

# SAFETY DATA SHEET

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

**KLÜBER**  
LUBRICATION

## STRUCTOVIS BHD Spray

Version	Revision Date:	Date of last issue: 30.07.2024	Print Date:
6.0	12.03.2025	Date of first issue: 17.08.2017	12.03.2025

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

### 1.1 Product identifier

Product name : STRUCTOVIS BHD Spray  
Article-No. : 120108

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

Use of the Substance/Mixture : Lubricant spray  
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

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)

Aerosols, Category 1

H222: Extremely flammable aerosol.

# SAFETY DATA SHEET

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

**KLÜBER**  
LUBRICATION

## STRUCTOVIS BHD Spray

Version	Revision Date:	Date of last issue: 30.07.2024	Print Date:
6.0	12.03.2025	Date of first issue: 17.08.2017	12.03.2025

	H229: Pressurised container: May burst if heated.
Skin irritation, Category 2	H315: Causes skin irritation.
Aspiration hazard, Category 1	H304: May be fatal if swallowed and enters airways.
Long-term (chronic) aquatic hazard, Category 2	H411: Toxic to aquatic life with long lasting effects.

### 2.2 Label elements

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

Hazard pictograms :    

Signal word : Danger

Hazard statements : H222 Extremely flammable aerosol.  
H229 Pressurised container: May burst if heated.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.  
P273 Avoid release to the environment.  
**Response:**  
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
P331 Do NOT induce vomiting.  
**Storage:**  
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

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

Hydrocarbons, C7-C9, isoalkanes

# SAFETY DATA SHEET

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



## STRUCTOVIS BHD Spray

Version	Revision Date:	Date of last issue: 30.07.2024	Print Date:
6.0	12.03.2025	Date of first issue: 17.08.2017	12.03.2025

### 2.3 Other hazards

This substance/mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

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 : Propellant  
Mineral oil.  
solvent (hydrocarbons)  
Synthetic hydrocarbon 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)
Hydrocarbons, C7-C9, isoalkanes	921-728-3  01-2119471305-42- XXXX	Flam. Liq.2; H225 Skin Irrit.2; H315 STOT SE3; H336 Asp. Tox.1; H304 Aquatic Chronic2; H411	Note P	>= 10 - < 20
O,O,O-triphenyl phosphorothioate	597-82-0 209-909-9  01-2119979545-21- XXXX	Aquatic Chronic1; H410	M-Factor: /10	>= 0,25 - < 1
Substances with a workplace exposure limit :				
Residual oils (petroleum), hydrotreated; Baseoil — unspecified	64742-57-0 265-160-8  649-470-00-4	Not classified	Note L	>= 30 - < 50

# SAFETY DATA SHEET

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

**KLÜBER**  
LUBRICATION

## STRUCTOVIS BHD Spray

Version 6.0      Revision Date: 12.03.2025      Date of last issue: 30.07.2024      Print Date: 12.03.2025  
Date of first issue: 17.08.2017

	01-2119489287-22-XXXX			
isobutane	75-28-5 200-857-2  601-004-00-0 01-2119485395-27-XXXX	Flam. Gas1A; H220 Press. GasCompr. Gas; H280	Note U (table 3.1), Note C	$\geq 30 - < 50$
propane	74-98-6 200-827-9  601-003-00-5 01-2119486944-21-XXXX	Flam. Gas1A; H220 Press. GasCompr. Gas; H280	Note U (table 3.1)	$\geq 1 - < 10$
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	$\geq 1 - < 10$
butane	106-97-8 203-448-7  601-004-00-0 01-2119474691-32-XXXX	Flam. Gas1; H220 Press. GasCompr. Gas; H280	Note U (table 3.1), Note C	$\geq 1 - < 10$

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.  
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

# SAFETY DATA SHEET

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

**KLÜBER**  
LUBRICATION

## STRUCTOVIS BHD Spray

Version	Revision Date:	Date of last issue: 30.07.2024	Print Date:
6.0	12.03.2025	Date of first issue: 17.08.2017	12.03.2025

- persists.  
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.  
If eye irritation persists, consult a specialist.
- If swallowed : Move the victim to fresh air.  
Keep respiratory tract clear.  
Do NOT induce vomiting.  
Obtain medical attention.  
Rinse mouth with water.  
Aspiration hazard if swallowed - can enter lungs and cause damage.

