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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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# Unterbodenschutz Bitumen schwarz

1.2 Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses of the substance or mixture: Corrosion protection 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
Flam. Liq.	2
STOT SE	3
Aquatic Chronic	2

Aquatic Chronic

Hazard statement H225-Highly flammable liquid and vapour. H336-May cause drowsiness or dizziness. H411-Toxic to aquatic life with long lasting effects.

### 2.2 Label elements

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



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H225-Highly flammable liquid and vapour. H336-May cause drowsiness or dizziness. H411-Toxic to aquatic life with long lasting effects.

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. 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. P403+P233-Store in a well-ventilated place. Keep container tightly closed. P405-Store locked up. P501-Dispose of contents / container to an approved waste disposal facility.

EUH066-Repeated exposure may cause skin dryness or cracking.

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 (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

### **SECTION 3: Composition/information on ingredients**

### 3.1 Substances

#### n.a. **3.2 Mixtures**

01-2119473851-33-XXXX
920-750-0
25-<50
EUH066
Flam. Liq. 2, H225
STOT SE 3, H336
Asp. Tox. 1, H304
Aquatic Chronic 2, H411

Hydrocarbons, C9, aromatics		
Registration number (REACH)	01-2119455851-35-XXXX	
Index		
EINECS, ELINCS, NLP, REACH-IT List-No.	918-668-5	
CAS	(64742-95-6)	
content %	1-<3	



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Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	EUH066
	Flam. Liq. 3, H226
	STOT SE 3, H335
	STOT SE 3, H336
	Asp. Tox. 1, H304
	Aquatic Chronic 2, H411
Propylene carbonate	
Registration number (REACH)	01-2119537232-48-XXXX
Index	607-194-00-1
EINECS, ELINCS, NLP, REACH-IT List-No.	203-572-1
CAS	108-32-7
content %	1-<3

Impurities, test data and additional information may have been taken into account in classifying and labelling the product.

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!

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

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.

Eye Irrit. 2, H319

The addition of the highest concentrations listed here can result in a classification. Only when this classification is listed in Section 2 does it apply. In all other cases the total concentration is below the classification.

### **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.

#### 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 - give copious water to drink. Consult doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

**SECTION 5: Firefighting measures** 

5.1 Extinguishing media

Suitable extinguishing media

CO2 Sand Extinction powder 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:



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Oxides of carbon Oxides of sulphur Oxides of nitrogen Toxic gases Possible build up of explosive/highly flammable vapour/air mixture. **5.3 Advice for firefighters** 

#### For personal protective equipment see Section 8. In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply. According to size of fire Full protection, if necessary. Cool container at risk with water.

Dispose of contaminated extinction water according to official regulations.

#### **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

### 6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination.

Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

Keep unprotected persons away.

Remove possible causes of ignition - do not smoke.

Ensure sufficient supply of air.

Avoid inhalation, and contact with eyes or skin.

### If applicable, caution - risk of slipping.

#### 6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

#### 6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

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

Prevent from entering drainage system.

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

#### 6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13. Do not wash away with water or watery cleaning agents.

#### 6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

### **SECTION 7: Handling and storage**

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

### 7.1 Precautions for safe handling

### 7.1.1 General recommendations

Ensure good ventilation.

Avoid inhalation of the vapours.

Keep away from sources of ignition - Do not smoke.

Take precautions against electrostatic charges. Avoid contact with eyes or skin.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

#### 7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.



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### 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 storage conditions. Do not store with flammable or self-igniting materials. Protect from direct sunlight and warming. Store in a well-ventilated place. Store cool.

### 7.3 Specific end use(s)

No information available at present.

Observe the instructions for good working practice and the recommendations for risk assessment. Consult hazardous substance information systems, e.g. from the professional associations, the chemical industry or different industries, depending on the application (building materials, wood, chemistry, laboratory, leather, metal).

