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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

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Engine Compartment Cleaner

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

Cleaner Uses advised against: No information available at present.

1.3 Details of the supplier of the safety data sheet

LIQUI MOLY GmbH Jerg-Wieland-Str. 4 89081 Ulm-Lehr Tel.: (+49) 0731-1420-0 Fax: (+49) 0731-1420-88

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 (LMR) +1 872 5888271 (LMR)

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
Eye Irrit.	2	H319-Causes serious eye irritation.
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)



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H319-Causes serious eye irritation. 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.

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. P271-Use only outdoors or in a well-ventilated area. P280-Wear protective gloves / eye protection / face protection. P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 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.

Without adequate ventilation, formation of explosive mixtures may be possible. Solvent naphtha (petroleum), heavy arom. Kerosine (petroleum), hydrodesulfurized

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

Aerosol	
3.1 Substances	
^{n.a.} 3.2 Mixtures	
Solvent naphtha (petroleum), heavy arom.	
Registration number (REACH)	
Index	649-424-00-3
EINECS, ELINCS, NLP, REACH-IT List-No.	265-198-5
CAS	64742-94-5
content %	30-50
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	EUH066 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Kerosine (petroleum), hydrodesulfurized	
Registration number (REACH)	
Index	649-423-00-8
EINECS, ELINCS, NLP, REACH-IT List-No.	265-184-9
CAS	64742-81-0
content %	20-30



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Classification according to Regulation (EC) 1272/2008 (CLP), M-factors

Flam. Liq. 3, H226 Skin Irrit. 2, H315 Asp. Tox. 1, H304 Aquatic Chronic 2, H411

Fatty alcohol polyglycol ethers	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	
CAS	127036-24-2
content %	1-<3
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Eye Dam. 1, H318

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

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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. Respiratory arrest - Artificial respiration apparatus necessary.

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. Consult medical specialist.

Ingestion

Immediate admittance to a hospital.

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 Coughing Headaches Effects/damages the central nervous system With long-term contact: Dermatitis (skin inflammation) Product removes fat.

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.

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media

CO2 Extinction powder

Unsuitable extinguishing media



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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 sulphur Oxides of nitrogen Toxic gases Danger of bursting (explosion) when heated Explosive vapour/air or gas/air mixtures.

5.3 Advice for firefighters

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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

Prevent from entering drainage system.

Prevent surface and ground-water infiltration, as well as ground penetration.

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) 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.

Do not use the product in enclosed spaces. Keep away from sources of ignition - Do not smoke.

Do not use on hot surfaces.

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



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Keep out of access to unauthorised individuals. Not to be stored in gangways or stair wells. Store product closed and only in original packing. Observe special regulations for aerosols! Observe special storage conditions. Observe special storage conditions. Keep protected from direct sunlight and temperatures over 50°C. Store in a well ventilated place. **7.3 Specific end use(s)**

No information available at present.

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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): 550 mg/m3

Chemical Name	Solvent naphtha (petroleum), he	avy arom.		
WEL-TWA: 500 mg/m3 (Aromatics	WEL-STEL	.:		
Monitoring procedures:	- Draeger - Hyc	rocarbons 0,1%/c (81	03 571)	
		rocarbons 2/a (81 03	581)	
	- Compur - KIT	A-187 S (551 174)		
BMGV:			Other information:	
Chemical Name	Kerosine (petroleum), hydrodes	ulfurized		
WEL-TWA: 600 mg/m3	WEL-STEL	<u>.</u>		
Monitoring procedures:	- Draeger - Hyc	rocarbons 0,1%/c (81	03 571)	
		rocarbons 2/a (81 03	581)	
	- Compur - KIT	A-187 S (551 174)		
BMGV:			· · · · · · · · · · · · · · · · · · ·	EL acc. to RCP-method,
			paragraphs 84-87, EH4	40)
Chemical Name	Propane			
WEL-TWA: 1000 ppm (ACGIH)	WEL-STEL	:		
Monitoring procedures:		A-125 SA (549 954)		
	- OSHA PV207	7 (Propane) - 1990		
BMGV:			Other information:	
Chemical Name	Butane			
WEL-TWA: 600 ppm (1450 mg/m3	WEL-STEL	.: 750 ppm (1810 mg	g/m3)	
Monitoring procedures:	- Compur - KIT	A-221 SA (549 459)	· ·	
	- OSHA PV201	0 (n-Butane) - 1993		
BMGV:			Other information:	
Chemical Name	Isobutane			
WEL-TWA: 1000 ppm (EX) (ACGI	I) WEL-STEL	:		
Monitoring procedures:	- Compur - KIT	A-113 SB(C) (549 368	3)	
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).



