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

Revision date / version: 25.07.2019 / 0020

Replacing version dated / version: 05.07.2018 / 0019

Valid from: 25.07.2019 PDF print date: 25.07.2019

Unterboden-Schutz Bitumen schwarz 500 mL

Art.: 6111

# 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

## Unterboden-Schutz Bitumen schwarz 500 mL

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## 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]:

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

(GB)

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:

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## 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
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)



Danger

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. P273-Avoid release to the environment.

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

P405-Store locked up. P410+P412-Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

P501-Dispose of contents / container to an approved waste disposal facility.

EUH066-Repeated exposure may cause skin dryness or cracking.

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

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

Hydrocarbons, C9, 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

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, C7-C9, n-alkanes, isoalkanes, cyclics	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP	920-750-0 (REACH-IT List-No.)
CAS	
content %	15-<25



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

Hydrocarbons, C9, aromatics	
Registration number (REACH)	01-2119455851-35-XXXX
Index	
EINECS, ELINCS, NLP	918-668-5 (REACH-IT List-No.)
CAS	(64742-95-6)
content %	1-5
Classification according to Regulation (EC) 1272/2008 (CLP)	Flam. Liq. 3, H226
	Asp. Tox. 1, H304
	STOT SE 3, H335
	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

Call doctor immediately - have Data Sheet available.

Do not induce vomiting.

## 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 respiratory tract

Coughing

Headaches

Effects/damages the central nervous system

Narcotic effect.

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

n.c.

## **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media Suitable extinguishing media



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Water jet spray

CO<sub>2</sub>

Extinction powder

Large fire:

Water jet spray / alcohol resistant foam

## Unsuitable extinguishing media

High volume water jet

## 5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Hydrocarbons

Toxic pyrolysis products.

Danger of explosion by prolonged heating.

Explosive vapour/air or gas/air mixtures.

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

## 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

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.

Keep away from sources of ignition - Do not smoke.

Take measures against electrostatic charging, if appropriate.

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.



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Not to be stored in gangways or stair wells.

Store product closed and only in original packing.

Observe special regulations for aerosols!

Do not store with oxidizing agents.

Keep protected from direct sunlight and temperatures over 50°C.

Store in a well ventilated place.

Observe special storage conditions.

## 7.3 Specific end use(s)

No information available at present.

## **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

Workplace exposure limit (WEL) of the total hydrocarbon solvent content of the mixture (RCP method according to EH40): 1000 mg/m3

Chemical Name	Hydrocarbons, C	7-C9, n-alkanes, isoalkanes, cyclics		Content %:15- <25
WEL-TWA: 1200 mg/m3		WEL-STEL:		
Monitoring procedures:	-	Draeger - Hydrocarbons 2/a (81 03	581)	'
	-	Draeger - Hydrocarbons 0,1%/c (81	03 571)	
	-	Compur - KITA-187 S (551 174)		
BMGV:			Other information: (O paragraphs 84-87, EH4	DEL acc. to RCP-method, 40)
Chemical Name	Hydrocarbons, C	9, aromatics		Content %:1-5
WEL-TWA: 500 mg/m3 (Aromati	cs)	WEL-STEL:		
Monitoring procedures:	-	Draeger - Hydrocarbons 2/a (81 03		
	-	Draeger - Hydrocarbons 0,1%/c (81	03 571)	
	-	Compur - KITA-187 S (551 174)		
BMGV:			Other information:	•
Chemical Name	Quartz			Content %:
WEL-TWA: 0,1 mg/m3 (silica, re-	spirable, crystalline)	WEL-STEL:		
Monitoring procedures:		MDHS 101 (Crystalline silica in resp		
		infrared spectroscopy and X-ray diff		ject
	-	BC/CEN/ENTR/000/2002-16 card 5	2-1 (2004)	
		INSHT MTA/MA-036 (Determination	n of Quartz in Air – Meml	brane Filter Method/ Xray
	-	Diffraction) - 2000, 2004		
		NIOSH 7500 (Crystalline Silica, by )		) - 2003 - EU project
	-	BC/CEN/ENTR/000/2002-16 card 5		
	-	NIOSH 7602 (Crystalline Silica, by I NIOSH 7603 (Quartz in coal mine d		) 2002
	-	OSHA ID-142 (Quartz and Cristoba		
BMGV:	-	OSHA ID-142 (Qualiz and Cristoba	Other information:	prieres) - 1990
			Other information	
Chemical Name	Asphalt			Content %:
WEL-TWA: 5 mg/m3 (Asphalt, pe	etroleum fumes)	WEL-STEL: 10 mg/m3 (Asphal	lt, petroleum fumes)	
Monitoring procedures:			0.1 1.6	
BMGV:			Other information:	
Chemical Name	Propane			Content %:
WEL-TWA: 1000 ppm (ACGIH)		WEL-STEL:		
Monitoring procedures:	-	Compur - KITA-125 SA (549 954)		
BMGV:	<u> </u>		Other information:	
Chemical Name	Butane			Content %:
WEL-TWA: 600 ppm (1450 mg/n		WEL-STEL: 750 ppm (1810 mg	g/m3)	
Monitoring procedures:	-	Compur - KITA-221 SA (549 459)	g /	
BMGV:			Other information:	
© Chemical Name	Coloium	, to		Contant 0/
Glemical Name	Calcium carbona	ile		Content %:



