

Page 1 of 16 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 07.03.2017 / 0014 Replacing version dated / version: 30.03.2016 / 0013 Valid from: 07.03.2017 PDF print date: 28.07.2017 Hohlraum-Versiegelung braun 500 mL Art.: 6107

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

Hohlraum-Versiegelung braun 500 mL Art.: 6107

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

Corrosion protection Sector of use [SU]:

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SU 3 - Industrial uses: Uses of substances as such or in preparations at industrial sites

SU21 - Consumer uses: Private households (=general public = consumers)

SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Chemical product category [PC]:

PC 9a - Coastings and paints, thinners, paint removers

PC14 - Metal surface treatment products

PC24 - Lubricants, greases, release products

Process category [PROC]:

PROC 7 - Industrial spraying

PROC 8a - Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC 8b - Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC 9 - Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

PROC11 - Non industrial spraying

Article Categories [AC]: AC99 - Not required.

Environmental Release Category [ERC]:

ERC 4 - Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

ERC 7 - Use of functional fluid at industrial site

ERC 8a - Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)

ERC 8d - Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

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LIQUI MOLY GmbH, Jerg-Wieland-Str. 4, 89081 Ulm-Lehr, Germany Phone:(+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)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) 1272/2008 (CLP)



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Hazard class	Hazard category	Hazard statement
STOT SE	3	H336-May cause drowsiness or dizziness.
Aquatic Chronic	3	H412-Harmful to aquatic life with long lasting effects.
Aerosol	1	H222-Extremely flammable aerosol.
Asp. Tox.	1	H304-May be fatal if swallowed and enters airways.
Aerosol	1	H229-Pressurised container: May burst if heated.

2.2 Label elements

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



H336-May cause drowsiness or dizziness. H412-Harmful 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. 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 special waste collection point.

EUH066-Repeated exposure may cause skin dryness or cracking.

Without adequate ventilation, formation of explosive mixtures may be possible. Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

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

Aerosol

3.1 Substance

n.a. 3.2 Mixture

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	
Registration number (REACH)	01-2119463258-33-XXXX
Index	
EINECS, ELINCS, NLP	919-857-5 (REACH-IT List-No.)
CAS	
content %	25-50



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Asp. Tox. 1, H304
STOT SE 3, H336

2,2'-(octadec-9-enylimino)bisethanol	
Registration number (REACH)	01-2119510876-35-XXXX
Index	
EINECS, ELINCS, NLP	246-807-3
CAS	25307-17-9
content %	0,25-<1
Classification according to Regulation (EC) 1272/2008 (CLP)	Acute Tox. 4, H302
	Skin Corr. 1B, H314
	Aquatic Acute 1, H400 (M=10)
	Aquatic Chronic 1, H410 (M=1)
	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 3.1/3.2 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

If, for example, the note P is applied for a hydrocarbon then this has already been taken into account for the classification named here. Quote: "Note P - The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7)."

Article 4 of the regulation (EC) no. 1272/2008 (CLP regulation) was also observed and taken into account for the classification named here.

SECTION 4: First aid measures

4.1 Description of first aid measures

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.

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

Rinse the mouth thoroughly with water.

Do not induce vomiting. Consult doctor immediately. Danger of aspiration

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1. In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours. With long-term contact: Dermatitis (skin inflammation)

Drying of the skin.

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

Water jet spray CO2 Extinction powder Foam



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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 sulphur Oxides of nitrogen Toxic gases Danger of bursting (explosion) when heated Explosive vapour/air mixture

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply. Full protection, if necessary. Cool container at risk with water. Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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

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, sand, diatomaceous earth, sawdust) 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 breathing vapours or spray.

Keep away from sources of ignition - Do not smoke.

Take precautions against electrostatic charges. 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

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.



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Keep protected from direct sunlight and temperatures over 50°C. Store in a well ventilated place.

