according to Regulation (EC) No. 1907/2006 - DE



STRUCTOVIS BHD Spray

Version Revision Date: Date of last issue: 13.09.2018 Print Date: 3.0 14.09.2018 Date of first issue: 17.08.2017 17.09.2018

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 Sub- : Lubricant spray

stance/Mixture

Recommended restrictions

on use

Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

Company : Klüber Lubrication München

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

Geisenhausenerstraße 7

81379 München Deutschland Tel.: +49 89 7876 0 Fax: +49 89 7876 565

customer.service.de@klueber.com

www.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.

H229: Pressurised container: May burst if heated.

according to Regulation (EC) No. 1907/2006 - DE



STRUCTOVIS BHD Spray

VersionRevision Date:Date of last issue: 13.09.2018Print Date:3.014.09.2018Date of first issue: 17.08.201717.09.2018

Skin irritation, Category 2 H315: Causes skin irritation.

Aspiration hazard, Category 1 H304: May be fatal if swallowed and enters air-

ways.

Chronic aquatic toxicity, Category 3 H412: Harmful to aquatic life with long lasting ef-

fects.

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 air-

ways.

H315 Causes skin irritation.

H412 Harmful to aquatic life with long lasting ef-

fects.

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.

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:

Alkanes, C7-10-iso-

2.3 Other hazards

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).



according to Regulation (EC) No. 1907/2006 - DE



STRUCTOVIS BHD Spray

Version Revision Date: Date of last issue: 13.09.2018 Print Date: 3.0 14.09.2018 Date of first issue: 17.08.2017 17.09.2018

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Propellant

Mineral oil.

solvent (hydrocarbons) Synthetic hydrocarbon oil

Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration limits M-Factor Notes	Concentration (% w/w)
Alkanes, C7-10-iso-	90622-56-3 292-458-5	Flam. Liq.2; H225 Skin Irrit.2; H315 STOT SE3; H336 Asp. Tox.1; H304 Aquatic Chronic2; H411		>= 10 - < 20
Substances with a work	place exposure limit:			
isobutane	75-28-5 200-857-2 601-004-00-0 01-2119485395-27- XXXX	Flam. Gas1; H220 Press. GasCompr. Gas; H280	Note U (table 3.1), Note C	>= 30 - < 50
propane	74-98-6 200-827-9 601-003-00-5 01-2119486944-21- XXXX	Flam. Gas1; H220 Press. GasCompr. Gas; H280		>= 1 - < 10
butane	106-97-8 203-448-7 601-004-00-0 01-2119474691-32- XXXX	Flam. Gas1; H220 Press. GasCompr. Gas; H280		>= 1 - < 10

For explanation of abbreviations see section 16.



according to Regulation (EC) No. 1907/2006 - DE



STRUCTOVIS BHD Spray

VersionRevision Date:Date of last issue: 13.09.2018Print Date:3.014.09.2018Date of first issue: 17.08.201717.09.2018

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 respira-

ion.

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

Wash off immediately with soap and plenty of water.

Get medical attention immediately if irritation develops and

persists.

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. 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.

according to Regulation (EC) No. 1907/2006 - DE



STRUCTOVIS BHD Spray

Date of last issue: 13.09.2018 Print Date: Version Revision Date: Date of first issue: 17.08.2017 17.09.2018 3.0 14.09.2018

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-

fighting

Fire may cause evolution of:

Carbon oxides

Fire Hazard

Do not let product enter drains.

Contains gas under pressure; may explode if heated.

Beware of vapours accumulating to form explosive concentra-

tions. Vapours can accumulate in low areas.

5.3 Advice for firefighters

Special protective equipment:

for firefighters

In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. In the case of respirable

dust and/or fumes, use self-contained breathing apparatus. 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

according to Regulation (EC) No. 1907/2006 - DE



STRUCTOVIS BHD Spray

Version Revision Date: Date of last issue: 13.09.2018 Print Date: 3.0 14.09.2018 Date of first issue: 17.08.2017 17.09.2018

respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible ab-

sorbent 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.

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 ap-

plication 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 na-

tional regulations.