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8.2 Exposure controls 8.2.1 Appropriate engineering controls

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: Protective Viton® / fluoroelastomer gloves (EN ISO 374). Minimum layer thickness in mm: 0.5

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: If OES or MEL is exceeded. Filter A2 P2 (EN 14387), code colour brown, white At high concentrations: Respiratory protection appliance (insulation device) (e.g. EN 137 or EN 138) 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.

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: Colour: Odour: Aerosol. Active substance: liquid. Colourless Characteristic



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Melting point/freezing point: Boiling point or initial boiling point and boiling range: Flammability: Lower explosion limit: Upper explosion limit: Flash point: Auto-ignition temperature: Decomposition temperature: pH: Kinematic viscosity: Solubility: Partition coefficient n-octanol/water (log value): Vapour pressure: Density and/or relative density: Relative vapour density: Particle characteristics:

9.2 Other information Explosives:

Oxidising liquids: Evaporation rate: Solvents content:

There is no information available on this parameter. n.a. Does not apply to aerosols. 0.6 Vol-% 10,9 Vol-% Does not apply to aerosols. No There is no information available on this parameter. Mixture is non-soluble (in water). Does not apply to aerosols. Not miscible Does not apply to mixtures. 3400 hPa 0,7 g/cm3 (20°C) Does not apply to aerosols. Does not apply to aerosols.

Product is not explosive. Possible build up of explosive/highly flammable vapour/air mixture. No n.a. 55,2 % (Organic solvents)

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**

Pressure increase will result in danger of bursting.

Heating, open flame, ignition sources **10.5 Incompatible materials**

Avoid contact with oxidizing agents.

10.6 Hazardous decomposition products

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).

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						n.d.a.
sensitisation:						
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity -						n.d.a.
single exposure (STOT-SE):						
Specific target organ toxicity -						n.d.a.
repeated exposure (STOT-RE):						
Aspiration hazard:						n.d.a.



headaches, drowsiness, dizziness

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Symptoms: n.d.a. Solvent naphtha (petroleum), heavy arom. Toxicity / effect Endpoint Value Unit Organism Test method Notes Acute toxicity, by oral route: Acute toxicity, by dermal route: LD50 >2000 mg/kg Rat >2000 LD50 mg/kg mg/l/4h Rabbit LC50 Acute toxicity, by inhalation: >5 Rat Skin corrosion/irritation: Repeated exposure may cause skin dryness or cracking. Serious eye damage/irritation: Mild irritant Respiratory or skin Guinea pig Not sensitizising sensitisation: Specific target organ toxicity -May cause single exposure (STOT-SE): drowsiness or dizziness. Aspiration hazard: Yes Symptoms: drowsiness,

Kerosine (petroleum), hydrodesulfurized									
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes			
Aspiration hazard:						Yes			

Fatty alcohol polyglycol ethers						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat		
Skin corrosion/irritation:				Rabbit		Not irritant
Serious eye damage/irritation:				Rabbit		Risk of serious
						damage to eyes.
Respiratory or skin					OECD 406 (Skin	No (skin contact)
sensitisation:					Sensitisation)	
Germ cell mutagenicity:					(Ames-Test)	Negative

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	
Germ cell mutagenicity:					OECD 473 (In Vitro	Negative	
					Mammalian	-	
					Chromosome		
					Aberration Test)		
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative	
				typhimurium	Reverse Mutation Test)		
Reproductive toxicity	NOAEC	21,641	mg/l		OECD 422 (Combined		
(Developmental toxicity):					Repeated Dose Tox.		
					Study with the		
					Reproduction/Developm.		
					Tox. Screening Test)		
Aspiration hazard:						No	



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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



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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)	

11.2. Information on other hazards

Engine Compartment Cleaner						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Endocrine disrupting properties:						Does not apply
						to mixtures.
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).

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:							n.d.a.
12.1. Toxicity to daphnia:							n.d.a.
12.1. Toxicity to algae:							n.d.a.
12.2. Persistence and							The surfactant(s
degradability:							contained in this
							mixture
							complies(comply
							with the
							biodegradability
							criteria as laid
							down in
							Regulation (EC)
							No.648/2004 on
							detergents. Data
							to support this
							assertion are
							held at the
							disposal of the
							competent
							authorities of the
							Member States
							and will be made
							available to
							them, at their
							direct request or
							at the request of
							a detergent
							manufacturer.