### **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): 1200 mg/m3

Chemical Name	Hydrocarbons, C7-C9, n-alkanes, is		
WEL-TWA: 1200 mg/m3	WEL-STEL:		
Monitoring procedures:	<ul> <li>Draeger - Hydroc</li> </ul>	carbons 0,1%/c (81 03 571)	
	- Draeger - Hydroc	carbons 2/a (81 03 581)	
	- Compur - KITA-1		
BMGV:			(OEL acc. to RCP-method,
Dine V.		paragraphs 84-87, E	
Chemical Name	Hydrocarbons, C9, aromatics		
WEL-TWA: 500 mg/m3 (Aromatics	) WEL-STEL:		
Monitoring procedures:	- Draeger - Hydroc	carbons 0,1%/c (81 03 571)	
	<b>o</b> ,	carbons 2/a (81 03 581)	
	- Compur - KITA-1		
BMGV:		Other information:	
-		outor montation.	
Chemical Name	Calcium carbonate		
WEL-TWA: 4 mg/m3 (respirable du	ust), 10 mg/m3 WEL-STEL:		
(total inhalable dust)			
Monitoring procedures:			
BMGV:		Other information:	
Chemical Name	Asphalt		
		10 mg/m2 (Apphalt, potroloum fumos)	
WEL-TWA: 5 mg/m3 (Asphalt, petr		10 mg/m3 (Asphalt, petroleum fumes)	
Monitoring procedures:			
BMGV:		Other information:	