Storage class (TRGS 510) : 2B, Aerosol cans and lighters



according to Regulation (EC) No. 1907/2006 - DE



STRUCTOVIS BHD Spray

VersionRevision Date:Date of last issue: 13.09.2018Print Date:3.014.09.2018Date of first issue: 17.08.201717.09.2018

7.3 Specific end use(s)

Specific use(s) : Consult the technical guidelines for the use of this sub-

stance/mixture.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
isobutane	75-28-5	AGW	1.000 ppm 2.400 mg/m3	DE TRGS 900 (2006-01-01)
Peak-limit: excursion factor (category)	4;(II)			
Further information	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			
Alkanes, C7-10- iso-	90622-56-3	AGW	1.500 mg/m3	DE TRGS 900 (2009-02-16)
Peak-limit: excursion factor (category)	2;(II)			
Further information	Group exposure limit for hydrocarbon solvent mixtures, Commission for dangerous substances, See also No. 2.9 of the TRGS 900			
		AGW	600 mg/m3	DE TRGS 900 (2009-02-16)
Peak-limit: excursion factor (category)	2;(II)			
Further information	Group exposure limit for hydrocarbon solvent mixtures, Commission for dangerous substances, See also No. 2.9 of the TRGS 900			
propane	74-98-6	AGW	1.000 ppm 1.800 mg/m3	DE TRGS 900 (2006-01-01)
Peak-limit: excursion factor (category)	4;(II)			
Further information	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			
butane	106-97-8	AGW	1.000 ppm 2.400 mg/m3	DE TRGS 900 (2006-01-01)
Peak-limit: excursion factor (category)	4;(II)			



according to Regulation (EC) No. 1907/2006 - DE



STRUCTOVIS BHD Spray

VersionRevision Date:Date of last issue: 13.09.2018Print Date:3.014.09.2018Date of first issue: 17.08.201717.09.2018

Further information | Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).

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

Substance name	End Use	Exposure routes	Potential health effects	Value
Residual oils (petro- leum), hydrotreated; Baseoil -unspecified	Workers	Inhalation	Long-term systemic effects	2,7 mg/m3
	Workers	Inhalation	Acute systemic effects	5,6 mg/m3
	Workers	Skin contact	Long-term systemic effects	1 mg/kg
Alkanes, C7-10-iso-	Workers	Inhalation	Long-term systemic effects	2035 mg/m3
	Workers	Skin contact	Long-term systemic effects	773 mg/kg

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

Substance name	Environmental Compartment	Value
distillates (petroleum), solvent- refined heavy paraffinic	Oral	9,33 mg/kg

8.2 Exposure controls

Engineering measures

Use only in an area equipped with explosion proof exhaust ventilation. Handle only in a place equipped with local exhaust (or other appropriate exhaust).

Personal protective equipment

Eye protection : Safety glasses with side-shields conforming to EN166

Hand protection

Material : Nitrile rubber Protective index : Class 1

Remarks : Wear protective gloves. The selected protective gloves have

to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. 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.

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

according to Regulation (EC) No. 1907/2006 - DE



STRUCTOVIS BHD Spray

VersionRevision Date:Date of last issue: 13.09.2018Print Date:3.014.09.2018Date of first issue: 17.08.201717.09.2018

to the concentration and amount of the dangerous substance

at the specific workplace.

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the spe-

cific work-place.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : aerosol

Colour : brown

Odour : characteristic

Odour Threshold : No data available

Values refer to the propellant:

pH : No data available

Melting point/range : No data available

Boiling point/boiling range : < -10 °C

(1.013 hPa)

Flash point : -60 °C

Method: closed cup

Evaporation rate : No data available

Flammability (solid, gas) : Extremely flammable aerosol.

