

Page 1 of 16  
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revision date / version: 01.11.2021 / 0013  
Replacing version dated / version: 22.02.2019 / 0012  
Valid from: 01.11.2021  
PDF print date: 01.11.2021  
Multi Lube S422  
500 ml Art.: 6530 1510, Art.: 6534 1510

## Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

#### 1.1 Product identifier

**Multi Lube S422**  
**500 ml Art.: 6530 1510, Art.: 6534 1510**

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

**Relevant identified uses of the substance or mixture:**

Lubricant

**Uses advised against:**

No information available at present.

#### 1.3 Details of the supplier of the safety data sheet

Theo Förch GmbH & Co. KG  
Theo-Förch-Str. 11 – 15  
74196 Neuenstadt  
Tel.: 07139/95-0  
Fax: 07139/95-199  
Email: [info@foerch.de](mailto:info@foerch.de)  
Homepage: [www.foerch.com](http://www.foerch.com)

Details of the supplier of the safety data sheet see section 16 of this safety data sheet.

Qualified person's e-mail address: [info@chemical-check.de](mailto:info@chemical-check.de), [k.schnurbusch@chemical-check.de](mailto:k.schnurbusch@chemical-check.de) Please DO NOT use for requesting Safety Data Sheets.

#### 1.4 Emergency telephone number

**Emergency information services / official advisory body:**

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**Telephone number of the company in case of emergencies:**

+49 (0) 700 / 24 112 112 (TFC)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) 1272/2008 (CLP)**

Hazard class	Hazard category	Hazard statement
Skin Irrit.	2	H315-Causes skin irritation.
Asp. Tox.	1	H304-May be fatal if swallowed and enters airways.
STOT SE	3	H336-May cause drowsiness or dizziness.
Aquatic Chronic	2	H411-Toxic to aquatic life with long lasting effects.
Aerosol	1	H222-Extremely flammable aerosol.
Aerosol	1	H229-Pressurised container: May burst if heated.

#### 2.2 Label elements

**Labeling according to Regulation (EC) 1272/2008 (CLP)**

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 01.11.2021 / 0013  
 Replacing version dated / version: 22.02.2019 / 0012  
 Valid from: 01.11.2021  
 PDF print date: 01.11.2021  
 Multi Lube S422  
 500 ml Art.: 6530 1510, Art.: 6534 1510



**Danger**

H315-Causes skin irritation. H336-May cause drowsiness or dizziness. H411-Toxic to aquatic life with long lasting effects. H222-Extremely flammable aerosol. H229-Pressurised container: May burst if heated.

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. P261-Avoid breathing spray. P273-Avoid release to the environment. P280-Wear protective gloves.

P312-Call a POISON CENTRE / doctor if you feel unwell.

P410+P412-Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

Without adequate ventilation, formation of explosive mixtures may be possible.  
 Naphtha (petroleum), hydrotreated light

**2.3 Other hazards**

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

Dangerous vapours heavier than air.

In case of spreading near the ground, flashback to distance sources of ignition is possible.

**SECTION 3: Composition/information on ingredients**

**3.1 Substances**

n.a.

**3.2 Mixtures**

<b>Naphtha (petroleum), hydrotreated light</b>	
<b>Registration number (REACH)</b>	---
<b>Index</b>	649-328-00-1
<b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>	265-151-9
<b>CAS</b>	64742-49-0
<b>content %</b>	30-40
<b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b>	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
<b>Isobutane</b>	
<b>Registration number (REACH)</b>	---
<b>Index</b>	601-004-00-0
<b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>	200-857-2
<b>CAS</b>	75-28-5
<b>content %</b>	20-40
<b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b>	Flam. Gas 1A, H220
<b>Butane</b>	
<b>Registration number (REACH)</b>	---
<b>Index</b>	601-004-00-0

GB

Page 3 of 16  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 01.11.2021 / 0013  
 Replacing version dated / version: 22.02.2019 / 0012  
 Valid from: 01.11.2021  
 PDF print date: 01.11.2021  
 Multi Lube S422  
 500 ml Art.: 6530 1510, Art.: 6534 1510

<b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>	203-448-7
<b>CAS</b>	106-97-8
<b>content %</b>	5-25
<b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b>	Flam. Gas 1A, H220

<b>Propane</b>	
<b>Registration number (REACH)</b>	---
<b>Index</b>	601-003-00-5
<b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>	200-827-9
<b>CAS</b>	74-98-6
<b>content %</b>	5-25
<b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b>	Flam. Gas 1A, H220

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.  
 The substances named in this section are given with their actual, appropriate classification!  
 For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.  
 If, for example, the note P is applied for a hydrocarbon then this has already been taken into account for the classification named here.  
 Quote: "Note P - The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7)."  
 Article 4 of the regulation (EC) no. 1272/2008 (CLP regulation) was also observed and taken into account for the classification named here.