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	



Human - inhalation Human - dermal Human - inhalation	effects Long term, systemic effects Long term, systemic effects Long term, local effects	DNEL DNEL DNEL	176 20 20	mg/m3 mg/kg mg/m3	
Human - dermal	Long term, systemic effects Long term, systemic effects	DNEL	20	mg/kg	
Human - dermal	Long term, systemic effects Long term, systemic effects	DNEL	20	mg/kg	
	Long term, systemic effects			_	
Human - inhalation			176	ma/m3	
numan - Innalation	0	DINEL	10,53	під/кд	
	effects			0	
	effects				
Human - oral	Long term, systemic effects	DNEL	10	mg/kg	
treatment plant		PNEC	7400	mg/l	
freshwater				_	
Environment - soil					
marine				_	
Environment - sediment,		PNEC	0,083	mg/l	
Environment - marine		PNEC	0.09	ma/l	
		PNEC	9	mg/I	
compartment		DNEO	0	100 gr //	
Exposure route / Environmental	Effect on nealth	Descriptor	value	Unit	Note
	Effect on backh	Descriptor	Value	Unit	Nata
<u> </u>	effects				
Human - inhalation	Long term, systemic	DNEL	150	bw/day mg/m3	
Human - dermal	Long term, systemic	DNEL	25	mg/kg	
Human - oral	Long term, systemic	DNEL	11	mg/kg	
Human - dermal	Long term, systemic	DNEL	11	mg/kg	
Human - inhalation	Long term, systemic	DNEL	32	mg/m3	
Exposure route / Environmental	Effect on health	Descriptor	Value	Unit	Note
Human - inhalation	Long term, systemic effects	DNEL	2035	mg/m3	
sion: 19.09.2023 / 0025 chwarz Human - inhalation	Long term, systemic	DNEL	2035	mg/m3	
	.2024 / 0026         sion: 19.09.2023 / 0025         shwarz         Human - inhalation <b>Exposure route /</b> Environmental         compartment         Human - inhalation         Human - dermal         Human - oral         Human - dermal         Human - dermal         Human - station         Exposure route /         Environmental         compartment         Human - station         Environment - sporadic         (intermittent) release         Environment - soli         Environment - soli         Environment - soli         Environment - sediment,         marine         Environment - sediment,         freshwater         Environment - sediment,         freshwater	sion: 19.09.2023 / 0025 shwarz           Human - inhalation         Long term, systemic effects           Exposure route / Environmental compartment         Effect on health           Human - inhalation         Long term, systemic effects           Human - dermal         Long term, systemic effects           Human - oral         Long term, systemic effects           Human - dermal         Long term, systemic effects           Human - inhalation         Long term, systemic effects           Human - inhalation         Long term, systemic effects           Human - inhalation         Long term, systemic effects           Exposure route / Environment - sporadic (intermittent) release         Effect on health           Environment - sediment, marine         Effect on health           Environment - sediment, freshwater         Environment - sediment, freshwater           Environment - sediment, freshwater         Long term, systemic effects           Human - oral         Long term, systemic effects           Human - oral         Long term, systemic effects           Human - inhalation         Long term, systemic effects           Human - inhalation         Long term, systemic effects	2024 / 0026         sion: 19.09.2023 / 0025         shwarz         Human - inhalation       Long term, systemic effects         DNEL         Station - inhalation       Long term, systemic effects         Human - inhalation       Long term, systemic effects         Human - dermal       Long term, systemic effects         Human - oral       Long term, systemic effects         Human - dermal       Long term, systemic effects         Human - dermal       Long term, systemic effects         Human - inhalation       Long term, systemic effects         Human - inhalation       Long term, systemic effects         DNEL       Effect on health       DNEL         Environment - sporadic (intermittent) release       DNEL         Environment - seporadic (intermittent) release       PNEC         Environment - sediment, marine       PNEC         Environment - sediment, marine       PNEC         Environment - sediment, freshwater       PNEC         Environment - sediment, freshwater       PNEC         Environment - sediment, effects       DNEL         Human - oral       Long term, systemic effects       DNEL         Human - oral       Long term, systemic effects       DNEL         Human - oral       Long term	2024 / 0026         sion: 19.09.2023 / 0025         Human - inhalation       Long term, systemic effects         Human - inhalation       Long term, systemic effects         Burnommental compartment       Long term, systemic effects         Human - inhalation       Long term, systemic effects         Human - dermal       Long term, systemic effects         Human - oral       Long term, systemic effects         Human - inhalation       Long term, systemic effects         Human - dermal       Long term, systemic effects         Human - inhalation       Long term, systemic effects         Environment - sporadic (intermittent) release       PNEC         Environment - sediment, marine       PNEC         Environment - sediment, marine       PNEC         Environment - sediment, freshwater       PNEC         Environment - sediment, freshwater	2024 / 0026         sion: 19.09.2023 / 0025         shwarz         Human - inhalation       Long term, systemic effects       DNEL       2035       mg/m3         Exposure route / Environmental compartment       Effect on health       Descriptor       Value       Unit         Human - inhalation       Long term, systemic effects       DNEL       32       mg/m3         Human - dermal       Long term, systemic effects       DNEL       11       mg/kg         Human - oral       Long term, systemic effects       DNEL       11       mg/kg         Human - dermal       Long term, systemic effects       DNEL       15       mg/kg         Human - inhalation       Long term, systemic effects       DNEL       150       mg/mg         Human - inhalation       Long term, systemic effects       DNEL       150       mg/mg         Exposure route / Environment - sediment, marine       Effect on health       Descriptor       Value       Unit         Exposure route / Environment - sediment, marine       PNEC       9       mg/l       mg/m3         Environment - sediment, frestwater       PNEC       0.09       mg/l       mg/l         Environment - sediment, frestwater       PNEC       0.83       mg/l       mg/l

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United Kingdom | WEL-TWA = Workplace Exposure Limit - Long-term exposure limit - 8-hour TWA (= time weighted average) reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).
 (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:

Long term, local effects DNEL

Long term, local effects DNEL

0,6

2,9

mg/m3 mg/m3

compartment

Human - inhalation

Human - inhalation

Consumer

Workers / employees

(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU: (8) = Inhalable fraction (2004/37/CE, 2017/164/EU). (9) = Respirable fraction (2004/37/CE, 2017/164/EU). (11) = Inhalable fraction (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 (2004/37/CE). |



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| WEL-STEL = Workplace Exposure Limit - Short-term exposure limit - 15-minute reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).

(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:

(8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 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 (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).

(EU) = Directive 98/24/EC or 2004/37/EC or SCOEL (Biological Limit Value - BLV, Recommendation from the Scientific Committee on Occupational Exposure Limits (SCOEL)) |

| Other information (EH40/2005 Workplace exposure limits (Fourth Edition 2020)): Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:

(13) = The substance can cause sensitisation of the skin and of the respiratory tract (2004/37/CE), (14) = The substance can cause sensitisation of the skin (2004/37/CE).