Upper explosion limit : 11,2 %(V)

Lower explosion limit : 1,5 %(V)

Vapour pressure : 2.700 hPa (20 °C)

Relative vapour density : No data available

Density : 0,60 g/cm3

(20 °C)

Bulk density : No data available

Solubility(ies)

Water solubility : < 0,1 g/l insoluble



according to Regulation (EC) No. 1907/2006 - DE



STRUCTOVIS BHD Spray

Version Revision Date: Date of last issue: 13.09.2018 Print Date: 3.0 14.09.2018 Date of first issue: 17.08.2017 17.09.2018

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: No data available

Auto-ignition temperature : > 350 °C

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Explosive properties : Not explosive

Oxidizing properties : No data available

9.2 Other information

Sublimation point : No data available

Self-ignition : 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.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.



according to Regulation (EC) No. 1907/2006 - DE



STRUCTOVIS BHD Spray

Date of last issue: 13.09.2018 Print Date: Version Revision Date: Date of first issue: 17.08.2017 17.09.2018 3.0 14.09.2018

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Remarks: This information is not available. Acute oral toxicity

Acute inhalation toxicity Symptoms: Inhalation may provoke the following symptoms:,

Respiratory disorder

Acute dermal toxicity Symptoms: Redness, Local irritation

Components:

Alkanes, C7-10-iso-:

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 inhala-

tion toxicity

LD50 (Rabbit): > 2.200 mg/kg Acute dermal toxicity

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

isobutane:

LC50 (Rat): 658 mg/l Acute inhalation toxicity

Exposure time: 4 h Test atmosphere: gas

butane:

LC50 (Rat): 658 mg/l Acute inhalation toxicity

Exposure time: 4 h Test atmosphere: gas

Skin corrosion/irritation

Product:

Remarks: Irritating to skin.

according to Regulation (EC) No. 1907/2006 - DE



STRUCTOVIS BHD Spray

Version Revision Date: Date of last issue: 13.09.2018 Print Date: 3.0 14.09.2018 Date of first issue: 17.08.2017 17.09.2018

Components:

Alkanes, C7-10-iso-:

Species: Rabbit

Assessment: Irritating to skin. Method: OECD Test Guideline 404

Result: Irritating to skin.

GLP: yes

Serious eye damage/eye irritation

Product:

Remarks: Contact with eyes may cause irritation.

Components:

Alkanes, C7-10-iso-:

Species: Rabbit

Assessment: No eye irritation Method: OECD Test Guideline 405

Result: No eye irritation

Respiratory or skin sensitisation

Product:

Remarks: This information is not available.

Components:

Alkanes, C7-10-iso-:

Test Type: Maximisation Test

Species: Guinea pig

Assessment: Did not cause sensitisation on laboratory animals.

Method: OECD Test Guideline 406

Result: Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

Product:

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

Components:

Alkanes, C7-10-iso-:

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

according to Regulation (EC) No. 1907/2006 - DE



STRUCTOVIS BHD Spray

Version Revision Date: Date of last issue: 13.09.2018 Print Date: 3.0 14.09.2018 Date of first issue: 17.08.2017 17.09.2018

sessment mutagenic effects.

Carcinogenicity

Product:

Remarks: No data available

Components:

Alkanes, C7-10-iso-:

Carcinogenicity - Assess-

ment

: Not classifiable as a human carcinogen.

Reproductive toxicity

Product:

Effects on fertility : Remarks: No data available

Effects on foetal develop-

ment

Remarks: No data available

Components:

Alkanes, C7-10-iso-:

Reproductive toxicity - As-

sessment

No toxicity to reproduction No toxicity to reproduction

STOT - single exposure

Components:

Alkanes, C7-10-iso-:

Exposure routes: Inhalation

Target Organs: Central nervous system

Assessment: The substance or mixture is classified as specific target organ toxicant, single ex-

posure, category 3 with narcotic effects.

STOT - repeated exposure

Components:

Alkanes, C7-10-iso-:

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.



according to Regulation (EC) No. 1907/2006 - DE



STRUCTOVIS BHD Spray

Version Revision Date: Date of last issue: 13.09.2018 Print Date: 3.0 14.09.2018 Date of first issue: 17.08.2017 17.09.2018

Aspiration toxicity

Product:

May be fatal if swallowed and enters airways.

May be fatal if swallowed and enters airways.

Components:

Alkanes, C7-10-iso-:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks: Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance.

SECTION 12: Ecological information

12.1 Toxicity

Product:

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

adverse effects in the aquatic environment.