7.3 Specific end use(s)

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No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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

Chemical Name	Hydrocarbons C	9-C11, n-alkanes,	isoalkanes cyclics	s < 2% aromatics		Content %:25-50
WEL-TWA: 800 mg/m3	riyarooarborio, O	WEL-STEL:		, <u>2</u> /0 uloniuloo		Jonton 70.20 00
Monitoring procedures:	-	Draeger - Hydroc		581)		
01	-	Draeger - Hydroc	arbons 0,1%/c (81	03 571)		
	-	Compur - KITA-18		,		
BMGV:		·		Other information: EH40)	(WEL ac	c. to RCP-method,
Chemical Name	Oil mist, mineral					Content %:
WEL-TWA: 5 mg/m3 (ACGIH)		WEL-STEL:	10 mg/m3 (ACGIF	1)		
Monitoring procedures:	-	Draeger - Oil 10/a	n-P (67 28 371)			
	-	Draeger - Oil Mist	: 1/a (67 33 031)			
BMGV:				Other information:		
Chemical Name	Paraffin wax, furr	e				Content %:
WEL-TWA: 2 mg/m3		WEL-STEL:	6 mg/m3			
Monitoring procedures:						
BMGV:				Other information:		
Chemical Name	Propane					Content %:
WEL-TWA: 1000 ppm (ACGIH)	·	WEL-STEL:				
Monitoring procedures:	-	Compur - KITA-12	25 SA (549 954)			
BMGV:				Other information:		
B Chemical Name	Butane					Content %:
WEL-TWA: 600 ppm (1450 mg/m3	3)	WEL-STEL:	750 ppm (1810 mg	g/m3)		
Monitoring procedures:	-	Compur - KITA-22	21 SA (549 459)			
BMGV:		·	, <u>,</u>	Other information:		
Chemical Name	Isobutane					Content %:
WEL-TWA: 1000 ppm (EX) (ACGI	H)	WEL-STEL:				
Monitoring procedures:	-	Compur - KITA-1	13 SB(C) (549 368	3)		
BMGV:				Other information:		

B 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). (9) = Respirable fraction (2017/164/EU). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).

(8) = Inhalable fraction (2017/164/EU). (9) = Respirable fraction (2017/164/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.

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics								
Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note		
	Environmental compartment							
Consumer	Human - oral	Long term, systemic	DNEL	300	mg/kg			
		effects	BREE	000	bw/day			



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Consumer	Human - dermal	Long term, systemic effects	DNEL	300	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	900	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	125	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	185	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	125	mg/kg bw/day	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	300	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	1500	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	208	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	871	mg/m3	

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: Solvent resistant protective gloves (EN 374). If applicable Protective nitrile gloves (EN 374) Minimum layer thickness in mm: >= 0,12 Permeation time (penetration time) in minutes: > 480 Protective hand cream recommended. The breakthrough times determined in accordance with EN 374 Part 3 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. Gas mask filter A (EN 14387), code colour brown If applicable Protective respirator with independent air supply. Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:



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Not applicable

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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: Odour threshold: pH-value: Melting point/freezing point: Initial boiling point and boiling range: Flash point: Evaporation rate: Flammability (solid, gas): Lower explosive limit: Upper explosive limit: Vapour pressure: Vapour density (air = 1): Density: Bulk density: Solubility(ies): Water solubility: Partition coefficient (n-octanol/water): Auto-ignition temperature: Auto-ignition temperature: Decomposition temperature: Viscosity: Explosive properties:

Oxidising properties:

9.2 Other information Miscibility: Fat solubility / solvent: Conductivity: Surface tension: Solvents content:

Aerosol. Active substance: liquid. Light brown Characteristic Not determined Not determined Not determined -44 °C <-20 °C (DIN 53213 (Pensky-Martens, closed cup)) n.a. Not determined 0,6 Vol-% 10,9 Vol-% 8300 hPa (20°C) Not determined 0,736 g/cm3 (20°C, DIN 51757) n.a. Not determined Not miscible Not determined >200 °C (Ignition temperature) No Not determined Not determined Product is not explosive. Possible build up of explosive/highly flammable vapour/air mixture. No

Not determined Not determined Not determined 63,5 % (Organic solvents)

SECTION 10: Stability and reactivity

10.1 Reactivity
Danger of bursting (explosion) when heated

10.2 Chemical stability
Stable with proper storage and handling.
10.3 Possibility of hazardous reactions
Hazardous reactions will not occur during storage and handling under normal conditions.
10.4 Conditions to avoid
Heating, open flame, ignition sources



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Pressure increase will result in danger of bursting. **10.5 Incompatible materials** Avoid contact with oxidizing agents.

