

Page 1 of 22 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0014 Replacing version dated / version: 09.10.2019 / 0013 Valid from: 01.11.2021 PDF print date: 01.11.2021 High Performance Lubricant 500 ML Art.: 9003918

> 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

High Performance Lubricant 500 ML Art.: 9003918

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

BTI Befestigungstechnik GmbH & Co. KG Salzstr. 51 74653 Ingelfingen Tel.: +49 7940 141 141 Fax: +49 7940 141 9141 Email: info@bti.de Homepage: www.bti.de

Qualified person's e-mail address: info@chemical-check.de, 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:

Telephone number of the company in case of emergencies: +49 (0) 700 / 24 112 112 (BRC) +1 872 5888271 (BRC)

SECTION 2: Hazards identification

2.1 Classification of	f the substance or mixtur	e
Classification accou	rding to Regulation (EC)	1272/2008 (CLP)
Hazard class	Hazard category	Hazard statement
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



Page 2 of 22 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0014 Replacing version dated / version: 09.10.2019 / 0013 Valid from: 01.11.2021 PDF print date: 01.11.2021 High Performance Lubricant 500 ML Art.: 9003918

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



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.

P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children. 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 vapours or spray. P273-Avoid release to the environment.

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

P405-Store locked up. P410+P412-Protect from sunlight. Do not expose to temperatures exceeding 50 °C. P501-Dispose of contents / container to an approved waste disposal facility.

EUH066-Repeated exposure may cause skin dryness or cracking.

Without adequate ventilation, formation of explosive mixtures may be possible.

Pentane

Hydrocarbons, C6, isoalkanes, <5% n-hexane

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 %).

SECTION 3: Composition/information on ingredients

3.1 Substances	
n.a.	
3.2 Mixtures	

Pentane	Substance for which an EU exposure limit
	value applies.
Registration number (REACH)	
Index	601-006-00-1
EINECS, ELINCS, NLP, REACH-IT List-No.	203-692-4
CAS	109-66-0
content %	25-50



Page 3 of 22
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0014
Replacing version dated / version: 09.10.2019 / 0013
Valid from: 01.11.2021
PDF print date: 01.11.2021
High Performance Lubricant 500 ML
Art.: 9003918

Classification according to Regulation (EC) 1272/2008	EUH066
(CLP), M-factors	Flam. Liq. 2, H225
	STOT SE 3, H336
	Asp. Tox. 1, H304
	Aquatic Chronic 2, H411

Hydrocarbons, C6, isoalkanes, <5% n-hexane	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	931-254-9
CAS	(64742-49-0)
content %	5-10
Classification according to Regulation (EC) 1272/2008	Flam. Liq. 2, H225
(CLP), M-factors	Skin Irrit. 2, H315
	STOT SE 3, H336
	Asp. Tox. 1, H304
	Aquatic Chronic 2, H411

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.

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

Remove contact lenses.

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

Ingestion

Typically no exposure pathway.

Rinse the mouth thoroughly with water.

Do not induce vomiting. Consult doctor immediately.

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. 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

Symptomatic treatment.



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Page 4 of 22 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0014 Replacing version dated / version: 09.10.2019 / 0013 Valid from: 01.11.2021 PDF print date: 01.11.2021 High Performance Lubricant 500 ML Art.: 9003918

5.1 Extinguishing media

Suitable extinguishing media Extinction powder CO₂ Water jet spray Large fire: Alcohol resistant foam Water jet spray 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: Oxides of carbon Oxides of phosphorus Oxides of nitrogen Danger of bursting (explosion) when heated Explosive vapour/air or gas/air mixtures. 5.3 Advice for firefighters For personal protective equipment see Section 8. In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply. According to size of fire 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.

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 from entering drainage system.

If accidental entry into drainage system occurs, inform responsible authorities.

6.3 Methods and material for containment and cleaning up

If spray or gas escapes, ensure ample fresh air is available.