### 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.

Skin protection - Hand protection:

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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).

Protective nitrile gloves (EN ISO 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 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. Gas mask filter A (EN 14387), code colour brown 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.



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### 8.2.3 Environmental exposure controls

No information available at present.

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### **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

Physical state: Colour: Odour: 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: 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:

Solvents content:

Liquid Black Characteristic There is no information available on this parameter. 106-140 °C (Solvent) There is no information available on this parameter. 0,9 Vol-% (Solvent) 7 Vol-% (Solvent) 6 °C (Solvent) >200 °C (Solvent) There is no information available on this parameter. Mixture is non-soluble (in water). >20,5 mm2/s (40°C) 4500 mPas (20°C, Dynamic viscosity) Insoluble Does not apply to mixtures. 111 hPa (50°C) 1,09 g/cm3 (20°C, DIN 51757) There is no information available on this parameter. Does not apply to liquids.

Product is not explosive. When using: development of explosive vapour/air mixture possible. 35,3 % (Organic solvents )

### **SECTION 10: Stability and reactivity**

#### **10.1 Reactivity**

Possible build up of flammable vapour/air mixture.
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
Heating, open flame, ignition sources
10.5 Incompatible materials
Avoid contact with strong 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.



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	1	1	1			l a al 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):						مام
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.
Hudrooprhone C7 C0 - aller		ovolico				
Hydrocarbons, C7-C9, n-alkane			l lmit	Organica	Toot mothed	Notes
Toxicity / effect	Endpoint LD50	Value >5000	Unit	Organism	Test method           OECD 401 (Acute Oral	Notes
Acute toxicity, by oral route:	LDOU	>5000	mg/kg	Rat		
Aguta toxicity, by darmal router		× 2000	malka	Dabbit	Toxicity) OECD 402 (Acute	
Acute toxicity, by dermal route:	LD50	>2800	mg/kg	Rabbit		
A sute touisity, by inholation,	1.050			Det	Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>23,3	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Vapours
Skin corrosion/irritation:				Dabbit		Not irritant
Skin corrosion/imtation:				Rabbit	OECD 404 (Acute Dermal	Not irritant
					Irritation/Corrosion)	Denseted
Skin corrosion/irritation:						Repeated
						exposure may
						cause skin
						dryness or
Serious eye damage/irritation:				Rabbit		cracking. Not irritant
Senous eye damage/imiation.				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Notimiant
Respiratory or skin				Cuinco nia	OECD 406 (Skin	Not sensitizisin
sensitisation:				Guinea pig		
					Sensitisation) OECD 473 (In Vitro	Negative
Germ cell mutagenicity:					Mammalian	inegative
					Chromosome	
					Aberration Test)	
Germ cell mutagenicity:		2000	mg/kg	Mouse	OECD 474 (Mammalian	Negative
		2000	ing/kg	wouse	Erythrocyte	inegative
					Micronucleus Test)	
Germ cell mutagenicity:				+	OECD 471 (Bacterial	Negative
Com cen mulagementy.					Reverse Mutation Test)	INCYAUVE
Reproductive toxicity:				+	OECD 414 (Prenatal	Negative
					Developmental Toxicity	i i cyalive
					Study)	
Reproductive toxicity:	LOAEL	9000	ppm	Rat	OECD 416 (Two-	Negative
		5000	Phin	T COL	generation	i i cyalive
					Reproduction Toxicity	
					Study)	
Specific target organ toxicity -						STOT SE 3,
single exposure (STOT-SE):						H336
Specific target organ toxicity -					OECD 413 (Subchronic	Negative
repeated exposure (STOT-RE):					Inhalation Toxicity - 90-	. togative
					Day Study)	
	1	1	1	1	- 4, 0, 44, 7	1