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

First-aiders should ensure they are protected!  
 Never pour anything into the mouth of an unconscious person!

**Inhalation**

Remove person from danger area.  
 Supply person with fresh air and consult doctor according to symptoms.  
 If the person is unconscious, place in a stable side position and consult a doctor.

**Skin contact**

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

**Eye contact**

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

**Ingestion**

Typically no exposure pathway.  
 Do not induce vomiting. Consult doctor immediately.  
 Danger of aspiration.

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

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

The following may occur:

- Irritation of the eyes
- Irritation of the respiratory tract
- Headaches
- Dizziness
- Nausea
- Effects/damages the central nervous system
- Unconsciousness
- With long-term contact:
- Drying of the skin.
- Dermatitis (skin inflammation)
- Ingestion:
- Danger of aspiration.
- Oedema of the lungs
- Other dangerous properties cannot be ruled out.

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

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

n.c.

**SECTION 5: Firefighting measures**

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revision date / version: 01.11.2021 / 0013  
Replacing version dated / version: 22.02.2019 / 0012  
Valid from: 01.11.2021  
PDF print date: 01.11.2021  
Multi Lube S422  
500 ml Art.: 6530 1510, Art.: 6534 1510

## 5.1 Extinguishing media

### Suitable extinguishing media

CO2  
Water jet spray  
Extinction powder  
Alcohol resistant foam

### Unsuitable extinguishing media

High volume water jet

## 5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Formaldehyde  
Oxides of carbon  
Toxic pyrolysis products.  
Danger of explosion by prolonged heating.  
Explosive vapour/air or gas/air mixtures.

## 5.3 Advice for firefighters

For personal protective equipment see Section 8.  
Protective respirator with independent air supply.  
Full protection, if necessary.  
Cool container at risk with water.  
Dispose of contaminated extinction water according to official regulations.

## SECTION 6: Accidental release measures

## 6.1 Personal precautions, protective equipment and emergency procedures

### 6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination.  
Ensure sufficient ventilation, remove sources of ignition.  
Avoid dust formation with solid or powder products.  
Leave the danger zone if possible, use existing emergency plans if necessary.  
Remove possible causes of ignition - do not smoke.  
Ensure sufficient supply of air.  
Avoid inhalation, and contact with eyes or skin.  
If applicable, caution - risk of slipping.

### 6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

## 6.2 Environmental precautions

If leakage occurs, dam up.  
Resolve leaks if this possible without risk.  
Prevent surface and ground-water infiltration, as well as ground penetration.  
Prevent penetration into drains, cellars, working pits or other places in which accumulation could be hazardous.

## 6.3 Methods and material for containment and cleaning up

If spray or gas escapes, ensure ample fresh air is available.  
Active substance:  
Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13.

## 6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

## SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

## 7.1 Precautions for safe handling

### 7.1.1 General recommendations

Ensure good ventilation.  
Avoid inhalation of the vapours.  
Keep away from sources of ignition - Do not smoke.  
Do not use on hot surfaces.  
Avoid contact with eyes or skin.  
Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.  
Observe directions on label and instructions for use.

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Page 5 of 16  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 01.11.2021 / 0013  
 Replacing version dated / version: 22.02.2019 / 0012  
 Valid from: 01.11.2021  
 PDF print date: 01.11.2021  
 Multi Lube S422  
 500 ml Art.: 6530 1510, Art.: 6534 1510

Use working methods according to operating instructions.

### 7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.  
 Wash hands before breaks and at end of work.  
 Keep away from food, drink and animal feedingstuffs.  
 Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.  
 Store product closed and only in original packing.  
 Not to be stored in gangways or stair wells.  
 Observe special regulations for aerosols!  
 Observe special storage conditions.  
 Store in a well ventilated place.  
 Keep protected from direct sunlight and temperatures over 50°C.  
 Observe special storage conditions.

