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> 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 Sector of use [SU]: SU 0 - Other SU 1 - Agriculture, forestry, fishery SU19 - Building and construction work SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen) Chemical product category [PC]: PC24 - Lubricants, greases, release products Process category [PROC]: PROC11 - Non industrial spraying **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, Germany Phone:+49 7940 141 256, Fax:+49 7940 141 9256 Stefan.Haug@bti.de, 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)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixtureClassification according to Regulation (EC) 1272/2008 (CLP)Hazard classHazard categoryHazard statementSTOT SE3H336-May cause drowsiness or dizziness.Aquatic Chronic2H411-Toxic to aquatic life with long lasting effects.Aerosol1H222-Extremely flammable aerosol.



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Aerosol

H229-Pressurised container: May burst if heated.

2.2 Label elements Labeling according to Regulation (EC) 1272/2008 (CLP)

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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 safely.

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 %).

SECTION 3: Composition/information on ingredients

3.1 Substance

n.a.

3.2 Mixture

Pentane	Substance for which an EU exposure limit value applies.
Registration number (REACH)	
Index	601-006-00-1
EINECS, ELINCS, NLP	203-692-4
CAS	109-66-0



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content %	25-50
Classification according to Regulation (EC) 1272/2008	Aquatic Chronic 2, H411
(CLP)	Asp. Tox. 1, H304
	STOT SE 3, H336
	Flam. Liq. 2, H225

Hydrocarbons, C6, isoalkanes, <5% n-hexane	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP	931-254-9 (REACH-IT List-No.)
CAS	(64742-49-0)
content %	5-10
Classification according to Regulation (EC) 1272/2008	Flam. Liq. 2, H225
(CLP)	Asp. Tox. 1, H304
	Skin Irrit. 2, H315
	STOT SE 3, H336
	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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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 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 Remove possible causes of ignition - do not smoke. Ensure sufficient supply of air. Avoid inhalation, and contact with eyes or skin. **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: 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



Content

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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

(GB)

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

Chemical Name	Pentane				%:25-50
WEL-TWA: 1800 mg/m3 ((600 ppm)	WEL-STEL:			
(WEL), 3000 mg/m3 (1000)	ppm) (EU)				
Monitoring procedures:	-	Compur - KITA-113 SB(C)) (549 368)		
	-	Draeger - Pentane 100/a (67	7 24 701)		
		DFG (D) (Loesungsmittelge	emische Meth. Nr. 1	l), DFG	(E) (Solvent
	- 1	mixtures 1) - 1998, 2002			
BMGV:			Other information	:	
⁽⁶⁸⁾ Chemical Name	Hydrocarbons	s, C6, isoalkanes, <5% n-he	xane		Content %:5- 10
WEL-TWA: 800 mg/m3		WEL-STEL:			
Monitoring procedures:	-	Draeger - Hydrocarbons 2/a	a (81 03 5 8 1)		

Draeger - Hydrocarbons 0,1%/c (81 03 571)



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Q VITA 107 Q (551	174	
- Compur - KITA-18/ S (551	· · · · · · · · · · · · · · · · · · ·	
	Other information: (WE	L acc. to
	RCP-method, EH40)	
il mist, mineral		Content %:
l oil, WEL-STEL:		
ACGIH)		
- Draeger - Oil 10/a-P (67 28	371)	
- Draeger - Oil Mist 1/a (67 3)	3 031)	
	Other information:	
congna		Content %:
*		Content 70.
(H) WEL-STEL:		
- Compur - KITA-125 SA (54	19 954)	
	Other information:	
utane		Content %:
ng/m3) WEL-STEL: 750 ppm (1810 mg/m3)	
- Compur - KITA-221 SA (54	49 459)	
	Other information:	
	mist, mineral oil, WEL-STEL: ACGIH) - - Draeger - Oil 10/a-P (67 28 - Draeger - Oil Mist 1/a (67 3 - Draeger - Oil Mist 1/a (67 3 - Draeger - Oil Mist 1/a (67 3 - Compur - KITA-125 SA (54 - Compur - KITA-125 SA (54 tane - g/m3) WEL-STEL: 750 ppm (Other information: (WE RCP-method, EH40) (WE mist, mineral oil, WEL-STEL: ACGIH) - Draeger - Oil 10/a-P (67 28 371) - Draeger - Oil Mist 1/a (67 33 031) Other information: - Draeger - Oil Mist 1/a (67 33 031) Other information: - Compur - KITA-125 SA (549 954) - Compur - KITA-125 SA (549 954)

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 (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU).
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.

8.2 Exposure controls

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

8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.