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WEL-TWA: 4 mg/m3 (respirable dust), 10 mg/m3	WEL-STEL:				
(total inhalable dust)					
Monitoring procedures:					
BMGV:		Other information:			

Hydrocarbons, C7-C9, n-	alkanes, isoalkanes, cyclics					
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Human - oral	Long term, systemic effects	DNEL	699	mg/kg bw/d	
Consumer	Human - dermal	Long term, systemic effects	DNEL	699	mg/kg bw/d	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	608	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	773	mg/kg bw/d	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	2035	mg/m3	

Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Consumer	Human - inhalation	Long term, systemic effects	DNEL	32	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	11	mg/kg bw/day	
Consumer	Human - oral	Long term, systemic effects	DNEL	11	mg/kg bw/day	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	25	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	150	mg/m3	

Asphalt							
Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note	
	Environmental						
	compartment						
Consumer	Human - inhalation	Long term, local effects	DNEL	0,6	mg/m3		
Workers / employees	Human - inhalation	Long term, local effects	DNEL	2,9	mg/m3		

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

## 8.2 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.

<sup>(8) =</sup> 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).

<sup>(8) =</sup> 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.

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



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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:

Solvent resistant protective gloves (EN 374).

If applicable

Protective nitrile gloves (EN 374).

Minimum layer thickness in mm:

>= 0,4

Permeation time (penetration time) in minutes:

>= 480

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.

The recommended maximum wearing time is 50% of breakthrough time.

Protective hand cream recommended.

Skin protection - Other:

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

Respiratory protection:

Normally not necessary.

If OES or MEL is exceeded.

Gas mask filter A (EN 14387), code colour brown

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

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:

Aerosol. Active substance: liquid.

Black

Characteristic
Not determined

7 (20°C) Not determined



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Initial boiling point and boiling range:

-44 °C

Flash point:

Evaporation rate: Not determined Flammability (solid, gas): Not determined Lower explosive limit: 0,9 Vol-%

When using: development of explosive vapour/air mixture possible. Upper explosive limit:

Vapour pressure: 8300 hPa (20°C) Vapour pressure: 10800 hPa (30°C) Vapour density (air = 1): Not determined

Density:

Bulk density: Not determined Solubility(ies): Not determined Water solubility: Insoluble

Partition coefficient (n-octanol/water): Not determined

Auto-ignition temperature: 200 °C (Ignition temperature)

Auto-ignition temperature: Nο

Decomposition temperature: Not determined Viscosity: Not determined Explosive properties: Product is not explosive.

Oxidising properties: Not determined

9.2 Other information

Miscibility: Not determined Fat solubility / solvent: Not determined Conductivity: Not determined Surface tension: Not determined Not determined Solvents content:

## **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 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:						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.



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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.
Other information:	Classification
	according to
	calculation
	procedure.