10.6 Hazardous decomposition products

No decomposition when used as directed.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

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:						Repeated
						exposure may
						cause skin
						dryness or
						cracking.
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.
Symptoms:						n.d.a.

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>5000	mg/m3/8h	Rat	OECD 403 (Acute Inhalation Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant, Repeated exposure may cause skin dryness or cracking.
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact)
Germ cell mutagenicity:						Negative
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative, Analogous conclusion
Carcinogenicity:						Negative
Carcinogenicity:					OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies)	Negative, Analogous conclusion



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Reproductive toxicity:		OECD 414 (Prenatal	Negative,
		Developmental Toxicity	Analogous
		Study)	conclusion
Specific target organ toxicity -			May cause
single exposure (STOT-SE):			drowsiness or
			dizziness.
Aspiration hazard:			Yes
Symptoms:			unconsciousness
			, headaches,
			dizziness,
			reddening of the
			skin
Symptoms:			unconsciousness
			, headaches,
			dizziness,
			discoloration of
			the skin,
			vomiting,
			diarrhoea
Specific target organ toxicity -		OECD 408 (Repeated	Not to be
repeated exposure (STOT-RE),		Dose 90-Day Oral	expected
oral:		Toxicity Study in	
		Rodents)	

2,2'-(octadec-9-enylimino)bisethanol Toxicity / effect Endpoint Value Unit Organism Test method Notes Acute toxicity, by oral route: LD50 1260 Rat OECD 401 (Acute Oral mg/kg Toxicity) Skin corrosion/irritation: Rabbit OECD 404 (Acute Corrosive Dermal Irritation/Corrosion)

Paraffin wax, fume						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Symptoms:						diarrhoea

Propane						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by inhalation:	LC50	658	mg/l/4h	Rat		
Germ cell mutagenicity:					OECD 471 (Bacterial	Negative
					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)	
Symptoms:						breathing
						difficulties,
						unconsciousnes
						, frostbite,
						headaches,
						cramps, mucous
						membrane
						irritation,
						dizziness,
						nausea and
						vomiting.

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



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Symptoms:		ataxia, breathing difficulties,
		drowsiness,
		unconsciousness
		, frostbite,
		disturbed heart
		rhythm,
		headaches,
		cramps,
		intoxication, dizziness,
		nausea and
		vomiting.

Isobutane						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by inhalation:	LC50	658	mg/l/4h	Rat		
Serious eye damage/irritation:				Rabbit		Not irritant
Germ cell mutagenicity:					OECD 471 (Bacterial	Negative
					Reverse Mutation Test)	
Symptoms:						unconsciousness , frostbite, headaches, cramps, dizziness, nausea and vomiting.

SECTION 12: Ecological information

Possibly more information	on environmen	tal effects, s	ee Section 2	.1 (classific	ation).		
Hohlraum-Versiegelung	braun 500 mL						
Art.: 6107							
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							n.d.a.
degradability:							
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. Other adverse							n.d.a.
effects:							
Other information:							According to the
							recipe, contains
							no AOX.
Other information:							DOC-elimination
							degree(complexi
							ng organic
							substance)>=
							80%/28d: n.a.

Foxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>1000	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to fish:	NOELR	28d	0,13	mg/l	Oncorhynchus mykiss	QSÁR	