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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	
			5.5		Toxicity)	
Acute toxicity, by dermal route:	LD50	>3160	mg/kg	Rabbit	OECD 402 (Acute	
			5.5		Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>5,693	mg/l/4h	Rat	OECD 403 (Acute	Analogous
·····		-,	J		Inhalation Toxicity)	conclusion
Acute toxicity, by inhalation:	LC50	>6,193	mg/l/4h	Rat	OECD 403 (Acute	Vapours
<b>3</b> 7 <b>3</b>		,	J		Inhalation Toxicity)	
Skin corrosion/irritation:					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Repeated
						exposure may
						cause skin
						dryness or
						cracking.
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 475 (Mammalian	Negative
<b>5</b> ,					Bone Marrow	0
					Chromosome	
					Aberration Test)	
Germ cell mutagenicity:					OECD 476 (In Vitro	Negative
0, 1					Mammalian Cell Gene	0
					Mutation Test)	
Germ cell mutagenicity:					OECD 479 (Genetic	Negative
0, 1					Toxicology - In Vitro	0
					Sister Chromatid	
					Exchange assay in	
					Mammalian Cells)	
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative,
				typhimurium	Reverse Mutation Test)	Analogous
						conclusion
Carcinogenicity:						Negative
Reproductive toxicity:				Rat	OECD 421	Negative,
-					(Reproduction/Developm	Analogous
					ental Toxicity Screening	conclusion
					Test)	
Reproductive toxicity:					OECD 414 (Prenatal	Negative
					Developmental Toxicity	č
					Study)	
Reproductive toxicity:					OECD 416 (Two-	Negative
. ,					generation	0
					Reproduction Toxicity	
					Study)	



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Specific target organ toxicity - single exposure (STOT-SE):						STOT SE 3, H335, STOT SE 3, H336
Specific target organ toxicity - repeated exposure (STOT-RE):					OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	Negative
Specific target organ toxicity - repeated exposure (STOT-RE): Aspiration hazard:					OECD 452 (Chronic Toxicity Studies)	Negative Yes
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.
Propylene carbonate						
Toxicity / effect Acute toxicity, by oral route:	Endpoint LD50	Value >5000	Unit	Organism Rat	Test method OECD 401 (Acute Oral	Notes
Acute toxicity, by dermal route:	LD50	>2000	mg/kg mg/kg	Rabbit	Toxicity) OECD 402 (Acute	
Skin corrosion/irritation:				Rabbit	Dermal Toxicity) OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Irritant
Respiratory or skin sensitisation:				Human being	,	No (skin contact
Germ cell mutagenicity: Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test) OECD 474 (Mammalian	Negative Negative
					Erythrocyte Micronucleus Test)	-
Germ cell mutagenicity:					OECD 482 (Gen. Tox DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro)	Negative
Carcinogenicity:				Mouse	OECD 451 (Carcinogenicity Studies)	Negative
Reproductive toxicity:	NOAEL	1000	mg/kg	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Negative
Aspiration hazard:						No
Symptoms:						breathing difficulties, headaches, gastrointestinal disturbances,



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enterbedensendtz Bitamen som						
Specific target organ toxicity -	NOEL	>5000	mg/kg		OECD 408 (Repeated	
repeated exposure (STOT-RE),	NOLL	20000	mg/ng		Dose 90-Day Oral	
oral:					Toxicity Study in	
orai:					Rodents)	
Specific target organ toxicity -	NOEC	100	ma/m2		OECD 413 (Subchronic	Dust, Mist
repeated exposure (STOT-RE),	NUEC	100	mg/m3		Inhalation Toxicity - 90-	Dust, Mist
inhalat.:					Day Study)	
Calcium carbonate						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat	OECD 420 (Acute Oral	
· · · · · · · · · · · · · · · · · · ·			33		toxicity - Fixe Dose	
					Procedure)	
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat		
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
				1 (dobit	Dermal	
					Irritation/Corrosion)	
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Not irritant,
Schous eye damage/imitation.				Rabbit	Irritation/Corrosion)	Mechanical
					initiation/contosion)	irritation possible
Respiratory or skin						No (skin contact
sensitisation:						
Germ cell mutagenicity:					in vitro	Negative
Carcinogenicity:						Negative,
Carcinogenicity.						administered as
						Ca-lactate
Reproductive toxicity:						Negative,
Reproductive toxicity.						administered as
						Ca-carbonate
Asphalt						
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	> 2000	mg/kg	Rabbit	OECD 402 (Acute	
					Dermal Toxicity)	
Acute toxicity, by inhalation:	LD50	> 94,4	mg/m3	Rat	OECD 403 (Acute	Analogous
					Inhalation Toxicity)	conclusion
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		1		Guinea pig	OECD 406 (Skin	No (skin contact
sensitisation.	1	1	1	Samoa pig	Sensitisation)	