Active substance:



Page 5 of 22 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0014 Replacing version dated / version: 09.10.2019 / 0013 Valid from: 01.11.2021 PDF print date: 01.11.2021 High Performance Lubricant 500 ML Art.: 9003918

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. Take measures against electrostatic charging, if appropriate. 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. 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 storage conditions. Observe special regulations for aerosols! Do not store with flammable or self-igniting materials. Keep protected from direct sunlight and temperatures over 50°C. Store in a well ventilated place. Store cool. 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

œ	Chemical Name	Pentane			Content %:25-50
W	EL-TWA: 1800 mg/m3	(600 ppm)	WEL-STEL:	 	
()	VEL), 3000 mg/m3 (1000	ppm) (EU)			



Page 6 of 22 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0014 Replacing version dated / version: 09.10.2019 / 0013 Valid from: 01.11.2021 PDF print date: 01.11.2021 High Performance Lubricant 500 ML Art.: 9003918

Monitoring procedures:	- - - -	Draeger - Pentane 100/a (6' Compur - KITA-113 SB(C) DFG (D) (Loesungsmittelg mixtures 1) - 1998, 2002 NIOSH 1500 (HYDROCA NIOSH 2549 (VOLATILE (SCREENING)) - 1996) (549 368) emische Meth. Nr. 1 RBONS, BP 36°-21	6 °C) - OUND	2003
Chemical Name Hy	drocarbon	ıs, C6, isoalkanes, <5% n-he	exane		Content %:5- 10
WEL-TWA: 800 mg/m3		WEL-STEL:			
Monitoring procedures:	-	Draeger - Hydrocarbons 0,			
	-	Draeger - Hydrocarbons 2/a	a (81 03 581)		
	-	Compur - KITA-187 S (55)	1 174)		
BMGV:			Other information:	: (OE	L acc. to
			RCP-method, para	graphs	84-87, EH40)
Chemical Name Bu	itane				Content %:
WEL-TWA: 600 ppm (1450 mg	g/m3)		(1810 mg/m3)		
Monitoring procedures:	-	Compur - KITA-221 SA (5	49 459)		
	-	OSHA PV2010 (n-Butane)			
BMGV:			Other information:		
Chemical Name Oil	l mist, min	eral			Content %:
WEL-TWA: 5 mg/m3 (Mineral	l oil,	WEL-STEL:			
excluding metal working fluids, A	ACGIH)				
Monitoring procedures:	-	Draeger - Oil Mist 1/a (67 3	33 031)		
BMGV:			Other information:		
Chemical Name Pro	opane				Content %:
WEL-TWA: 1000 ppm (ACGII		WEL-STEL:			
Monitoring procedures:		Compur - KITA-125 SA (5	49 954)		
	-				
	-	OSHA PV2077 (Propane) -			

Pentane						
Area of application	Exposure route /	Effect on health	Descript	Value	Unit	Note
	Environmental		or			
	compartment					
	Environment - water,		PNEC	880	µg/l	
	sporadic					
	(intermittent) release					
	Environment -		PNEC	230	µg/l	
	freshwater					
	Environment - marine		PNEC	230	µg/l	
	Environment -		PNEC	3600	µg/l	
	sewage treatment					
	plant					
	Environment -		PNEC	1,2	mg/kg	
	sediment, freshwater				dw	



Page 7 of 22 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0014 Replacing version dated / version: 09.10.2019 / 0013 Valid from: 01.11.2021 PDF print date: 01.11.2021 High Performance Lubricant 500 ML Art.: 9003918

	Environment - sediment, marine		PNEC	1,2	mg/kg dw	
	Environment - soil		PNEC	0,55	mg/kg dw	
Consumer	Human - oral	Long term, systemic effects	DNEL	214	mg/kg bw/d	
Consumer	Human - dermal	Long term, systemic effects	DNEL	214	mg/kg bw/d	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	643	mg/m3	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	3000	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	432	mg/kg bw/d	

Hydrocarbons, C6, iso	alkanes, <5% n-hexane	:				
Area of application	Exposure route / Environmental compartment	Effect on health	Descript or	Value	Unit	Note
Consumer	Human - oral	Long term, systemic effects	DNEL	1301	mg/kg bw/day	
Consumer	Human - dermal	Long term, systemic effects	DNEL	1377	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	1131	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	13964	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	5306	mg/m3	

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). (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



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Page 8 of 22 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0014 Replacing version dated / version: 09.10.2019 / 0013 Valid from: 01.11.2021 PDF print date: 01.11.2021 High Performance Lubricant 500 ML Art.: 9003918

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: Chemical resistant protective gloves (EN ISO 374). If applicable Protective nitrile gloves (EN ISO 374). Minimum layer thickness in mm: >= 0,4 Permeation time (penetration time) in minutes: >= 480 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. Protective hand cream recommended.