### 7.3 Specific end use(s)

No information available at present.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Workplace exposure limit (WEL) of the total hydrocarbon solvent content of the mixture (RCP method according to EH40):  
 800 mg/m3

Ⓢ	Chemical Name	Naphtha (petroleum), hydrotreated light	
	WEL-TWA: 800 mg/m3	WEL-STEL: ---	---
	Monitoring procedures:	- Compur - KITA-187 S (551 174)	
	BMGV: ---	Other information: (OEL acc. to RCP-method, paragraphs 84-87, EH40)	

Ⓢ	Chemical Name	Isobutane	
	WEL-TWA: 1000 ppm (EX) (ACGIH)	WEL-STEL: ---	---
	Monitoring procedures:	- Compur - KITA-113 SB(C) (549 368)	
	BMGV: ---	Other information: ---	

Ⓢ	Chemical Name	Butane	
	WEL-TWA: 600 ppm (1450 mg/m3)	WEL-STEL: 750 ppm (1810 mg/m3)	---
	Monitoring procedures:	- Compur - KITA-221 SA (549 459) - OSHA PV2010 (n-Butane) - 1993	
	BMGV: ---	Other information: ---	

Ⓢ	Chemical Name	Propane	
	WEL-TWA: 1000 ppm (ACGIH)	WEL-STEL: ---	---
	Monitoring procedures:	- Compur - KITA-125 SA (549 954) - OSHA PV2077 (Propane) - 1990	
	BMGV: ---	Other information: ---	

Ⓢ WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).

(8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

\*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

(13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

### 8.2 Exposure controls

#### 8.2.1 Appropriate engineering controls

Page 6 of 16  
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revision date / version: 01.11.2021 / 0013  
Replacing version dated / version: 22.02.2019 / 0012  
Valid from: 01.11.2021  
PDF print date: 01.11.2021  
Multi Lube S422  
500 ml Art.: 6530 1510, Art.: 6534 1510

Ensure good ventilation. This can be achieved by local suction or general air extraction.  
If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.  
Applies only if maximum permissible exposure values are listed here.  
Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.  
These are specified by e.g. EN 14042.  
EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

### 8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.  
Wash hands before breaks and at end of work.  
Keep away from food, drink and animal feedingstuffs.  
Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:  
Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:  
Solvent resistant protective gloves (EN ISO 374).  
Recommended  
Protective nitrile gloves (EN ISO 374).  
Minimum layer thickness in mm:  
> 0,45  
Permeation time (penetration time) in minutes:  
> 480  
Protective hand cream recommended.  
The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.  
The recommended maximum wearing time is 50% of breakthrough time.

Skin protection - Other:  
Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection:  
Normally not necessary.  
If OES or MEL is exceeded.  
Filter A2 P2 (EN 14387), code colour brown, white

Thermal hazards:  
If applicable, these are included in the individual protective measures (eye/face protection, skin protection, respiratory protection).

Additional information on hand protection - No tests have been performed.  
In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.  
Selection of materials derived from glove manufacturer's indications.  
Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.  
Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.  
In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.  
The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

### 8.2.3 Environmental exposure controls

No information available at present.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state:	Aerosol. Active substance: liquid.
Colour:	Colourless
Odour:	Test petrol
Melting point/freezing point:	There is no information available on this parameter.
Boiling point or initial boiling point and boiling range:	There is no information available on this parameter.
Flammability:	Does not apply to aerosols.
Lower explosion limit:	0,8 Vol-% (Naphtha (petroleum), hydrotreated light)
Upper explosion limit:	There is no information available on this parameter.