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 oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral	
• •					Toxicity)	
Acute toxicity, by dermal route:	LD50	>2800	mg/kg	Rabbit	OECD 402 (Acute	
• •					Dermal Toxicity)	
Acute toxicity, by dermal route:	LD50	>2800	mg/kg	Rabbit	OECD 402 (Acute	
<b>3</b> . <b>3</b>					Dermal Toxicity)	
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit	OECD 402 (Acute	
, , , , , , , , , , , , , , , , , , ,			3 3		Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>23,3	mg/l/4h	Rat	OECD 403 (Acute	Vapours
, , , , , , , , , , , , , , , , , , ,		-,-	3		Inhalation Toxicity)	.,
Acute toxicity, by inhalation:	LC50	>23,3	mg/l/4h	Rat	OECD 403 (Acute	
· · · · · · · · · · · · · · · · · · ·		1	1119,1,111	112.11	Inhalation Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant
					Dermal	
					Irritation/Corrosion)	
Skin corrosion/irritation:					augustų Gerreelerių	Repeated
						exposure may
						cause skin
						dryness or
						cracking.
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Not irritant
conous eye damage/imation.				Rabbit	Irritation/Corrosion)	140t iiiitaiit
Respiratory or skin				Guinea pig	OECD 406 (Skin	Not sensitizising
sensitisation:				- Cumca pig	Sensitisation)	140t ochoruzionig
Germ cell mutagenicity:					OECD 473 (In Vitro	Negative
Cerni cen matagemeny.					Mammalian	Nogativo
					Chromosome	
					Aberration Test)	
Germ cell mutagenicity:		2000	mg/kg	Mouse	OECD 474 (Mammalian	Negative
Cerm cen matagementy.		2000	mg/kg	Wiodsc	Erythrocyte	ricgative
					Micronucleus Test)	
Reproductive toxicity:	LOAEL	9000	ppm	Rat	OECD 416 (Two-	Negative
reproductive toxicity.	LOALL	3000	ppiii	Ival	generation	iveyative
					Reproduction Toxicity	
					Study)	
Aspiration hazard:					Study)	Yes
Aspiration nazaru.					_1	100



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Symptoms:		drowsiness,
		unconsciousness
		,
		heart/circulatory
		disorders,
		headaches,
		cramps,
		drowsiness,
		mucous
		membrane
		irritation,
		dizziness,
		nausea and
		vomiting.

Hydrocarbons, C9, aromatics Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	3492	mg/kg	Rat	OECD 401 (Acute Oral	110100
Acute toxicity, by oral route.	LDS0	343Z	mg/kg	IXAL	Toxicity)	
Acute toxicity, by dermal route:	LD50	>3160	mg/kg	Rabbit	OECD 402 (Acute	
Acute toxicity, by definal route.	LDSU	>3100	Hig/kg	Kabbit	Dermal Toxicity)	
A suite terrisite, but inhelations	LC50	. 5 000	/1 / A la	Rat		
Acute toxicity, by inhalation:	LC50	>5,693	mg/l/4h	Rat	OECD 403 (Acute	
				<b>D</b> 11.2	Inhalation Toxicity)	N1 41 14 4
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant
					Dermal	
					Irritation/Corrosion)	
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Not irritant
· -					Irritation/Corrosion)	
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin contact
sensitisation:					Sensitisation)	
Germ cell mutagenicity:					OECD 471 (Bacterial	Negative
Com con matagornoxy.					Reverse Mutation Test)	rioganio
Germ cell mutagenicity:					OECD 475 (Mammalian	Negative
Germ cen mutagemony.					Bone Marrow	inegative
					Chromosome	
					Aberration Test)	
Germ cell mutagenicity:					OECD 476 (In Vitro	Negative
					Mammalian Cell Gene	
					Mutation Test)	
Germ cell mutagenicity:					OECD 479 (Genetic	Negative
					Toxicology - In Vitro	
					Sister Chromatid	
					Exchange assay in	
					Mammalian Cells)	
Carcinogenicity:						Negative
Reproductive toxicity:					OECD 414 (Prenatal	Negative
reproductive texicity.					Developmental Toxicity	Nogativo
					Study)	
Reproductive toxicity:					OECD 416 (Two-	Negative
Reproductive toxicity.						Negative
					generation	
					Reproduction Toxicity	
0 15 1					Study)	0707.05.0
Specific target organ toxicity -						STOT SE 3,
single exposure (STOT-SE):						H335, STOT SE
						3, H336
Specific target organ toxicity -					OECD 408 (Repeated	Negative
repeated exposure (STOT-RE):					Dose 90-Day Oral	
, , ,					Toxicity Study in	
					Rodents)	
Specific target organ toxicity -					OECD 452 (Chronic	Negative
repeated exposure (STOT-RE):					Toxicity Studies)	
Aspiration hazard:					Toxioity Otdaios	Yes
Aspiration nazaru.						169



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C. mantanas.			ua a miuata mi
Symptoms:			respiratory
			distress,
			coughing,
			burning of the
			membranes of
			the nose and
			throat,
			drowsiness,
			dizziness,
			headaches,
			nausea,
			unconsciousness
			, fever, ear
			noises, drying of
			the skin.