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

- Symptoms : Inhalation may provoke the following symptoms:  
Unconsciousness  
Dizziness  
Drowsiness  
Headache  
Nausea  
Tiredness  
Skin contact may provoke the following symptoms:  
Erythema
- Aspiration may cause pulmonary oedema and pneumonitis.
- Risks : Risk of product entering the lungs on vomiting after ingestion.  
Health injuries may be delayed.  
Causes skin irritation.

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

- Treatment : Treat symptomatically.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : ABC powder
- Unsuitable extinguishing media : High volume water jet

### 5.2 Special hazards arising from the substance or mixture

- Specific hazards during : Fire Hazard

# SAFETY DATA SHEET

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

**KLÜBER**  
LUBRICATION

## STRUCTOVIS BHD Spray

Version	Revision Date:	Date of last issue: 30.07.2024	Print Date:
6.0	12.03.2025	Date of first issue: 17.08.2017	12.03.2025

firefighting : Do not let product enter drains.  
Contains gas under pressure; may explode if heated.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Hazardous combustion products : Carbon oxides  
Nitrogen oxides (NOx)

### 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.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Cool containers/tanks with water spray.

## SECTION 6: Accidental release measures

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

Personal precautions : Evacuate personnel to safe areas.  
Ensure adequate ventilation.  
Remove all sources of ignition.  
Do not breathe vapours or spray mist.  
Refer to protective measures listed in sections 7 and 8.  
Only qualified personnel equipped with suitable protective equipment may intervene.

### 6.2 Environmental precautions

Environmental precautions : Do not allow contact with soil, surface or ground water.  
Prevent further leakage or spillage if safe to do so.  
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 : 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).  
Keep in suitable, closed containers for disposal.  
Non-sparking tools should be used.

### 6.4 Reference to other sections

For personal protection see section 8.

# SAFETY DATA SHEET

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



## STRUCTOVIS BHD Spray

Version 6.0	Revision Date: 12.03.2025	Date of last issue: 30.07.2024 Date of first issue: 17.08.2017	Print Date: 12.03.2025
----------------	------------------------------	---	---------------------------

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Advice on safe handling : Do not use in areas without adequate ventilation.  
Do not breathe vapours or spray mist.  
In case of insufficient ventilation, wear suitable respiratory equipment.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Keep away from fire, sparks and heated surfaces.  
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 use sparking tools.  
These safety instructions also apply to empty packaging which may still contain product residues.  
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.
- 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 : BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects. Store in accordance with the particular national regulations.
- Storage class (TRGS 510) : 2B, Aerosol cans and lighters