Page 7 of 16  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 01.11.2021 / 0013  
 Replacing version dated / version: 22.02.2019 / 0012  
 Valid from: 01.11.2021  
 PDF print date: 01.11.2021  
 Multi Lube S422  
 500 ml Art.: 6530 1510, Art.: 6534 1510

Flash point:	Does not apply to aerosols.
Auto-ignition temperature:	>250 °C
Decomposition temperature:	There is no information available on this parameter.
pH:	Mixture is non-soluble (in water).
Kinematic viscosity:	Does not apply to aerosols.
Solubility:	Insoluble
Partition coefficient n-octanol/water (log value):	Does not apply to mixtures.
Vapour pressure:	There is no information available on this parameter.
Density and/or relative density:	0,637 g/ml
Relative vapour density:	Does not apply to aerosols.
Particle characteristics:	Does not apply to aerosols.
<b>9.2 Other information</b>	
Explosives:	Product is not explosive. Possible build up of explosive/highly flammable vapour/air mixture.
Oxidising liquids:	No

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The product has not been tested.

### 10.2 Chemical stability

See also Subsection 10.1 to 10.6.

Stable with proper storage and handling.

### 10.3 Possibility of hazardous reactions

See also Subsection 10.1 to 10.6.

No decomposition if used as intended.

### 10.4 Conditions to avoid

See also section 7.

Heating, open flame, ignition sources

Pressure increase will result in danger of bursting.

### 10.5 Incompatible materials

See also section 7.

Avoid contact with strong oxidizing agents.

### 10.6 Hazardous decomposition products

See also Subsection 10.1 to 10.5.

See also section 5.2

No decomposition when used as directed.

## SECTION 11: Toxicological information

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

Possibly more information on health effects, see Section 2.1 (classification).

#### Multi Lube S422

500 ml Art.: 6530 1510, Art.: 6534 1510

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:						n.d.a.
Acute toxicity, by dermal route:						n.d.a.
Acute toxicity, by inhalation:						n.d.a.
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin sensitisation:						n.d.a.
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity - single exposure (STOT-SE):						n.d.a.
Specific target organ toxicity - repeated exposure (STOT-RE):						n.d.a.
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.



Isobutane						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by inhalation:	LC50	658	mg/l/4h	Rat		
Acute toxicity, by inhalation:	LC50	260000	ppmV/4h	Rat		Gasses, Male
Serious eye damage/irritation:				Rabbit		Not irritant
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Aspiration hazard:						No
Symptoms:						unconsciousness , frostbite, headaches, cramps, dizziness, nausea and vomiting.
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEL	21,394	mg/l	Rat	OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developm. Tox. Screening Test)	

Butane						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by inhalation:	LC50	658	mg/l/4h	Rat		
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:					OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Germ cell mutagenicity:				Human being	OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Germ cell mutagenicity:				Rat	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Aspiration hazard:						No
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEC	21,394	mg/l	Rat	OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developm. Tox. Screening Test)	
Symptoms:						ataxia, breathing difficulties, drowsiness, unconsciousness , frostbite, disturbed heart rhythm, headaches, cramps, intoxication, dizziness, nausea and vomiting.

Propane						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by inhalation:	LC50	658	mg/l/4h	Rat		
Acute toxicity, by inhalation:	LC50	260000	ppmV/4h	Rat		Gasses, Male, Analogous conclusion
Skin corrosion/irritation:						Not irritant
Serious eye damage/irritation:						Not irritant





96

Page 10 of 16  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 01.11.2021 / 0013  
 Replacing version dated / version: 22.02.2019 / 0012  
 Valid from: 01.11.2021  
 PDF print date: 01.11.2021  
 Multi Lube S422  
 500 ml Art.: 6530 1510, Art.: 6534 1510

12.6. Endocrine disrupting properties:							Does not apply to mixtures.
12.7. Other adverse effects:							No information available on other adverse effects on the environment.
Other information:							According to the recipe, contains no AOX.

Isobutane							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.3. Bioaccumulative potential:							A notable biological accumulation potential is not to be expected (LogPow 1-3).
12.1. Toxicity to fish:	LC50	96h	27,98	mg/l			
12.1. Toxicity to algae:	EC50	96h	7,71	mg/l			
12.2. Persistence and degradability:							Readily biodegradable
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance

Butane							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	24,11	mg/l		QSAR	
12.1. Toxicity to daphnia:	LC50	48h	14,22	mg/l		QSAR	
12.3. Bioaccumulative potential:	Log Pow		2,98				A notable biological accumulation potential is not to be expected (LogPow 1-3).
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance

Propane							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.3. Bioaccumulative potential:	Log Pow		2,28				A notable biological accumulation potential is not to be expected (LogPow 1-3).
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)