Quartz						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Symptoms:						respiratory
						distress,
						coughing,
						mucous
						membrane
						irritation

Asphalt						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/kg			Analogous
						conclusion
Acute toxicity, by dermal route:	LD50	>2000	mg/kg			Analogous
						conclusion

Propane						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by inhalation:	LC50	658	mg/l/4h	Rat		
Skin corrosion/irritation:						Not irritant
Serious eye damage/irritation:						Not irritant
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)	
Aspiration hazard:						No
Symptoms:						breathing
						difficulties,
						unconsciousness
						, 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)	
Aspiration hazard:						No



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

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat	OECD 420 (Acute Oral	
• •					toxicity - Fixe Dose	
					Procedure)	
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rat	OECD 402 (Acute	
					Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>3	mg/l/4h	Rat	OECD 403 (Acute	
					Inhalation Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant
					Dermal	
					Irritation/Corrosion)	
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Not irritant,
					Irritation/Corrosion)	Mechanical
						irritation possible.
Respiratory or skin						No (skin contact)
sensitisation:						
Germ cell mutagenicity:					in vitro	Negative
Carcinogenicity:						Negative,
						administered as
						Ca-lactate
Reproductive toxicity:						Negative,
						administered as
						Ca-carbonate

## **SECTION 12: Ecological information**

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

Unterboden-Schutz Bitu	Unterboden-Schutz Bitumen schwarz 500 mL							
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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.	

Lludrocarbono	C7 C0	n alkanaa	iocalleance	avaliaa
Hydrocarbons,	. <i></i>	n-aikanes,	isoaikanes,	Cyclics



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Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50		1 -10	mg/l	Oncorhynchus		
					mykiss		
12.1. Toxicity to daphnia:	EL50	48h	4,6 - 10	mg/l	Daphnia magna	OECD 202	
						(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to daphnia:	NOELR	21d	1 -1,6	mg/l	Daphnia magna	OECD 211	
						(Daphnia magna	
						Reproduction Test)	
12.1. Toxicity to algae:	EbL50	72h	10-30		Pseudokirchneriell	OECD 201 (Alga,	
					a subcapitata	Growth Inhibition	
						Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	10	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
					a subcapitata	Growth Inhibition	
						Test)	
12.2. Persistence and		28d	98	%		OECD 301 F	Completely
degradability:						(Ready	biodegradable.
						Biodegradability -	
						Manometric	
						Respirometry Test)	
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substance
Toxicity to bacteria:	EL50	48h	11,14	mg/l			calculated value

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	9,2	mg/l	Oncorhynchus	OECD 203 (Fish,	
					mykiss	Acute Toxicity	
						Test)	
12.1. Toxicity to daphnia:	EC50	48h	3,2	mg/l	Daphnia magna	OECD 202	
						(Daphnia sp.	
						Acute	
						Immobilisation	
10.4 T : '' / 1	E 1.50	701		//	<b>D</b> 111 1 1 1	Test)	
12.1. Toxicity to algae:	ErL50	72h	2,9	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
					a subcapitata	Growth Inhibition	
12.2. Persistence and		28d	54-56	%		Test) OECD 301 B	
degradability:		26U	34-30	70		(Ready	
degradability.						Biodegradability -	
						Co2 Evolution	
						Test)	
12.2. Persistence and		28d	78	%		OECD 301 E	Readily
degradability:						(Ready	biodegradable
						Biodegradability -	· ·
						Modified OECD	
						Screening Test)	
12.2. Persistence and		28d	78	%		OECD 301 F	
degradability:						(Ready	
						Biodegradability -	
						Manometric	
10 0 B:			07.45			Respirometry Test)	
12.3. Bioaccumulative potential:	Log Pow		3,7 - 4,5				
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substanc

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



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12.2. Persistence and degradability:			Not relevant for inorganic
			substances.
12.3. Bioaccumulative			Not to be
potential:			expected
12.4. Mobility in soil:			Low