### 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

# SAFETY DATA SHEET

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

**KLÜBER**  
LUBRICATION

## STRUCTOVIS BHD Spray

Version  
6.0

Revision Date:  
12.03.2025

Date of last issue: 30.07.2024  
Date of first issue: 17.08.2017

Print Date:  
12.03.2025

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Residual oils (petroleum), hydrotreated; Baseoil — unspecified	64742-57-0	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			
isobutane	75-28-5	AGW	1.000 ppm 2.400 mg/m <sup>3</sup>	DE TRGS 900 (2006-01-01)
	Peak-limit: excursion factor (category): 4;(II)			
		MAK	1.000 ppm 2.400 mg/m <sup>3</sup>	DE DFG MAK (2008-07-01)
	Further information: Either there are no data for an assessment of damage to the embryo or foetus, including developmental neurotoxicity, or the currently available data are not sufficient for classification in one of the groups A - C			
propane	74-98-6	MAK	1.000 ppm 1.800 mg/m <sup>3</sup>	DE DFG MAK (2006-07-01)
	Further information: Either there are no data for an assessment of damage to the embryo or foetus, including developmental neurotoxicity, or the currently available data are not sufficient for classification in one of the groups A - C			
		AGW	1.000 ppm 1.800 mg/m <sup>3</sup>	DE TRGS 900 (2006-01-01)
	Peak-limit: excursion factor (category): 4;(II)			
Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified	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			
butane	106-97-8	AGW	1.000 ppm 2.400 mg/m <sup>3</sup>	DE TRGS 900 (2006-01-01)
	Peak-limit: excursion factor (category): 4;(II)			
		MAK	1.000 ppm 2.400 mg/m <sup>3</sup>	DE DFG MAK (2008-07-01)
	Further information: Either there are no data for an assessment of damage to the embryo or foetus, including developmental neurotoxicity, or the currently available data are not sufficient for classification in one of the groups A - C			
O,O,O-triphenyl phosphorothioate	597-82-0	MAK (inhalable fraction)	20 mg/m <sup>3</sup>	DE DFG MAK (2023-07-01)
	Further information: Either there are no data for an assessment of damage to the embryo or foetus, including developmental neurotoxicity, or the currently			

# SAFETY DATA SHEET

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

**KLÜBER**  
LUBRICATION

## STRUCTOVIS BHD Spray

Version  
6.0

Revision Date:  
12.03.2025

Date of last issue: 30.07.2024  
Date of first issue: 17.08.2017

Print Date:  
12.03.2025

	available data are not sufficient for classification in one of the groups A - C		
	AGW (Inhalable fraction)	20 mg/m <sup>3</sup>	DE TRGS 900 (2021-07-02)
Peak-limit: excursion factor (category): 2;(II)			

### 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), hydrotreated; Baseoil — unspecified	Workers	Inhalation	Long-term systemic effects	2,7 mg/m <sup>3</sup>
	Workers	Inhalation	Acute systemic effects	5,6 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	1 mg/kg
Hydrocarbons, C7-C9, isoalkanes	Workers	Inhalation	Long-term systemic effects	2035 mg/m <sup>3</sup>
	Workers	Dermal	Long-term systemic effects	773 mg/kg bw/day
Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified	Workers	Inhalation	Long-term local effects	5,58 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term systemic effects	2,73 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	0,97 mg/kg
O,O,O-triphenyl phosphorothioate	Workers	Inhalation	Long-term systemic effects	1,39 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	0,4 mg/kg

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

Substance name	Environmental Compartment	Value
Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified	Oral	9,33 mg/kg
	Fresh water	0,00017 mg/l
	Marine water	0,000017 mg/l
	Fresh water sediment	3,47 mg/kg
	Marine sediment	0,347 mg/kg
	Soil	2,46 mg/kg

## 8.2 Exposure controls

### Engineering measures

Use only in an area equipped with explosion proof exhaust ventilation.

# SAFETY DATA SHEET

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



## STRUCTOVIS BHD Spray

Version	Revision Date:	Date of last issue: 30.07.2024	Print Date:
6.0	12.03.2025	Date of first issue: 17.08.2017	12.03.2025

Handle only in a place equipped with local exhaust (or other appropriate exhaust).

### Personal protective equipment

Eye/face 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 : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Short term only

Filter type : Filter type A-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.

### Environmental exposure controls

Air : Should not be released into the environment.

Soil :  
Do not allow contact with soil, surface or ground water.  
The product should not be allowed to enter drains, water courses or the soil.