13 02 05 mineral-based non-chlorinated engine, gear and lubricating oils

16 05 04 gases in pressure containers (including halons) containing hazardous substances

Recommendation:

GB

Page 11 of 16  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 01.11.2021 / 0013  
 Replacing version dated / version: 22.02.2019 / 0012  
 Valid from: 01.11.2021  
 PDF print date: 01.11.2021  
 Multi Lube S422  
 500 ml Art.: 6530 1510, Art.: 6534 1510

Sewage disposal shall be discouraged.  
 Pay attention to local and national official regulations.  
 E.g. suitable incineration plant.  
 Do not dispose of with household waste.

**For contaminated packing material**

Pay attention to local and national official regulations.  
 15 01 04 metallic packaging  
 Do not perforate, cut up or weld uncleaned container.

**SECTION 14: Transport information**

**General statements**

14.1. UN number or ID number: 1950

**Transport by road/by rail (ADR/RID)**

14.2. UN proper shipping name:  
 UN 1950 AEROSOLS  
 14.3. Transport hazard class(es): 2.1  
 14.4. Packing group: -  
 Classification code: 5F  
 LQ: 1 L  
 14.5. Environmental hazards: environmentally hazardous  
 Tunnel restriction code: D



**Transport by sea (IMDG-code)**

14.2. UN proper shipping name:  
 AEROSOLS (NAPHTHA (PETROLEUM))  
 14.3. Transport hazard class(es): 2.1  
 14.4. Packing group: -  
 EmS: F-D, S-U  
 Marine Pollutant: Yes  
 14.5. Environmental hazards: environmentally hazardous



**Transport by air (IATA)**

14.2. UN proper shipping name:  
 Aerosols, flammable  
 14.3. Transport hazard class(es): 2.1  
 14.4. Packing group: -  
 14.5. Environmental hazards: Not applicable



**14.6. Special precautions for user**

Persons employed in transporting dangerous goods must be trained.  
 All persons involved in transporting must observe safety regulations.  
 Precautions must be taken to prevent damage.

**14.7. Maritime transport in bulk according to IMO instruments**

Freighted as packaged goods rather than in bulk, therefore not applicable.  
 Minimum amount regulations have not been taken into account.  
 Danger code and packing code on request.  
 Comply with special provisions.

**SECTION 15: Regulatory information**

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

Observe restrictions:  
 Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)!  
 Comply with trade association/occupational health regulations.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others may also need to be considered according to storage, handling etc.):

Hazard categories	Notes to Annex I	Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Lower-tier requirements	Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Upper-tier requirements
E2		200	500

GB

Page 12 of 16  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 01.11.2021 / 0013  
 Replacing version dated / version: 22.02.2019 / 0012  
 Valid from: 01.11.2021  
 PDF print date: 01.11.2021  
 Multi Lube S422  
 500 ml Art.: 6530 1510, Art.: 6534 1510

P3a	11.1	150 (netto)	500 (netto)
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The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 2 - This product contains the substances listed below:

Entry Nr	Dangerous substances	Notes to Annex I	Qualifying quantity (tonnes) for the application of - Lower-tier requirements	Qualifying quantity (tonnes) for the application of - Upper-tier requirements
18	Liquefied flammable gases, Category 1 or 2 (including LPG) and natural gas	19	50	200

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Directive 2010/75/EU (VOC): 542,6 g/l

### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

## SECTION 16: Other information

Revised sections: 1-16  
 Employee training in handling dangerous goods is required.  
 These details refer to the product as it is delivered.  
 Employee instruction/training in handling hazardous materials is required.

### Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
Skin Irrit. 2, H315	Classification according to calculation procedure.
Asp. Tox. 1, H304	Classification according to calculation procedure.
STOT SE 3, H336	Classification according to calculation procedure.
Aquatic Chronic 2, H411	Classification according to calculation procedure.
Aerosol 1, H222	Classification based on test data.
Aerosol 1, H229	Classification based on test data.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

H225 Highly flammable liquid and vapour.  
 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.  
 H220 Extremely flammable gas.