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

Respiratory protection: If OES or MEL is exceeded. Filter A P2 (EN 14387), code colour brown, white Observe wearing time limitations for respiratory protection equipment.

Thermal hazards: Not applicable

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.



Page 9 of 22 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0014 Replacing version dated / version: 09.10.2019 / 0013 Valid from: 01.11.2021 PDF print date: 01.11.2021 High Performance Lubricant 500 ML Art.: 9003918

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

9.1 Information on basic physical and chemical prop	er ties
Physical state:	Aerosol. Active substance: liquid.
Colour:	According to specification
Odour:	Characteristic
Melting point/freezing point:	There is no information available on this parameter.
Boiling point or initial boiling point and boiling range:	-44 °C
Flammability:	Yes
Lower explosion limit:	1,4 Vol-%
Upper explosion limit:	10,9 Vol-%
Flash point:	<0 °C
Auto-ignition temperature:	200 °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:	2,7 bar (20°C)
Density and/or relative density:	0,65 g/cm3
Relative vapour density:	Does not apply to aerosols.
Particle characteristics:	Does not apply to aerosols.
9.2 Other information	
Explosives:	Product is not explosive. Possible build up of explosive/highly flammable vapour/air mixture.
Oxidising liquids:	There is no information available on this parameter.
Solvents content:	78 %

SECTION 10: Stability and reactivity

10.1 Reactivity

The product has not been tested. **10.2 Chemical stability** Stable with proper storage and handling. **10.3 Possibility of hazardous reactions** No dangerous reactions are known. **10.4 Conditions to avoid** See also section 7. Heating, open flame, ignition sources



Page 10 of 22 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0014 Replacing version dated / version: 09.10.2019 / 0013 Valid from: 01.11.2021 PDF print date: 01.11.2021 High Performance Lubricant 500 ML Art.: 9003918

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 section 5.2
No decomposition when used as directed.

SECTION 11: Toxicological information

High Performance Lubr	Possibly more information on health effects, see Section 2.1 (classification). High Performance Lubricant 500 ML						
Art.: 9003918							
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes	
·	nt						
Acute toxicity, by oral						n.d.a.	
route:							
Acute toxicity, by						n.d.a.	
dermal route:							
Acute toxicity, by						n.d.a.	
inhalation:							
Skin corrosion/irritation:						n.d.a.	
Serious eye						n.d.a.	
damage/irritation:							
Respiratory or skin						n.d.a.	
sensitisation:							
Germ cell mutagenicity:						n.d.a.	
Carcinogenicity:						n.d.a.	
Reproductive toxicity:						n.d.a.	
Specific target organ						n.d.a.	
toxicity - single							
exposure (STOT-SE):							
Specific target organ						n.d.a.	
toxicity - repeated							
exposure (STOT-RE):							
Aspiration hazard:						n.d.a.	
Symptoms:						n.d.a.	