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

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

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>100	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity	
					IIIykiss	Test)	
12.1. Toxicity to daphnia:	EC50	48h	>100	mg/l	Daphnia magna	OECD 202	
						(Daphnia sp.	
						Acute Immobilisation	
						Test)	
12.1. Toxicity to algae:	EC50	72h	>14	mg/l	Desmodesmus	OECD 201 (Alga,	
					subspicatus	Growth Inhibition	
						Test)	
Toxicity to bacteria:	EC50	3h	>1000	mg/l	activated sludge	OECD 209	
						(Activated Sludge, Respiration	
						Inhibition Test	
						(Carbon and	
						Ammonium	
						Oxidation))	
Toxicity to annelids:					Eisenia foetida	OECD 207	Negative
						(Earthworm,	
						Acute Toxicity Tests)	
Water solubility:			0,014	g/l		1 5010)	

## **SECTION 13: Disposal considerations**



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#### 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

08 01 11 waste paint and varnish containing organic solvents or other hazardous substances

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. suitable incineration plant.

E.g. dispose at suitable refuse site.

## 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 1 L

IO. 14.5. Environmental hazards:

environmentally hazardous Tunnel restriction code:

## Transport by sea (IMDG-code)

14.2. UN proper shipping name:

AEROSOLS (NAPHTHA (PETROLEUM))

2.1 14.3. Transport hazard class(es): 14.4. Packing group:

EmS: F-D, S-U Yes

Marine Pollutant: 14.5. Environmental hazards: environmentally hazardous

#### Transport by air (IATA)

14.2. UN proper shipping name:

Aerosols, flammable

14.3. Transport hazard class(es): 2.1

14.4. Packing group:

14.5. Environmental hazards: Not applicable

## 14.6. Special precautions for user

Persons employed in transporting dangerous goods must be trained.

All persons involved in transporting must observe safety regulations.

Precautions must be taken to prevent damage.

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Freighted as packaged goods rather than in bulk, therefore not applicable.

Minimum amount regulations have not been taken into account.

Danger code and packing code on request.

Comply with special provisions.

## **SECTION 15: Regulatory information**

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









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#### 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 national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)! 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.):

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

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

Directive 2010/75/EU (VOC): 51,1 %
Directive 2010/75/EU (VOC): 511 g/l

## 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

### **SECTION 16: Other information**

Revised sections:

2, 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):

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

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.



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H304 May be fatal if swallowed and enters airways.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

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

STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation

## Any abbreviations and acronyms used in this document:

acc., acc. to according, according 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

Art., Art. no. Article number

ASTM ASTM International (American Society for Testing and Materials)

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)

BSEF The International Bromine Council

bw body weight

Chemical Abstracts Service CAS

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

and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

DMEL Derived Minimum Effect Level

DNEL Derived No Effect Level

dw drv weight

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

EC **European Community** ECHA European Chemicals Agency FFC **European Economic Community** 

**EINECS** European Inventory of Existing Commercial Chemical Substances

European List of Notified Chemical Substances **ELINCS** 

ΕN European Norms

**EPA** United States Environmental Protection Agency (United States of America)

etc. et cetera

EU European Union

EVAL Ethylene-vinyl alcohol copolymer

Fax. Fax number general aen.

Globally Harmonized System of Classification and Labelling of Chemicals GHS

**GWP** Global warming potential

IARC International Agency for Research on Cancer IATA International Air Transport Association IBC (Code) International Bulk Chemical (Code)

IMDG-code International Maritime Code for Dangerous Goods

including, inclusive incl.

IUCLID International Uniform Chemical Information Database

**Limited Quantities** LQ

MARPOL International Convention for the Prevention of Marine Pollution from Ships

not applicable n.a. n.av. not available not checked n.c. n.d.a. no data available

OECD Organisation for Economic Co-operation and Development

org. organic

**PBT** persistent, bioaccumulative and toxic



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PE Polyethylene

PNEC Predicted No Effect Concentration

ppm parts per million PVC Polyvinylchloride

REACHRegistration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration,

Evaluation, Authorisation and Restriction of Chemicals)

REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List

Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.

RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International

Carriage of Dangerous Goods by Rail) SVHC Substances of Very High Concern

Tel. Telephone

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.

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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