Skin Irrit. — Skin irritation  
 Asp. Tox. — Aspiration hazard  
 STOT SE — Specific target organ toxicity - single exposure - narcotic effects  
 Aquatic Chronic — Hazardous to the aquatic environment - chronic  
 Aerosol — Aerosols  
 Flam. Liq. — Flammable liquid  
 Flam. Gas — Flammable gases - Flammable gas

### Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.  
 Guidelines for the preparation of safety data sheets as amended (ECHA).

Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).

Safety data sheets for the constituent substances.

ECHA Homepage - Information about chemicals.

GESTIS Substance Database (Germany).

German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany).

EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.

National Lists of Occupational Exposure Limits for each country as amended.

Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

Förch SAS  
ZAE Le Marchais Renard  
CS 50125 Montereau-sur-le-Jard  
77019 Melun Cedex  
Frankreich  
Tel. +33 1 64 14 48 48  
Fax. +33 1 64 14 48 49  
E-Mail: [info@forch.fr](mailto:info@forch.fr)  
Internet: [www.forch.fr](http://www.forch.fr)

S.C. Foerch S.R.L.  
Str. Zizinului nr.110  
500407 Brasov  
Rumänien  
Tel. +40 368 408192  
Fax. +40 368 408193  
E-Mail: [info@foerch.ro](mailto:info@foerch.ro)  
Internet: [www.foerch.ro](http://www.foerch.ro)

Foerch AG  
Muttenerstrasse 143  
4133 Pratteln  
Schweiz  
Tel. +41 61 8262031  
Fax. +41 61 8262039  
E-Mail: [info@foerch.ch](mailto:info@foerch.ch)  
Internet: [www.foerch.ch](http://www.foerch.ch)

Foerch Bulgaria EOOD  
475 Botevgradsko Shose Blvd.  
BG 1517 Sofia, Bulgaria  
Tel. 00359 2 981 2841  
Fax. 00359 982 10 30 86  
E-Mail: [info@foerch.bg](mailto:info@foerch.bg)

Förch d.o.o.  
Buzinska cesta 58  
10010 Zagreb  
Kroatien  
Tel. +385 1 2912900  
Fax. +385 1 2912901  
E-Mail: [info@foerch.hr](mailto:info@foerch.hr)  
internet: [www.foerch.hr](http://www.foerch.hr)

Theo Förch GmbH  
Röcklbrunnstraße 39A  
5020 Salzburg  
Österreich  
Tel. +43 662 875574-0  
Fax +43 662 878677-21  
Verkauf Tel. +43 662 875574-900  
Verkauf Fax +43 662 875574-30  
E-Mail: [info@foerch.at](mailto:info@foerch.at)  
Internet: [www.foerch.at](http://www.foerch.at)

Förch Componentes para Taller S.L.  
Camino de San Antón, S/N  
18102 Ambroz (Granada)  
Spanien  
Tel. +34 958 40 17 76  
Fax. +34 958 40 17 87  
E-Mail: [info@forch.es](mailto:info@forch.es)  
Internet: [www.forch.es](http://www.forch.es)

Förch A/S  
Hagemannsvej 3  
8600 Silkeborg  
Dänemark  
Tel. +45 86 823711  
Fax. +45 86 800617  
E-Mail: [info@foerch.dk](mailto:info@foerch.dk)  
Internet: [www.foerch.dk](http://www.foerch.dk)

Lhomme Tools & Fasteners BV  
Seinhuisstraat 5 B4  
Poort 0331  
3600 Genk  
Belgien  
Tel. +32 89 71 66 61  
E-Mail: [info@lhommetools.be](mailto:info@lhommetools.be)  
Internet: [www.lhommetools.be](http://www.lhommetools.be)

Ziebe Limited  
7 Century Court, Westcott,  
Aylesbury, Bucks, HP18 0XP (UK)  
Grossbritannien  
Tel +44 12 96 65 52 82  
E-Mail: [sales@ziebe.co.uk](mailto:sales@ziebe.co.uk)  
Internet: [www.ziebe.co.uk](http://www.ziebe.co.uk)

Förch Polska Sp. z o.o  
Mikdyrzecze Górne 379  
43-392 K/Bielska-Bialej  
Polen  
Tel. +48 338196000  
Fax. +48 338158548  
E-Mail: [info@forch.pl](mailto:info@forch.pl)  
Internet: [www.forch.pl](http://www.forch.pl)