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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. BS EN 14042.

BS 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 374). If applicable Protective nitrile gloves (EN 374) Minimum layer thickness in mm: >= 0,4Permeation time (penetration time) in minutes: >= 480The 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.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.



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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

7.1 Information on basic physical and chemical properties						
Physical state:	Aerosol. Active substance: liquid.					
Colour:	According to specification					
Odour:	Characteristic					
Odour threshold:	Not determined					
pH-value:	Not determined					
Melting point/freezing point:	Not determined					
Initial boiling point and boiling range:	-44 °C					
Flash point:	<0 °C					
Evaporation rate:	Not determined					
Flammability (solid, gas):	Yes					
Lower explosive limit:	1,4 Vol-%					
Upper explosive limit:	10,9 Vol-%					
Vapour pressure:	2,7 bar (20°C)					
Vapour density (air $= 1$):	Not determined					
Density:	0,65 g/cm3					
Bulk density:	Not determined					
Solubility(ies):	Not determined					
Water solubility:	Insoluble					
Partition coefficient (n-octanol/water):	Not determined					
Auto-ignition temperature:	No					
Auto-ignition temperature:	200 °C (Ignition temperature)					
Decomposition temperature:	Not determined					
Viscosity:	Not determined					
Explosive properties:	Product is not explosive. Possible build up of					
	explosive/highly flammable vapour/air mixture.					
Oxidising properties:	Not determined					
9.2 Other information						
Miscibility:	Not determined					
Fat solubility / solvent:	Not determined					
Conductivity:	Not determined					
Surface tension:	Not determined					
Solvents content:	78 %					

SECTION 10: Stability and reactivity

10.1 ReactivityThe product has not been tested.10.2 Chemical stability



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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
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

11.1 Information on toxicological effects

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

High Performance Lubr	icant 500 N	AL.				
Art.: 9003918	1	1		I	I	
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:						



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Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit		
Acute toxicity, by inhalation:	LC50	>100	mg/l/4h	Rat		
Skin corrosion/irritation:						Mild irritant, Repeated exposure may cause skin dryness or cracking.
Serious eye damage/irritation:						Mild irritant
Respiratory or skin sensitisation:						Not sensitizising
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
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	
inhalation:					Inhalation	
					Toxicity)	
Skin corrosion/irritation:						Irritant
Respiratory or skin				Mouse	OECD 429 (Skin	No (skin
sensitisation:					Sensitisation -	contact)
					Local Lymph	
					Node Assay)	
Aspiration hazard:						Yes



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		1	
Symptoms:			drowsiness,
			unconsciousn
			ess,
			heart/circulat
			ory
			disorders,
			headaches,
			cramps,
			drowsiness,
			mucous
			membrane
			irritation,
			dizziness,
			nausea and
			vomiting.

Propane						
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Acute toxicity, by	LC50	658	mg/l/4h	Rat		
inhalation:						
Germ cell mutagenicity:					OECD 471	Negative
					(Bacterial Reverse	
					Mutation Test)	
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.

Butane						
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					



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Acute toxicity, by inhalation:	LC50	658	mg/l/4h	Rat		
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Aspiration hazard:						No
Symptoms:						ataxia, breathing difficulties, drowsiness, unconsciousn ess, frostbite, disturbed heart rhythm, headaches, cramps, intoxication, dizziness, nausea and vomiting.

SECTION 12: Ecological information

Pentane

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

High Performance	Lubricant 50)0 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. Other							n.d.a.	
adverse effects:								



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Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
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:							

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to	LC50	48h	>1	mg/l	Oryzias		Analogous
fish:					latipes		conclusion
12.1. Toxicity to	NOEC/NO	28d	4,09	mg/l	Oncorhynchus	QSAR	
fish:	EL				mykiss		
12.1. Toxicity to	EC50	48h	31,9	mg/l	Daphnia	QSAR	
daphnia:					magna		
12.1. Toxicity to	NOEC/NO	21d	7,14	mg/l	Daphnia	QSAR	
daphnia:	EL				magna		
12.1. Toxicity to	LC50	48h	3,87	mg/l	Daphnia		Analogous
daphnia:					magna		conclusion
12.1. Toxicity to	NOELR	72h	30	mg/l	Raphidocelis		
algae:					subcapitata		
12.1. Toxicity to	ErC50	72h	55	mg/l	Pseudokirchne		Analogous
algae:					riella		conclusion
					subcapitata		
12.1. Toxicity to	EC50	72h	13,56	mg/l	Pseudokirchne	QSAR	
algae:					riella		
					subcapitata		
12.2. Persistence		28d	98	%			Readily
and degradability:							biodegradab
							e
							(Analogous
							conclusion)
12.3.	Log Kow		4				
Bioaccumulative							
potential:							
12.5. Results of							No PBT
PBT and vPvB							substance,
assessment							No vPvB
							substance

Propane							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes



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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

Butane							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to	LC50	96h	24,11	mg/l		QSAR	
fish:							
12.1. Toxicity to	LC50	48h	14,22	mg/l		QSAR	
daphnia:							
12.3.	Log Pow		2,98				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



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Do not perforate, cut up or weld uncleaned container. Residues may present a risk of explosion.