Sensitisation) OECD 473 (In Vitro sensitisation: Germ cell mutagenicity: Negative Chinese hamster Mammalian Chromosome Aberration Test) NOAEL mg/kg bw/d OECD 416 (Two-generation Reproductive toxicity: 1000 Rat **Reproduction Toxicity** Study) Symptoms: vomiting, mucous membrane irritation OECD 410 (Repeated Dose Dermal Toxicity -Specific target organ toxicity -NOAEL > 2000 Rabbit mg/kg repeated exposure (STOT-RE), bw/d dermal: 90-Day)



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### 11.2. Information on other hazards

Unterbodenschutz Bitumen schwarz								
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**

Unterbodenschutz Bitumen schwarz 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 Does not apply 12.6. Endocrine disrupting properties: to mixtures. 12.7. Other adverse No information effects: available on other adverse effects on the environment. Other information: DOC-elimination degree(complexi ng organic substance)>= 80%/28d: n.a. Other information: AOX % Does not contain any organically bound halogens which can contribute to the AOX value in waste water.

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
2.1. Toxicity to fish:	NOELR	28d	0,574	mg/kg	Oncorhynchus mykiss		
12.1. Toxicity to fish:	LC50	96h	3 -10	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	0,17	mg/l	Daphnia magna	,	
12.1. Toxicity to daphnia:	EL50	48h	4,6 - 10	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	

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



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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:	NOEC/NOEL	72h	10	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	EL50	72h	10	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	98	%		OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Completely biodegradable.
12.3. Bioaccumulative potential:							Not to be expected(evapo ation)
12.4. Mobility in soil:							Product is slightly volatile.
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
12.7. Other adverse effects:							Product floats o the water surface.
Toxicity to bacteria:	EL50	48h	11,14	mg/l			calculated value
Hydrocarbons, C9, arom	atics						
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	9,2	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	48h	3,2	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	ErL50	72h	2,9	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	54-56	%		OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	
12.2. Persistence and degradability:		28d	78	%	activated sludge	OECD 301 E (Ready Biodegradability - Modified OECD Screening Test)	Readily biodegradable
12.2. Persistence and degradability:		28d	78	%		OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	
12.3. Bioaccumulative potential:	Log Pow		3,7 - 4,5				
12.5. Results of PBT							No PBT



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Toxicity to bacteria:	EC50	10min	>99	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and
						Ammonium Oxidation))

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>1000	mg/l	Cyprinus caprio	92/69/EC	
12.1. Toxicity to daphnia:	EC50	48h	>1000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	EC50	72h	>900	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:			83,5-87- 7	%		OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Readily biodegradable29 d
12.2. Persistence and degradability:	DOC	14d	90-100	%		OECD 301 A (Ready Biodegradability - DOC Die-Away Test)	
12.3. Bioaccumulative potential:	Log Pow		-0,41				Bioaccumulatior is unlikely (LogPow < 1)., calculated value
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC10	16h	7400	mg/l	Pseudomonas putida	DIN 38412 T.8	
Other information:	AOX		0	%			Does not contair any organically bound halogens which can contribute to the AOX value in waste water.

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 Test)	
12.1. Toxicity to fish:	LC50	96h	>10000	mg/l	Oncorhynchus mykiss	,	
12.1. Toxicity to daphnia:	EC50	48h	>1000	mg/l	Daphnia magna		
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	>200	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	



