engine, gear and lubricating oils  
  
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

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

# SAFETY DATA SHEET

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

**KLÜBER**  
LUBRICATION

## Klübersynth MZ 4-17

Version	Revision Date:	Date of last issue: 26.07.2022	Print Date:
7.1	17.11.2022	Date of first issue: 23.06.2015	17.11.2022

IATA : Not regulated as a dangerous good

### 14.2 UN proper shipping name

ADN : Not regulated as a dangerous good

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)

ADN : Not regulated as a dangerous good

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

ADN : Not regulated as a dangerous good

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

ADN : Not regulated as a dangerous good

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, : Conditions of restriction for the following entries should be considered:

# SAFETY DATA SHEET

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

**KLÜBER**  
LUBRICATION

## Klübersynth MZ 4-17

Version	Revision Date:	Date of last issue: 26.07.2022	Print Date:
7.1	17.11.2022	Date of first issue: 23.06.2015	17.11.2022

mixtures and articles (Annex XVII)		Number on list 3
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).
REACH - List of substances subject to authorisation (Annex XIV) (EU. REACH-Annex XIV)	:	Not applicable
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
Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals (EU PIC)	:	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.	:	Not applicable
Water hazard class (Germany)	:	WGK 1 slightly hazardous to water Classification according to AwSV, Annex 1 (5.2)
TA Luft List (Germany)	:	Total dust: others: 10,16 %  Inorganic substances in powdered form: Not applicable Inorganic substances in vapour or gaseous form: Not applicable Organic Substances: portion Class 1: < 0,01 % others: 89,84 %  Carcinogenic substances: Not applicable Mutagenic: Not applicable Toxic to reproduction: Not applicable
Volatile organic compounds	:	Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 13,96 %

# SAFETY DATA SHEET

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



## Klübersynth MZ 4-17

Version	Revision Date:	Date of last issue: 26.07.2022	Print Date:
7.1	17.11.2022	Date of first issue: 23.06.2015	17.11.2022

### 15.2 Chemical safety assessment

This information is not available.

## SECTION 16: Other information

### Full text of H-Statements

H302	:	Harmful if swallowed.
H304	:	May be fatal if swallowed and enters airways.
H317	:	May cause an allergic skin reaction.
H318	:	Causes serious eye damage.
H332	:	Harmful if inhaled.

### 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.
DE TRGS 900	:	Germany. TRGS 900 - Occupational exposure limit values.
DE TRGS 900 / AGW	:	Time Weighted Average

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;

# SAFETY DATA SHEET

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



## Klübersynth MZ 4-17

Version	Revision Date:	Date of last issue: 26.07.2022	Print Date:
7.1	17.11.2022	Date of first issue: 23.06.2015	17.11.2022

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 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; TECl - 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:

Eye Irrit. 2	H319
Asp. Tox. 1	H304

#### Classification procedure:

Calculation method  
Based on product data or assessment

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.