SECTION 14: Transport information

General statements	
14.1. UN 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	
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	The applicable
Persons employed in transporting dangerous goods mus	t be trained
All persons involved in transporting must observe safet	
Precautions must be taken to prevent damage.	y regulations.
	DDOL and the IBC Code
14.7. Transport in bulk according to Annex II of MA	
Freighted as packaged goods rather than in bulk, therefore	
Minimum amount regulations have not been taken into	
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:



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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	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:

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: 8 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):



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Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
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.
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.

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

Any abbreviations and acronyms used in this document:

AC Article Categories according, according to acc., acc. to ACGIH American Conference of Governmental Industrial Hygienists ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road) AOEL Acceptable Operator Exposure Level AOX Adsorbable organic halogen compounds approx. approximately Art., Art. no. Article number ATE Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP) 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 BGV Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation) BHT Butylhydroxytoluol (= 2,6-Di-t-butyl-4-methyl-phenol) BMGVBiological monitoring guidance value (EH40, UK) BOD Biochemical oxygen demand BSEF Bromine Science and Environmental Forum bw body weight CAS **Chemical Abstracts Service** CEC Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants and Other Fluids CESIO Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques



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CIPACCollaborative International Pesticides Analytical Council

CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

COD Chemical oxygen demand

CTFA Cosmetic, Toiletry, and Fragrance Association

DMEL Derived Minimum Effect Level

DNEL Derived No Effect Level

DOC Dissolved organic carbon

DT50 Dwell Time - 50% reduction of start concentration

DVS Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding

and Allied Processes)

dw dry weight

e.g. for example (abbreviation of Latin 'exempli gratia'), for instance

EC European Community

ECHA European Chemicals Agency

EEA European Economic Area

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)

ERC Environmental Release Categories

ES Exposure scenario

etc. et cetera

EU European Union

EWC European Waste Catalogue

Fax. Fax number

gen. general

GHS Globally Harmonized System of Classification and Labelling of Chemicals

GWP Global warming potential

HET-CAM Hen's Egg Test - Chorionallantoic Membrane

HGWPHalocarbon Global Warming Potential

IARC International Agency for Research on Cancer

IATA International Air Transport Association

IBC Intermediate Bulk Container

IBC (Code) International Bulk Chemical (Code)

IC Inhibitory concentration

IMDG-code International Maritime Code for Dangerous Goods

incl. including, inclusive

IUCLID International Uniform Chemical Information Database

LC lethal concentration

LC50 lethal concentration 50 percent kill

LCLo lowest published lethal concentration

LD Lethal Dose of a chemical

LD50 Lethal Dose, 50% kill

LDLo Lethal Dose Low

LOAEL Lowest Observed Adverse Effect Level

LOEC Lowest Observed Effect Concentration

LOEL Lowest Observed Effect Level

LQ Limited Quantities



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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 of Occupational Safety and Health (United States of America)

NOAEC No Observed Adverse Effective Concentration

NOAEL No Observed Adverse Effect Level

NOEC No Observed Effect Concentration

NOEL No Observed Effect Level

ODP Ozone Depletion Potential

OECD Organisation for Economic Co-operation and Development

org. organic

PAH polycyclic aromatic hydrocarbon

PBT persistent, bioaccumulative and toxic

PC Chemical product category

PE Polyethylene

PNEC Predicted No Effect Concentration

POCP Photochemical ozone creation potential

ppm parts per million

PROC Process category

PTFE Polytetrafluorethylene

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)

SADT Self-Accelerating Decomposition Temperature

SAR Structure Activity Relationship

SU Sector of use

SVHC Substances of Very High Concern

Tel. Telephone

ThOD Theoretical oxygen demand

TOC Total organic carbon

TRGS Technische Regeln für Gefahrstoffe (=Technical Regulations for Hazardous Substances)

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VbF Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria))

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

WEL-TWA, WEL-STEL WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period), WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period) (EH40, UK).

WHO World Health Organization

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.



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No responsibility.