Pentane						
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Acute toxicity, by oral	LD50	>16000	mg/kg	Rat		
route:						
Acute toxicity, by oral	LD50	5000	mg/kg	Mouse		
route:						
Acute toxicity, by	LD50	>2000	mg/kg	Rabbit		
dermal route:						
Acute toxicity, by	LC50	>100	mg/l/4h	Rat		
inhalation:						



Page 11 of 22 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0014 Replacing version dated / version: 09.10.2019 / 0013 Valid from: 01.11.2021 PDF print date: 01.11.2021 High Performance Lubricant 500 ML Art.: 9003918

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Skin corrosion/irritation:				Mild irritant,
				Repeated
				exposure
				may cause
				skin dryness
				or cracking.
Serious eye				Mild irritant
damage/irritation:				
Respiratory or skin				Not
sensitisation:				sensitizising
Germ cell mutagenicity:			OECD 471	Negative
			(Bacterial Reverse	_
			Mutation Test)	
Aspiration hazard:				Yes
Symptoms:				drowsiness,
				vomiting,
				cramps,
				drowsiness,
				mucous
				membrane
				irritation

Hydrocarbons, C6, isoalkanes, <5% n-hexane								
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes		
	nt							
Acute toxicity, by oral	LD50	>16750	mg/kg	Rat	OECD 401 (Acute			
route:					Oral Toxicity)			
Acute toxicity, by	LD50	>3350	mg/kg	Rabbit	OECD 402 (Acute			
dermal route:					Dermal Toxicity)			
Acute toxicity, by	LC50	259354	mg/m3	Rat	OECD 403 (Acute	Vapours		
inhalation:					Inhalation			
					Toxicity)			
Skin corrosion/irritation:						Skin Irrit. 2		
Respiratory or skin				Mouse	OECD 429 (Skin	No (skin		
sensitisation:					Sensitisation -	contact)		
					Local Lymph			
					Node Assay)			
Aspiration hazard:						Asp. Tox. 1		



Page 12 of 22 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0014 Replacing version dated / version: 09.10.2019 / 0013 Valid from: 01.11.2021 PDF print date: 01.11.2021 High Performance Lubricant 500 ML Art.: 9003918

Symptoms:			drowsiness,
			unconsciousn
			ess,
			heart/circulat
			ory
			disorders,
			headaches,
			cramps,
			drowsiness,
			mucous
			membrane
			irritation,
			dizziness,
			nausea and
			vomiting.

Butane						
Toxicity / effect	Endpoi nt	Value	Unit	Organism	Test method	Notes
Acute toxicity, by inhalation:	LC50	658	mg/l/4h	Rat		
Germ cell mutagenicity:				Salmonella typhimuri um	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



Page 13 of 22 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0014 Replacing version dated / version: 09.10.2019 / 0013 Valid from: 01.11.2021 PDF print date: 01.11.2021 High Performance Lubricant 500 ML Art.: 9003918

	1	ř.		1		
Symptoms:						ataxia,
						breathing
						difficulties,
						drowsiness,
						unconsciousn
						ess,
						frostbite,
						disturbed
						heart
						rhythm,
						headaches,
						cramps,
						intoxication,
						dizziness,
						nausea and
						vomiting.
Specific target organ	NOAEL	21,394	mg/l	Rat	OECD 422	
toxicity - repeated					(Combined	
exposure (STOT-RE),					Repeated Dose	
inhalat.:					Tox. Study with	
					the	
					Reproduction/Dev	
					elopm. Tox.	
					Screening Test)	

Propane						
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Acute toxicity, by	LC50	658	mg/l/4h	Rat		
inhalation:						
Acute toxicity, by	LC50	260000	ppmV/	Rat		Gasses,
inhalation:			4h			Male,
						Analogous
						conclusion
Skin corrosion/irritation:						Not irritant
Serious eye						Not irritant
damage/irritation:						
Germ cell mutagenicity:					OECD 473 (In	Negative
					Vitro Mammalian	
					Chromosome	
					Aberration Test)	
Germ cell mutagenicity:				Salmonella	OECD 471	Negative
				typhimuri	(Bacterial Reverse	
				um	Mutation Test)	



Page 14 of 22 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0014 Replacing version dated / version: 09.10.2019 / 0013 Valid from: 01.11.2021 PDF print date: 01.11.2021 High Performance Lubricant 500 ML Art.: 9003918