Toxicity to daphnia and other :

aquatic invertebrates

Remarks: No data available

Toxicity to algae : Remarks: No data available

Toxicity to microorganisms

Remarks: No data available

Components:

Alkanes, C7-10-iso-:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 18,4 mg/l

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

Method: OECD Test Guideline 203

GLP: yes

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 2,4 mg/l

Exposure time: 48 h Test Type: static test



according to Regulation (EC) No. 1907/2006 - DE



STRUCTOVIS BHD Spray

Version Revision Date: Date of last issue: 13.09.2018 Print Date: Date of first issue: 17.08.2017 3.0 14.09.2018 17.09.2018

Method: OECD Test Guideline 202

Toxicity to algae NOELR (Pseudokirchneriella subcapitata (green algae)): 10

mg/l

Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201

GLP: yes

EC50 (Pseudokirchneriella subcapitata (green algae)): 29 mg/l

Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201

GLP: yes

EC50 (Tetrahymena pyriformis): 28,48 mg/l Toxicity to microorganisms

> End point: Growth rate Exposure time: 48 h

GLP:

Remarks: The value is calculated

Toxicity to fish (Chronic toxic-:

ity)

NOEC: 0,778 mg/l Exposure time: 28 d

Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic toxicity)

NOEC: 0,17 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test Type: Reproduction Test Method: OECD Test Guideline 211

GLP: yes

12.2 Persistence and degradability

Product:

Biodegradability Remarks: No data available

Physico-chemical removabili- : Remarks: No data available

Components:

Alkanes, C7-10-iso-:

Biodegradability Test Type: aerobic

Inoculum: activated sludge Result: Not rapidly biodegradable

Biodegradation: 51,3 % Exposure time: 28 d

Method: OECD Test Guideline 301F

according to Regulation (EC) No. 1907/2006 - DE



STRUCTOVIS BHD Spray

Date of last issue: 13.09.2018 Version Revision Date: Print Date: Date of first issue: 17.08.2017 17.09.2018 3.0 14.09.2018

12.3 Bioaccumulative potential

Product:

Remarks: This mixture contains no substance considered to Bioaccumulation

be persistent, bioaccumulating and toxic (PBT).

This mixture contains no substance considered to be very

persistent and very bioaccumulating (vPvB).

Components:

Alkanes, C7-10-iso-:

Partition coefficient: n-

octanol/water

log Pow: 4,3 - 5,1

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

butane:

Partition coefficient: n-

log Pow: 2,89

Method: OECD Test Guideline 107 octanol/water

12.4 Mobility in soil

Product:

Mobility Remarks: No data available

Distribution among environ-

mental compartments

Remarks: No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment This mixture contains no substance considered to be persis-

> tent, bioaccumulating and toxic (PBT).. This mixture contains no substance considered to be very persistent and very bio-

accumulating (vPvB)..

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...



according to Regulation (EC) No. 1907/2006 - DE



STRUCTOVIS BHD Spray

Date of last issue: 13.09.2018 Print Date: Version Revision Date: Date of first issue: 17.08.2017 17.09.2018 3.0 14.09.2018

Components:

Alkanes, C7-10-iso-:

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

stance.

12.6 Other adverse effects

Product:

tion

Additional ecological informa: Toxic to aquatic life with long lasting effects.

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.

The following Waste Codes are only suggestions:

SECTION 14: Transport information

14.1 UN number

ADR UN 1950 **IMDG** UN 1950 **IATA** UN 1950

14.2 UN proper shipping name

ADR : AEROSOLS **IMDG AEROSOLS**

IATA Aerosols, flammable

14.3 Transport hazard class(es)

ADR 2



according to Regulation (EC) No. 1907/2006 - DE



STRUCTOVIS BHD Spray

Version Revision Date: Date of last issue: 13.09.2018 Print Date: 3.0 14.09.2018 Date of first issue: 17.08.2017 17.09.2018

IMDG : 2.1 IATA : 2.1

14.4 Packing group

ADR

Packing group : Not assigned by regulation

Classification Code : 5F Labels : 2.1 Tunnel restriction code : (D)

IMDG

Packing group : Not assigned by regulation

Labels : 2.1 EmS Code : F-D, S-U

IATA (Cargo)

Packing instruction (cargo :

aircraft)

Packing instruction (LQ) : Y203

Packing group : Not assigned by regulation

203

Labels : Flammable Gas

IATA (Passenger)