Water :  
Do not allow contact with soil, surface or ground water.  
The product should not be allowed to enter drains, water

# SAFETY DATA SHEET

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

**KLÜBER**  
LUBRICATION

## STRUCTOVIS BHD Spray

Version 6.0	Revision Date: 12.03.2025	Date of last issue: 30.07.2024 Date of first issue: 17.08.2017	Print Date: 12.03.2025
----------------	------------------------------	---	---------------------------

courses or the soil.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : aerosol  
Colour : brown  
Odour : characteristic  
Odour Threshold : No data available

#### Values refer to the propellant:

Melting point/range : No data available  
Boiling point/boiling range : < -10 °C  
Flammability (solid, gas) : Extremely flammable aerosol.  
Upper explosion limit / Upper flammability limit : 11,2 %(V)  
Lower explosion limit / Lower flammability limit : 1,5 %(V)  
Flash point : -80 °C  
Method: closed cup  
Auto-ignition temperature : > 350 °C  
Decomposition temperature : No data available  
pH : Not applicable  
substance/mixture is non-soluble (in water)  
Viscosity  
Viscosity, dynamic : No data available  
Viscosity, kinematic : No data available  
Solubility(ies)  
Water solubility : < 0,1 g/l insoluble  
Solubility in other solvents : No data available

# SAFETY DATA SHEET

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

**KLÜBER**  
LUBRICATION

## STRUCTOVIS BHD Spray

Version 6.0	Revision Date: 12.03.2025	Date of last issue: 30.07.2024 Date of first issue: 17.08.2017	Print Date: 12.03.2025
----------------	------------------------------	---	---------------------------

Partition coefficient: n-octanol/water : No data available

Vapour pressure : 2.700 hPa (20 °C)

Relative density : 0,60 (20 °C)  
Reference substance: Water  
The value is calculated

Density : 0,60 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 : Heat, flames and sparks.  
Strong sunlight for prolonged periods.  
Risk of receptacle bursting.

### 10.5 Incompatible materials

Materials to avoid : Oxidizing agents

# SAFETY DATA SHEET

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

**KLÜBER**  
LUBRICATION

## STRUCTOVIS BHD Spray

Version	Revision Date:	Date of last issue: 30.07.2024	Print Date:
6.0	12.03.2025	Date of first issue: 17.08.2017	12.03.2025

### 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 : Remarks: This information is not available.
- Acute inhalation toxicity : Symptoms: Inhalation may provoke the following symptoms:,  
Respiratory disorder
- Acute dermal toxicity : Symptoms: Redness, Local irritation

##### Components:

#### Hydrocarbons, C7-C9, isoalkanes:

- Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 401
- Acute inhalation toxicity : LC50 (Rat): > 21 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute  
inhalation toxicity
- Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal  
toxicity

#### O,O,O-triphenyl phosphorothioate:

- Acute oral toxicity : LD50 (Rat): > 10.000 mg/kg  
Method: OECD Test Guideline 401
- Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal  
toxicity  
Remarks: No mortality observed at this dose.

#### Residual oils (petroleum), hydrotreated; Baseoil — unspecified:

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

# SAFETY DATA SHEET

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

**KLÜBER**  
LUBRICATION

## STRUCTOVIS BHD Spray

Version	Revision Date:	Date of last issue: 30.07.2024	Print Date:
6.0	12.03.2025	Date of first issue: 17.08.2017	12.03.2025

Method: OECD Test Guideline 401

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

### isobutane:

Acute inhalation toxicity : LC50 (Rat): 658 mg/l  
Exposure time: 4 h  
Test atmosphere: gas

### 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

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

### butane:

Acute inhalation toxicity : LC50 (Rat): 658 mg/l  
Exposure time: 4 h  
Test atmosphere: gas

### Skin corrosion/irritation

#### Product:

Remarks : Irritating to skin.

#### Components:

##### Hydrocarbons, C7-C9, isoalkanes:

Species : Rabbit  
Assessment : Irritating to skin.  
Method : OECD Test Guideline 404  
Result : Irritating to skin.

##### O,O,O-triphenyl phosphorothioate:

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

# SAFETY DATA SHEET

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

**KLÜBER**  
LUBRICATION

## STRUCTOVIS BHD Spray

Version	Revision Date:	Date of last issue: 30.07.2024	Print Date:
6.0	12.03.2025	Date of first issue: 17.08.2017	12.03.2025

### Residual oils (petroleum), hydrotreated; Baseoil — unspecified:

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

### Serious eye damage/eye irritation

#### Product:

Remarks : Contact with eyes may cause irritation.