Vardalis SM P.C.  
Ethnikis Antistasis 62  
57007 Chalkidona-Thessaloniki  
Griechenland  
Tel. +30 23910 21222  
Fax. +30 23910 21223  
E-Mail: [info@forch.gr](mailto:info@forch.gr)  
Internet: [www.forch.gr](http://www.forch.gr)

Förch Kereskedelmi Kft  
Börgöndi út 14  
8000 Székesfehérvár  
Ungarn  
Tel. +36 22 348348  
Fax. +36 22 348355  
E-Mail: [info@foerch.hu](mailto:info@foerch.hu)  
Internet: [www.foerch.hu](http://www.foerch.hu)

Förch S.r.l.  
Via Antonio Stradivari 4  
39100 Bolzano (BZ)  
Italien  
Tel: +39 0471 204330  
Fax: +39 0471 204290  
E-Mail: [info@forch.it](mailto:info@forch.it)  
Internet: [www.forch.it](http://www.forch.it)

Förch Nederland BV  
Twentepoort Oost 51  
7609 RG Almelo  
Niederlande  
Tel. +31 85 77 32 420  
E-Mail: [info@foerch.nl](mailto:info@foerch.nl)  
Internet: [www.foerch.nl](http://www.foerch.nl)

Page 14 of 16  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 01.11.2021 / 0013  
 Replacing version dated / version: 22.02.2019 / 0012  
 Valid from: 01.11.2021  
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 Multi Lube S422  
 500 ml Art.: 6530 1510, Art.: 6534 1510

AB varahlutir ehf  
 Funahöfði 9  
 110 Reykjavík  
 Tel. +354 567 6020  
 E-mail: ab@ab.is  
 Internet: www.ab.is

Förch Slovensko s.r.o.  
 Rosinská cesta 8  
 010 08 Žilina  
 Slowakei  
 Tel +421 41 5002454  
 E-Mail: info@forch.sk  
 Internet: www.forch.sk

Förch Sverige AB  
 Brännarevägen 1  
 151 55 Södertälje  
 Schweden  
 Tel. +46 855089264  
 E-mail: info@foerch.se  
 Internet: www.foerch.se

Förch, s.r.o.  
 Dopravní 1314/1  
 104 00 Praha 10 – Uhřetínives  
 Tschechien  
 Tel. +420 271 001 984-9  
 E-Mail: info@foerch.cz  
 Internet: www.foerch.cz

FORCH d.o.o.  
 Ljubljanska cesta 51A  
 1236 Trzin  
 Slowenien  
 Tel. +386 1 2442490  
 Fax. +386 1 2442492  
 E-Mail: info@foerch.si  
 Internet: www.foerch.si

Forch Australia  
 2 Forward Street  
 Gngangara WA 6077  
 Tel. +61 (08) 9303 9113  
 Fax. +61 (08) 9303 9114  
 Emergency telephone: +614 13 550 330  
 Email : sales@forch.com.au  
 Internet: www.forch.com.au

Troscoe Ltd  
 Unit 6, 13 Highbrook Drive  
 East Tamaki 2013, New Zealand  
 Tel: +64 21 081 30780 / +64 21 024 05583  
 Email:sales@forchnz.co.nz  
 Internet: www.forchnz.co.nz

Förch Portugal Lda  
 Centro Empresarial Sintra-Estoril III  
 Rua Pé de Mouro, N.º 33, Armazém J  
 2710-335 Sintra  
 Portugal  
 Tel. +351 917314442  
 E-Mail: info@forch.pt  
 Internet: www.forch.pt

Trigers SIA  
 Straupes iela 3  
 1073 Riga  
 Lettland  
 Tel. +371 6 7 90 25 15  
 Fax. +371 67 90 24 96  
 E-Mail: triggers@trigers.lv  
 Internet: www.trigers.lv

Förch Otom.Ins.ve San.Ürün.Paz.Ltd.Sti.  
 Haramidere Mevkii Beysan Sanayi  
 Sitesi Birlik Caddesi No:6/3  
 34524 Beylikdüzü / Istanbul  
 Türkei  
 Tel. +90 (0)212 422 8744-45  
 Fax. +90 (0)212 422 8788  
 E-Mail: info@forch.com.tr  
 Internet: www.forch.com.tr