Packing instruction (passen: 203

ger aircraft)

Packing instruction (LQ) : Y203

Packing group : Not assigned by regulation

Labels : Flammable Gas

14.5 Environmental hazards

ADR

Environmentally hazardous : no

IMDG

Marine pollutant : no

IATA (Passenger)

Environmentally hazardous : no

IATA (Cargo)

Environmentally hazardous : no

14.6 Special precautions for user

No special precautions required.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

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



according to Regulation (EC) No. 1907/2006 - DE



STRUCTOVIS BHD Spray

Version Revision Date: Date of last issue: 13.09.2018 Print Date: 3.0 14.09.2018 Date of first issue: 17.08.2017 17.09.2018

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

This product does not contain substances of very high concern (Regulation (FC) No. 1007/2006 (REACH)

lation (EC) No 1907/2006 (REACH), Article 57).

REACH - List of substances subject to authorisation :

(Annex XIV)

Not applicable

Regulation (EC) No 1005/2009 on substances that dep-

lete the ozone layer

Not applicable

Regulation (EC) No 850/2004 on persistent organic pol-

lutants

Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import

of dangerous chemicals

Not applicable

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

preparations and articles (Annex XVII)

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.

Quantity 1 Quantity 2
P3a FLAMMABLE AEROSOLS 150 t 500 t

P2

P5c

34 Petroleum products: (a) 2.500 t 25.000 t

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)

Water contaminating class

(Germany)

WGK 2 significantly water endangering

Classification according to AwSV, Annex 1 (5.2)

TA Luft List (Germany) : Total dust:

others: 0,46 %

according to Regulation (EC) No. 1907/2006 - DE



STRUCTOVIS BHD Spray

Version Revision Date: Date of last issue: 13.09.2018 Print Date: 3.0 14.09.2018 Date of first issue: 17.08.2017 17.09.2018

Inorganic substances in powdered form:

Not applicable

Inorganic substances in vapour or gaseous form:

Not applicable
Organic Substances:
portion Class 1: < 0,01 %

others: 99,5 %

Carcinogenic substances: portion Class 3: 0,04 %

Mutagenic: others: 0,04 %

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: 54,68 %

Remarks: VOC content excluding water

Other regulations:

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

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 specif-

ic isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the sub-



according to Regulation (EC) No. 1907/2006 - DE



STRUCTOVIS BHD Spray

Version Revision Date: Date of last issue: 13.09.2018 Print Date: 3.0 14.09.2018 Date of first issue: 17.08.2017 17.09.2018

stance is a specific isomer or a mixture of isomers.

Note U (table 3.1) : When put on the market gases have to be classified as "Gas-

es under pressure", in one of the groups compressed 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.

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways: ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; 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; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture: Classification procedure:

Aerosol 1 H222, H229 Based on product data or assessment

Skin Irrit. 2 H315 Calculation method

Asp. Tox. 1 H304 Based on product data or assessment

Aguatic Chronic 3 H412 Calculation method

This safety datasheet applies only to products originally packaged and labelled by KLÜBER LUBRICATION. The information contained therein is protected by copyright and must not be reproduced or amended without the express written approval of KLÜBER LUBRICATION. This



according to Regulation (EC) No. 1907/2006 - DE



STRUCTOVIS BHD Spray

VersionRevision Date:Date of last issue: 13.09.2018Print Date:3.014.09.2018Date of first issue: 17.08.201717.09.2018

document may be passed on only to the extent required by law. Any dissemination of our safety datasheets (e.g. as a document for download from the Internet) beyond this legally required extent is not permitted without express written consent.KLÜBER LUBRICATION provides its customers with amended safety datasheets as prescribed by law. The customer is responsible for passing on safety datasheets and any amendments contained therein to its own customers, employees and other users of the product. KLÜBER LUBRICATION provides no guarantee that safety datasheets received by users from third parties are up-to-date.All information and instructions in this safety datasheets were compiled to the best of our knowledge and are based on the information available to us. The data provided are intended to describe the product in relation to the required safety measures; they are neither an assurance of characteristics nor a guarantee of the product's suitability for particular applications and do not justify any contractual legal relationships.