#### Components:

##### Hydrocarbons, C7-C9, isoalkanes:

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

##### O,O,O-triphenyl phosphorothioate:

Species : Rabbit  
Assessment : No eye irritation  
Result : No eye irritation

##### Residual oils (petroleum), hydrotreated; Baseoil — unspecified:

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

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

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

# SAFETY DATA SHEET

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

**KLÜBER**  
LUBRICATION

## STRUCTOVIS BHD Spray

Version	Revision Date:	Date of last issue: 30.07.2024	Print Date:
6.0	12.03.2025	Date of first issue: 17.08.2017	12.03.2025

### Respiratory or skin sensitisation

#### Product:

Remarks : This information is not available.

#### Components:

##### Hydrocarbons, C7-C9, isoalkanes:

Species : Guinea pig  
Assessment : Did not cause sensitisation on laboratory animals.  
Method : OECD Test Guideline 406  
Result : Did not cause sensitisation on laboratory animals.

##### O,O,O-triphenyl phosphorothioate:

Assessment : Does not cause skin sensitisation.

##### Residual oils (petroleum), hydrotreated; Baseoil — unspecified:

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

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

### Germ cell mutagenicity

#### Product:

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

#### Components:

##### Hydrocarbons, C7-C9, isoalkanes:

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

# SAFETY DATA SHEET

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

**KLÜBER**  
LUBRICATION

## STRUCTOVIS BHD Spray

Version	Revision Date:	Date of last issue: 30.07.2024	Print Date:
6.0	12.03.2025	Date of first issue: 17.08.2017	12.03.2025

### **O,O,O-triphenyl phosphorothioate:**

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

### **Carcinogenicity**

#### **Product:**

Remarks : No data available

#### **Components:**

##### **Hydrocarbons, C7-C9, isoalkanes:**

Carcinogenicity -  
Assessment : Not classifiable as a human carcinogen.

##### **Residual oils (petroleum), hydrotreated; Baseoil — unspecified:**

Carcinogenicity -  
Assessment : Not classifiable as a human carcinogen.

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

Carcinogenicity -  
Assessment : Not classifiable as a human carcinogen.

### **Reproductive toxicity**

#### **Product:**

Effects on fertility : Remarks: No data available

Effects on foetal  
development : Remarks: No data available

#### **Components:**

##### **Hydrocarbons, C7-C9, isoalkanes:**

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

##### **O,O,O-triphenyl phosphorothioate:**

Reproductive toxicity -  
Assessment : - Fertility -  
Animal testing did not show any effects on fertility.

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

# SAFETY DATA SHEET

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



## STRUCTOVIS BHD Spray

Version 6.0	Revision Date: 12.03.2025	Date of last issue: 30.07.2024 Date of first issue: 17.08.2017	Print Date: 12.03.2025
----------------	------------------------------	---	---------------------------

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

### STOT - single exposure

**Product:**

Remarks : No data available

**Components:**

**Hydrocarbons, C7-C9, isoalkanes:**

Exposure routes : Inhalation  
Target Organs : Central nervous system  
Assessment : The substance or mixture is classified as specific target organ  
toxicant, single exposure, category 3 with narcotic effects.

### STOT - repeated exposure

**Product:**

Remarks : No data available

### Repeated dose toxicity

**Product:**

Remarks : This information is not available.

### Aspiration toxicity

**Product:**

May be fatal if swallowed and enters airways.

May be fatal if swallowed and enters airways.

**Components:**

**Hydrocarbons, C7-C9, isoalkanes:**

May be fatal if swallowed and enters airways.