Total Consumables Ltd  
 Coolnafearagh  
 Monasterevin  
 Co. Kildare  
 W34 TX29  
 Irland  
 Tel. +353871271473

Venus Arma d.o.o.  
 Partner Theo Förch GmbH & Co. KG  
 Batajnicketi drum 18a  
 11080 Zemun  
 Republika Srbija  
 Tel. +381 11 407-20-91  
 Fax. +381 11 407-20-91  
 E-Mail: office@foerch.rs  
 Internet: www.foerch.rs

### Any abbreviations and acronyms used in this document:

acc., acc. to according, according to  
 ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 AOX Adsorbable organic halogen compounds  
 approx. approximately  
 Art., Art. no. Article number  
 ASTM ASTM International (American Society for Testing and Materials)  
 ATE Acute Toxicity Estimate  
 BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)  
 BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)  
 BCF Bioconcentration factor  
 BSEF The International Bromine Council  
 bw body weight  
 CAS Chemical Abstracts Service  
 CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)  
 CMR carcinogenic, mutagenic, reproductive toxic  
 DMEL Derived Minimum Effect Level  
 DNEL Derived No Effect Level  
 DOC Dissolved organic carbon

Page 15 of 16  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 01.11.2021 / 0013  
 Replacing version dated / version: 22.02.2019 / 0012  
 Valid from: 01.11.2021  
 PDF print date: 01.11.2021  
 Multi Lube S422  
 500 ml Art.: 6530 1510, Art.: 6534 1510

dw dry weight  
 e.g. for example (abbreviation of Latin 'exempli gratia'), for instance  
 EbCx, EyCx, Eblx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants)  
 EC European Community  
 ECHA European Chemicals Agency  
 ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect  
 EEC European Economic Community  
 EINECS European Inventory of Existing Commercial Chemical Substances  
 ELINCS European List of Notified Chemical Substances  
 EN European Norms  
 EPA United States Environmental Protection Agency (United States of America)  
 ErCx, EμCx, Erlx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants)  
 etc. et cetera  
 EU European Union  
 EVAL Ethylene-vinyl alcohol copolymer  
 Fax. Fax number  
 gen. general  
 GHS Globally Harmonized System of Classification and Labelling of Chemicals  
 GWP Global warming potential  
 Koc Adsorption coefficient of organic carbon in the soil  
 Kow octanol-water partition coefficient  
 IARC International Agency for Research on Cancer  
 IATA International Air Transport Association  
 IBC (Code) International Bulk Chemical (Code)  
 IMDG-code International Maritime Code for Dangerous Goods  
 incl. including, inclusive  
 IUCLID International Uniform Chemical Information Database  
 IUPAC International Union for Pure Applied Chemistry  
 LC50 Lethal Concentration to 50 % of a test population  
 LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)  
 Log Koc Logarithm of adsorption coefficient of organic carbon in the soil  
 Log Kow, Log Pow Logarithm of octanol-water partition coefficient  
 LQ Limited Quantities  
 MARPOL International Convention for the Prevention of Marine Pollution from Ships  
 n.a. not applicable  
 n.av. not available  
 n.c. not checked  
 n.d.a. no data available  
 NIOSH National Institute for Occupational Safety and Health (USA)  
 NLP No-longer-Polymer  
 NOEC, NOEL No Observed Effect Concentration/Level  
 OECD Organisation for Economic Co-operation and Development  
 org. organic  
 OSHA Occupational Safety and Health Administration (USA)  
 PBT persistent, bioaccumulative and toxic  
 PE Polyethylene  
 PNEC Predicted No Effect Concentration  
 ppm parts per million  
 PVC Polyvinylchloride  
 REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)  
 REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.  
 RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)  
 SVHC Substances of Very High Concern  
 Tel. Telephone  
 TOC Total organic carbon  
 UN RTDG United Nations Recommendations on the Transport of Dangerous Goods  
 VOC Volatile organic compounds  
 vPvB very persistent and very bioaccumulative  
 wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.



98

Page 16 of 16  
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revision date / version: 01.11.2021 / 0013  
Replacing version dated / version: 22.02.2019 / 0012  
Valid from: 01.11.2021  
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No responsibility.

These statements were made by:

**Chemical Check GmbH, Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax:  
+49 5233 94 17 90**

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