Reproductive toxicity	NOAEC	21,641	mg/l		OECD 422	
(Developmental					(Combined	
toxicity):					Repeated Dose	
					Tox. Study with	
					the	
					Reproduction/Dev	
					elopm. Tox.	
					Screening Test)	
Aspiration hazard:						No
Symptoms:						breathing
						difficulties,
						unconsciousn
						ess,
						frostbite,
						headaches,
						cramps,
						mucous
						membrane
						irritation,
						dizziness,
						nausea and
						vomiting.
Specific target organ	NOAEL	7,214	mg/l	Rat	OECD 422	
toxicity - repeated					(Combined	
exposure (STOT-RE),					Repeated Dose	
inhalat.:					Tox. Study with	
					the	
					Reproduction/Dev	
					elopm. Tox.	
					Screening Test)	
Specific target organ	LOAEL	21,641	mg/l	Rat	OECD 422	
toxicity - repeated		-			(Combined	
exposure (STOT-RE),					Repeated Dose	
inhalat.:					Tox. Study with	
					the	
					Reproduction/Dev	
					elopm. Tox.	
					Screening Test)	

11.2. Information on other hazards High Performance Lubricant 500 ML Art.: 9003918							
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes	
	nt						
Endocrine disrupting						Does not	
properties:						apply to	
						mixtures.	



Page 15 of 22 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0014 Replacing version dated / version: 09.10.2019 / 0013 Valid from: 01.11.2021 PDF print date: 01.11.2021 High Performance Lubricant 500 ML Art.: 9003918

Other information:	No other
	relevant
	information
	available on
	adverse
	effects on
	health.

SECTION 12: Ecological information

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

High Performance	Lubricant 50	00 ML					
Art.: 9003918							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to							n.d.a.
fish:							
12.1. Toxicity to							n.d.a.
daphnia:							
12.1. Toxicity to							n.d.a.
algae:							
12.2. Persistence							n.d.a.
and degradability:							
12.3.							n.d.a.
Bioaccumulative							
potential:							
12.4. Mobility in							n.d.a.
soil:							
12.5. Results of							n.d.a.
PBT and vPvB							
assessment							
12.6. Endocrine							Does not
disrupting							apply to
properties:							mixtures.
12.7. Other							No
adverse effects:							information
							available on
							other
							adverse
							effects on
							the
							environment.

Pentane							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.5. Results of							No PBT
PBT and vPvB							substance,
assessment							No vPvB
							substance



Page 16 of 22 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0014 Replacing version dated / version: 09.10.2019 / 0013 Valid from: 01.11.2021 PDF print date: 01.11.2021 High Performance Lubricant 500 ML Art.: 9003918

12.1. Toxicity to	LC50	96h	9,87	mg/l	Salmo	
fish:					gairdneri	
12.1. Toxicity to	LC50	96h	9,87	mg/l	Oncorhynchus	
fish:					mykiss	
12.1. Toxicity to	LC50	96h	9,99	mg/l	Lepomis	
fish:					macrochirus	
12.1. Toxicity to	EC50	48h	9,74	mg/l	Daphnia	
daphnia:					magna	
12.2. Persistence		8d	70	%		
and degradability:						
12.3.	Log Pow		3,39			calculated
Bioaccumulative						value
potential:						

Hydrocarbons, C6	Hydrocarbons, C6, isoalkanes, <5% n-hexane						
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	NOEC/NO EL	28d	4,09	mg/l	Oncorhynchus mykiss	QSAR	
12.1. Toxicity to fish:	EC50	96h	18,27	mg/l	Oncorhynchus mykiss		
12.1. Toxicity to daphnia:	NOEC/NO EL	21d	7,14	mg/l	Daphnia magna	QSAR	
12.1. Toxicity to daphnia:	LC50	48h	3,87	mg/l	Daphnia magna		Analogous conclusion
12.1. Toxicity to algae:	EC50	72h	13,56	mg/l	Pseudokirchne riella subcapitata	QSAR	
12.1. Toxicity to algae:	ErL50	72h	55	mg/l	Pseudokirchne riella subcapitata	OECD 201 (Alga, Growth Inhibition Test)	Analogous conclusion
12.2. Persistence and degradability:		28d	98	%		OECD 301 F (Ready Biodegradabil ity - Manometric Respirometry Test)	Readily biodegradabl e (Analogous conclusion), Analogous conclusion
12.3. Bioaccumulative potential:	Log Kow		4				
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	LC50	96h	24,11	mg/l		QSAR	
fish:				-			