**Residual oils (petroleum), hydrotreated; Baseoil — unspecified:**

No aspiration toxicity classification

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

No aspiration toxicity classification

# SAFETY DATA SHEET

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

**KLÜBER**  
LUBRICATION

## STRUCTOVIS BHD Spray

Version	Revision Date:	Date of last issue: 30.07.2024	Print Date:
6.0	12.03.2025	Date of first issue: 17.08.2017	12.03.2025

### 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: Toxic to aquatic organisms, may cause long-term 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:**

**Hydrocarbons, C7-C9, isoalkanes:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 18,4 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2,4 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 29 mg/l  
Exposure time: 72 h

# SAFETY DATA SHEET

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



## STRUCTOVIS BHD Spray

Version	Revision Date:	Date of last issue: 30.07.2024	Print Date:
6.0	12.03.2025	Date of first issue: 17.08.2017	12.03.2025

Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,17 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: Reproduction Test  
Method: OECD Test Guideline 211

### O,O,O-triphenyl phosphorothioate:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Test Type: Immobilization  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (activated sludge): > 100 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

Toxicity to fish (Chronic toxicity) : NOEC: 0,0017 mg/l  
Exposure time: 97 d  
Species: Oncorhynchus mykiss (rainbow trout)  
Test Type: flow-through test  
Method: OECD Test Guideline 210

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,00724 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: semi-static test  
Method: OECD Test Guideline 211

M-Factor (Chronic aquatic toxicity) : 10

### Residual oils (petroleum), hydrotreated; Baseoil — unspecified:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l  
Exposure time: 96 h  
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10.000 mg/l  
Exposure time: 48 h  
Test Type: Immobilization

# SAFETY DATA SHEET

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

**KLÜBER**  
LUBRICATION

## STRUCTOVIS BHD Spray

Version	Revision Date:	Date of last issue: 30.07.2024	Print Date:
6.0	12.03.2025	Date of first issue: 17.08.2017	12.03.2025

### 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 : EC50 (Daphnia magna (Water flea)): > 10.000 mg/l  
aquatic invertebrates  
Exposure time: 48 h  
Test Type: Immobilization  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to daphnia and other : NOEC: 10 mg/l  
aquatic invertebrates  
(Chronic toxicity)  
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 : Remarks: No data available  
removability

### Components:

#### Hydrocarbons, C7-C9, isoalkanes:

Biodegradability : Result: Not rapidly biodegradable

#### O,O,O-triphenyl phosphorothioate:

Biodegradability : Result: Not rapidly biodegradable

#### Residual oils (petroleum), hydrotreated; Baseoil — unspecified:

Biodegradability : Result: Not rapidly biodegradable

#### 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

# SAFETY DATA SHEET

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

**KLÜBER**  
LUBRICATION

## STRUCTOVIS BHD Spray

Version 6.0	Revision Date: 12.03.2025	Date of last issue: 30.07.2024 Date of first issue: 17.08.2017	Print Date: 12.03.2025
----------------	------------------------------	---	---------------------------

GLP: yes

### 12.3 Bioaccumulative potential

**Product:**

Bioaccumulation : Remarks: No data available

**Components:**

**Hydrocarbons, C7-C9, isoalkanes:**

Partition coefficient: n-  
octanol/water : log Pow: > 4

**O,O,O-triphenyl phosphorothioate:**

Bioaccumulation : Species: Cyprinus carpio (Carp)  
Exposure time: 56 d  
Bioconcentration factor (BCF): 2.551

Partition coefficient: n-  
octanol/water : log Pow: 5,1 (20 °C)

**isobutane:**

Partition coefficient: n-  
octanol/water : log Pow: 2,88  
Method: OECD Test Guideline 107

**propane:**

Partition coefficient: n-  
octanol/water : log Pow: 2,36

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

Partition coefficient: n-  
octanol/water : log Pow: 10,16 - 24,9

**butane:**

Partition coefficient: n-  
octanol/water : log Pow: 2,89  
Method: OECD Test Guideline 107