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12.1. Toxicity to daphnia:	EC50	48h	>1000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute	
						Immobilisation Test)	
12.1. Toxicity to daphnia:	NOELR	21d	0,23	mg/l	Daphnia magna	QSAR	
12.1. Toxicity to algae:	ErC50	72h	>1000	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
					a subcapitata	Growth Inhibition	
						Test)	
12.1. Toxicity to algae:	EbC50	72h	>1000	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
					a subcapitata	Growth Inhibition	
					-	Test)	
12.1. Toxicity to algae:	NOELR	72h	100	mg/l	Raphidocelis	OECD 201 (Alga,	
					subcapitata	Growth Inhibition	
					-	Test)	
12.1. Toxicity to algae:	NOELR	72h	100	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
					a subcapitata	Growth Inhibition	
						Test)	
12.2. Persistence and		28d	80	%		OECD 301 F	
degradability:						(Ready	
						Biodegradability -	
						Manometric	
						Respirometry Test)	
12.2. Persistence and		28d	80	%		OECD 301 F	Readily
degradability:						(Ready	biodegradable
						Biodegradability -	
						Manometric	
						Respirometry Test)	
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substance
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substance

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	0,1	mg/l	Brachydanio rerio	OECD 203 (Fish,	Analogous
						Acute Toxicity	conclusion
						Test)	
12.1. Toxicity to daphnia:	EC50	48h	0,043	mg/l	Daphnia magna	OECD 202	
						(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to algae:	EC50	72h	>0,01-	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
			0,1	_	a subcapitata	Growth Inhibition	
						Test)	
12.2. Persistence and		28d	>60	%		OECD 301 D	
degradability:						(Ready	
						Biodegradability -	
						Closed Bottle Test)	
12.3. Bioaccumulative	Log Pow		3,4				
potential:							
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substan

 Propane

 Toxicity / effect
 Endpoint
 Time
 Value
 Unit
 Organism
 Test method
 Notes



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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

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

EC disposal code no.:

GB

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

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.

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:	-
Classification code:	5F
LQ:	1 L
14.5. Environmental hazards:	Not applicable
Tunnel restriction code:	D
Transport by sea (IMDG-code) 14.2. UN proper shipping name: AEROSOLS	





(B)						
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14.3. Transport hazard class(es):	2.1					
14.4. Packing group:	-					
EmS:	F-D, S-U					
Marine Pollutant:	n.a					
14.5. Environmental hazards:	Not applicable					
Transport by air (IATA)						
14.2. UN proper shipping name:						
Aerosols, flammable	•					
14.3. Transport hazard class(es):	2.1 👛					
14.4. Packing group:						
14.5. Environmental hazards:	Not applicable					
14.6. Special precautions for user						
Persons employed in transporting dangerous goods must be trained.						
All persons involved in transporting must observe safety regulations.						
Precautions must be taken to prevent damage.						
	IAPPOL and the IPC Code					
14.7. Transport in bulk according to Annex II of N Freighted as packaged goods rather than in bulk, therefore not applicat 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 regulation	s/legislation specific for the substance or mixture					
,,	5					

Observe restrictions:

Comply with national regulations/laws governing maternity protection and the protection of young people at work! Comply with trade association/occupational health regulations.

Directive 2012/18/EU ("Seveso III"), A	nnex I, Part 1 - The following cate	egories apply to this product (ot	thers may also need to be considered
according to storage, handling etc.):			-

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	referred to in Article 3(10) for the
		application of - Lower-tier	application of - Upper-tier
		requirements	requirements
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
	3		(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 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):

63,49 %

Observe incident regulations.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information



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Revised sections:

3

These details refer to the product as it is delivered. Employee instruction/training in handling hazardous materials is required. Employee training in handling dangerous goods 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
STOT SE 3, H336	Classification according to calculation procedure.
Aquatic Chronic 3, H412	Classification according to calculation procedure.
Aerosol 1, H222	Classification according to calculation procedure.
Asp. Tox. 1, H304	Classification according to calculation procedure.
Aerosol 1, H229	No classification based on test data.

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

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life. H410 Very 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 Acute Tox. — Acute toxicity - oral Skin Corr. — Skin corrosion Aquatic Acute — Hazardous to the aquatic environment - acute Eye Dam. — Serious eye damage

Any abbreviations and acronyms used in this document:

AC **Article Categories** acc., acc. to according, according 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 Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP) ATE 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) **Bioconcentration factor** BCF Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation) BGV Butylhydroxytoluol (= 2,6-Di-t-butyl-4-methyl-phenol) BHT BMGV Biological monitoring guidance value (EH40, UK)



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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.

These statements were made by: Chemical Check GmbH, Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax:

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