Page 17 of 22 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0014 Replacing version dated / version: 09.10.2019 / 0013 Valid from: 01.11.2021 PDF print date: 01.11.2021 High Performance Lubricant 500 ML Art.: 9003918

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.	Log Pow		2,28				A notable
Bioaccumulative							biological
potential:							accumulation
							potential is
							not to be
							expected
							(LogPow 1-
							3).
12.5. Results of							No PBT
PBT and vPvB							substance,
assessment							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)

07 06 99 wastes not otherwise specified

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

Pay attention to local and national official regulations.

Take full aerosol cans to problem waste collection.

Take emptied aerosol cans to valuable material collection.

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.

Residues may present a risk of explosion.



Page 18 of 22 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0014 Replacing version dated / version: 09.10.2019 / 0013 Valid from: 01.11.2021 PDF print date: 01.11.2021 High Performance Lubricant 500 ML Art.: 9003918

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:	-
1950 Druckgaspackungen	32
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 (PENTANES)	
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	t 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 in	nstruments
Freighted as packaged goods rather than in bulk, therefo	re not applicable.
Minimum amount regulations have not been taken into a	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.



Page 19 of 22 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0014 Replacing version dated / version: 09.10.2019 / 0013 Valid from: 01.11.2021 PDF print date: 01.11.2021 High Performance Lubricant 500 ML Art.: 9003918

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.):

	0 0/	<u> </u>	
Hazard categories	Notes to Annex I	Qualifying quantity	Qualifying quantity
		(tonnes) of dangerous	(tonnes) of dangerous
		substances as referred to	substances as referred to
		in Article 3(10) for the	in Article 3(10) for the
		application of - Lower-	application of - Upper-
		tier requirements	tier requirements
E2		200	500
P3a	11.1	150 (netto)	500 (netto)

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:

Bliedrive 2012/10/200 (beveso iii); filliex i, f are 2 - fills product contains the substances listed below.						
Entry Nr	Dangerous	Notes to Annex I	Qualifying quantity	Qualifying quantity		
	substances		(tonnes) for the	(tonnes) for the		
			application of -	application of -		
			Lower-tier	Upper-tier		
			requirements	requirements		
18	Liquefied	19	50	200		
	flammable gases,					
	Category 1 or 2					
	(including LPG)					
	and natural gas					

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):

78 %

Observe incident regulations.

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)	Evaluation method used
No. 1272/2008 (CLP)	
STOT SE 3, H336	Classification according to calculation procedure.
Aquatic Chronic 2, H411	Classification according to calculation procedure.
Aerosol 1, H222	Classification according to calculation procedure.



Page 20 of 22 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0014 Replacing version dated / version: 09.10.2019 / 0013 Valid from: 01.11.2021 PDF print date: 01.11.2021 High Performance Lubricant 500 ML Art.: 9003918

Aerosol 1, H229

Classification based on the form or physical state.

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. EUH066 Repeated exposure may cause skin dryness or cracking.

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

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.

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



Page 21 of 22 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0014 Replacing version dated / version: 09.10.2019 / 0013 Valid from: 01.11.2021 PDF print date: 01.11.2021 High Performance Lubricant 500 ML Art.: 9003918 body weight hw 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 dw dry weight for example (abbreviation of Latin 'exempli gratia'), for instance e.g. 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 United States Environmental Protection Agency (United States of America) EPA ErCx, $E\mu Cx$, 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 including, inclusive incl. **IUCLID** International Uniform Chemical Information Database IUPACInternational 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 Limited Quantities LQ MARPOL International Convention for the Prevention of Marine Pollution from Ships not applicable n.a. not available n.av. not checked n.c. 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



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Page 22 of 22 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0014 Replacing version dated / version: 09.10.2019 / 0013 Valid from: 01.11.2021 PDF print date: 01.11.2021 High Performance Lubricant 500 ML Art.: 9003918

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. No responsibility.