### 12.4 Mobility in soil

**Product:**

Mobility : Remarks: No data available

Distribution among  
environmental compartments : Remarks: No data available

# SAFETY DATA SHEET

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



## STRUCTOVIS BHD Spray

Version	Revision Date:	Date of last issue: 30.07.2024	Print Date:
6.0	12.03.2025	Date of first issue: 17.08.2017	12.03.2025

### 12.5 Results of PBT and vPvB assessment

**Product:**

Assessment : This substance/mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

**Components:**

**O,O,O-triphenyl phosphorothioate:**

Assessment : PBT substance. Substance is persistent, bioaccumulative, and toxic (PBT).. Substance is not very persistent and very bioaccumulative (vPvB).

**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 : Toxic to aquatic life with long lasting effects.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : 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.  
Offer empty spray cans to an established disposal company.  
Pressurized container: Do not pierce or burn, even after use.

# SAFETY DATA SHEET

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

**KLÜBER**  
LUBRICATION

## STRUCTOVIS BHD Spray

Version	Revision Date:	Date of last issue: 30.07.2024	Print Date:
6.0	12.03.2025	Date of first issue: 17.08.2017	12.03.2025

The following Waste Codes are only suggestions:

Waste Code : unused product, packagings not completely emptied  
16 05 04\*\*, gases in pressure containers (including halons)  
containing hazardous substances

## SECTION 14: Transport information

### 14.1 UN number or ID number

ADN : UN 1950  
ADR : UN 1950  
RID : UN 1950  
IMDG : UN 1950  
IATA : UN 1950

### 14.2 UN proper shipping name

ADN : AEROSOLS  
ADR : AEROSOLS  
RID : AEROSOLS  
IMDG : AEROSOLS  
(O,O,O-triphenyl phosphorothioate)  
IATA : Aerosols, flammable

### 14.3 Transport hazard class(es)

ADN : 2  
ADR : 2  
RID : 2  
IMDG : 2.1  
IATA : 2.1

### 14.4 Packing group

ADN  
Packing group : Not assigned by regulation  
Classification Code : 5F  
Labels : 2.1  
ADR  
Packing group : Not assigned by regulation  
Classification Code : 5F  
Labels : 2.1

# SAFETY DATA SHEET

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

**KLÜBER**  
LUBRICATION

## STRUCTOVIS BHD Spray

Version	Revision Date:	Date of last issue: 30.07.2024	Print Date:
6.0	12.03.2025	Date of first issue: 17.08.2017	12.03.2025

Tunnel restriction code : (D)

### RID

Packing group : Not assigned by regulation  
Classification Code : 5F  
Hazard Identification Number : 23  
Labels : 2.1

### IMDG

Packing group : Not assigned by regulation  
Labels : 2.1  
EmS Code : F-D, S-U

### IATA (Cargo)

Packing instruction (cargo aircraft) : 203  
Packing instruction (LQ) : Y203  
Packing group : Not assigned by regulation  
Labels : Flammable Gas

### IATA (Passenger)

Packing instruction (passenger aircraft) : 203  
Packing instruction (LQ) : Y203  
Packing group : Not assigned by regulation  
Labels : Flammable Gas

## 14.5 Environmental hazards

### ADN

Environmentally hazardous : yes

### ADR

Environmentally hazardous : yes

### RID

Environmentally hazardous : yes

### IMDG

Marine pollutant : yes

## 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## 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

# SAFETY DATA SHEET

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



## STRUCTOVIS BHD Spray

Version	Revision Date:	Date of last issue: 30.07.2024	Print Date:
6.0	12.03.2025	Date of first issue: 17.08.2017	12.03.2025

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:  
Number on list 75  
If you intend to use this product as tattoo ink, please contact your vendor.