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12.3. Bioaccumulative		n.d.a.
potential:		
12.4. Mobility in soil:		n.d.a.
12.5. Results of PBT		n.d.a.
and vPvB assessment		
12.6. Endocrine		Does not apply
disrupting properties:		to mixtures.
12.7. Other adverse		No information
effects:		available on
		other adverse
		effects on the
		environment.

Solvent naphtha (petroleum), heavy arom.							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	1-10	mg/l			
12.1. Toxicity to daphnia:	EC50	48h	1-10	mg/l			
12.1. Toxicity to algae:	IC50	72h	1-10	mg/l			
12.2. Persistence and							Not readily
degradability:							biodegradable
12.3. Bioaccumulative	BCF		<100				
potential:							
12.3. Bioaccumulative	Log Pow		>3,8-4,8				
potential:							
Other information:	BOD		52	%			

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	1-10	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to algae:	EC50	72h	1,6	mg/l	Selenastrum capricornutum		
12.2. Persistence and degradability:		28d	>90	%		OECD 301 A (Ready Biodegradability - DOC Die-Away Test)	Readily biodegradable
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC50		50-500	mg/l		OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Other information:	DOC		510	mg/g			
Other information:	COD		1950	mg/g			
Water solubility:							Insoluble

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



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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).
12.4. Mobility in soil:							Not to be expected
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance

Isobutane							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.3. Bioaccumulative							A notable
potential:							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							Readily
degradability:							biodegradable
12.5. Results of PBT							No PBT
and vPvB assessment							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)

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

14 06 03 other solvents and solvent mixtures

Recommendation:

Sewage disposal shall be discouraged.

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.

Recommendation: Do not perforate, cut up or weld uncleaned container.

15 01 04 metallic packaging

15 01 10 packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

General statements

14.1. UN number or ID number: Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name:

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UN 1950 AEROSOLS				
14.3. Transport hazard class(es):	2.1	—		
14.4. Packing group:	2.1			
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 (SOLVENT NAPHTHA,KEROSENE)				
14.3. Transport hazard class(es):	2.1			
14.4. Packing group:	-	▼_		
EmS:	F-D, S-U	$\langle \Psi_2 \rangle$		
Marine Pollutant:	Yes	\sim		
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	h			
All persons involved in transporting must observe safety regulation				
Precautions must be taken to prevent damage.				
14.7. Maritime transport in bulk according to I	MO instruments			
Freighted as packaged goods rather than in bulk, therefore not app				
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.):

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

 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 substances	Notes to Annex I	Qualifying quantity	Qualifying quantity	
			(tonnes) for the	(tonnes) for the	
			application of - Lower-tier	application of - Upper-tier	
			requirements	requirements	
18	Liquefied flammable	19	50	200	
	gases, Category 1 or 2				
	(including LPG) and				
	natural gas				
The Notes to Annex 1 of Di	rective 2012/18/EU, in particu	lar those named in the tables	here and notes 1-6, must be t	taken into account when	

assigning categories and qualifying quantities.



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Directive 2010/75/EU (VOC): REGULATION (EC) No 648/2004

30 % and more aliphatic hydrocarbons aromatic hydrocarbons less than 5 % non-ionic surfactants

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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

97,2 %

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
Eye Irrit. 2, H319	Classification according to calculation procedure.
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 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).

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

 $\ensuremath{\mathsf{EUH066}}$ Repeated exposure may cause skin dryness or cracking.

Eye Irrit. — Eye irritation 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 Eye Dam. — Serious eye damage

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.



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ECHA Homepage - Information about chemicals. GESTIS Substance Database (Germany).

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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: according, according to acc., acc. to Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the ADR International Carriage of Dangerous Goods by Road) AOX Adsorbable organic halogen compounds approx. approximately Article number Art., Art. no. ASTM ASTM International (American Society for Testing and Materials) ATE Acute Toxicity Estimate Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany) BAM BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany) BCF **Bioconcentration factor** The International Bromine Council BSEF bw body weight CAS **Chemical Abstracts Service** Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances CLP 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) European Community EC 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 ΕN **European Norms** EPA United States Environmental Protection Agency (United States of America) $ErCx, E\mu Cx, ErLx (x = 10, 50)$ Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants) etc. et cetera European Union FU EVAL Ethylene-vinyl alcohol copolymer Fax. Fax number gen. general ĞHS Globally Harmonized System of Classification and Labelling of Chemicals GWP Global warming potential Koc Adsorption coefficient of organic carbon in the soil octanol-water partition coefficient Kow International Agency for Research on Cancer IARC International Air Transport Association IATA IBC (Code) International Bulk Chemical (Code) IMDG-code International Maritime Code for Dangerous Goods including, inclusive incl. 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



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not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

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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