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). (EU SVHC) : O,O,O-triphenyl phosphorothioate

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 (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals (EU PIC) : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) (EU. REACH-Annex XIV) : Not applicable

Regulation (EU) 2019/1148 on the marketing and use of 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. P3a FLAMMABLE AEROSOLS

E2 ENVIRONMENTAL HAZARDS

18 Liquefied flammable gases (including LPG) and natural gas

# SAFETY DATA SHEET

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

**KLÜBER**  
LUBRICATION

## STRUCTOVIS BHD Spray

Version	Revision Date:	Date of last issue: 30.07.2024	Print Date:
6.0	12.03.2025	Date of first issue: 17.08.2017	12.03.2025

P2

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	34	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)
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Water hazard class (Germany) : WGK 2 obviously hazardous to water  
Classification according to AwSV, Annex 1 (5.2)

TA Luft List (Germany) : 5.2.1: Total dust:  
others: 0,46 %  
5.2.2: Inorganic substances in powdered form:  
Not applicable  
5.2.4: Inorganic substances in gaseous form:  
Not applicable  
5.2.5: Organic Substances:  
Class 1: 39,63 %  
5.2.7.1.1: Carcinogenic substance:  
Class 3: 0,04 %  
5.2.7.1.1: Quartz fine dust PM4:  
Not applicable  
5.2.7.1.1: Formaldehyde:  
Not applicable  
5.2.7.1.1: fibres:  
Not applicable  
5.2.7.2: Poorly degradable, easily enrichable and highly toxic organic substances:  
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: 54,68 %

### Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national

# SAFETY DATA SHEET

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

**KLÜBER**  
LUBRICATION

## STRUCTOVIS BHD Spray

Version	Revision Date:	Date of last issue: 30.07.2024	Print Date:
6.0	12.03.2025	Date of first issue: 17.08.2017	12.03.2025

regulations, where applicable.

### 15.2 Chemical safety assessment

This information is not available.

## SECTION 16: Other information

### Full text of H-Statements

H220 : Extremely flammable gas.  
H225 : Highly flammable liquid and vapour.  
H280 : Contains gas under pressure; may explode if heated.  
H304 : May be fatal if swallowed and enters airways.  
H315 : Causes skin irritation.  
H336 : May cause drowsiness or dizziness.  
H410 : Very toxic to aquatic life with long lasting effects.  
H411 : Toxic to aquatic life with long lasting effects.

### Full text of other abbreviations

Note C : Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

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.

Note P : The harmonised classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0,1 % w/w benzene (Einecs No 200-753-7), in which case a classification in accordance with Title II of this Regulation shall be performed also for those hazard classes. Where the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102-)P260-P262-P301 + P310-P331 shall apply.

Note U (table 3.1) : When put on the market gases have to be classified as "Gases under pressure", in one of the groups compressed

# SAFETY DATA SHEET

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



## STRUCTOVIS BHD Spray

Version	Revision Date:	Date of last issue: 30.07.2024	Print Date:
6.0	12.03.2025	Date of first issue: 17.08.2017	12.03.2025

gas, liquefied gas, refrigerated liquefied gas or dissolved gas.  
The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case. The following codes are assigned: Press. Gas (Comp.) Press. Gas (Liq.) Press. Gas (Ref. Liq.) Press. Gas (Diss.) Aerosols shall not be classified as gases under pressure (See Annex I, Part 2, Section 2.3.2.1, Note 2).

DE DFG MAK : Germany. MAK BAT Annex IIa  
DE TRGS 900 : Germany. TRGS 900 - Occupational exposure limit values.  
DE DFG MAK / MAK : MAK value  
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; 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:

Aerosol 1 H222, H229  
Skin Irrit. 2 H315

#### Classification procedure:

Based on product data or assessment  
Calculation method

# SAFETY DATA SHEET

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



## STRUCTOVIS BHD Spray

Version 6.0	Revision Date: 12.03.2025	Date of last issue: 30.07.2024 Date of first issue: 17.08.2017	Print Date: 12.03.2025
Asp. Tox. 1	H304	Based on product data or assessment	
Aquatic Chronic 2	H411	Calculation method	

|| Relevant changes compared to the last edition are highlighted at the left margin. This version replaces all previous editions.

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