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Unterbodenschutz Bitume							
Onterbodenschutz Ditume							
12.2. Persistence and							Inorganic
degradability:							products cannot
degradability.							be eliminated
							from water
							through
							biological
							purification
							methods.
12.3. Bioaccumulative							Not relevant for
potential:							inorganic
							substances.
12.4. Mobility in soil:							Not relevant for
							inorganic
							substances.
12.5. Results of PBT							Not relevant for
and vPvB assessment							inorganic
12.6. Endocrine							substances.
							Not to be
disrupting properties:	F050	0h	1000	100 ci /l			expected
Toxicity to bacteria:	EC50	3h	>1000	mg/l	activated sludge	OECD 209	
						(Activated Sludge,	
						Respiration	
						Inhibition Test	
						(Carbon and	
						Ammonium	
<b>T</b> 1.14 4 P.1						Oxidation))	
Toxicity to annelids:					Eisenia foetida	OECD 207	Negative
						(Earthworm,	
						Acute Toxicity	
						Tests)	
A k 14							
Asphalt						<b>—</b> ( ) 1	
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LL50	96h	> 1000	mg/l	Oncorhynchus	QSAR	Analogous
10.4 T 1 1 4 6 1	NOFONOF	00.1	1000	//	mykiss	0045	conclusion
12.1. Toxicity to fish:	NOEC/NOEL	28d	>= 1000	mg/l	Oncorhynchus	QSAR	Analogous
	NOFOTIOF	04 :			mykiss	0045	conclusion
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	>= 1000	mg/l	Daphnia magna	QSAR	Analogous
····							conclusion

### **SECTION 13: Disposal considerations**

mg/l

mg/l

Daphnia magna

a subcapitata

Pseudokirchneriell

QSAR

QSAR

Analogous conclusion

Analogous conclusion

biodegradable

substance, No vPvB substance

Not

High

No PBT

# **13.1 Waste treatment methods**

LL50

EL50

Log Kow

### For the substance / mixture / residual amounts

EC disposal code no.:

12.1. Toxicity to daphnia:

12.1. Toxicity to algae:

12.2. Persistence and

12.3. Bioaccumulative

12.5. Results of PBT

and vPvB assessment

degradability:

potential:

-

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)

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

48h

72h

> 1000

> 1000

>6

Recommendation:

Sewage disposal shall be discouraged.



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Pay attention to local and national official regulations. E.g. suitable incineration plant. E.g. dispose at suitable refuse site.

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### For contaminated packing material

Pay attention to local and national official regulations. Empty container completely. Uncontaminated packaging can be recycled. Dispose of packaging that cannot be cleaned in the same manner as the substance. Do not perforate, cut up or weld uncleaned container. Residues may present a risk of explosion.

### **SECTION 14: Transport information**

General statements	
Transport by road/by rail (ADR/RID)	
14.1. UN number or ID number:	1139
14.2. UN proper shipping name:	
UN 1139 COATING SOLUTION	
14.3. Transport hazard class(es):	3
14.4. Packing group:	JY.
14.5. Environmental hazards:	environmentally hazardous
Tunnel restriction code:	D/E
Classification code:	F1
LQ:	5 L
Transport category:	2
Transport by sea (IMDG-code)	
14.1. UN number or ID number:	1139
14.2. UN proper shipping name:	
UN 1139 COATING SOLUTION (HYDROCARBONS, C7-C9)	
14.3. Transport hazard class(es):	3
14.4. Packing group:	
14.5. Environmental hazards:	environmentally hazardous
Marine Pollutant:	Yes
EmS:	F-E, S-E
Transport by air (IATA)	
14.1. UN number or ID number:	1139
14.2. UN proper shipping name:	
UN 1139 Coating solution	<u> </u>
14.3. Transport hazard class(es):	3
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. Maritime transport in bulk according to IM	O instruments
Freighted as packaged goods rather than in bulk, therefore not applic	able.
Minimum amount regulations have not been taken into account.	
Danger code and packing code on request.	
Comply with special provisions.	
SECTION 15: Re	gulatory 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 national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)! Comply with trade association/occupational health regulations.



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Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others may also need to be considered according to storage, handling etc.):

Hazard categories	Notes to Annex I	Qualifying quantity (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
P5c		5000	50000
E2		200	500

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):

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35,29 %

Observe incident regulations.

National requirements/regulations on safety and health protection must be applied when using work equipment.

#### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

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

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Revised sections: 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
Flam. Liq. 2, H225	Classification based on test data.
STOT SE 3, H336	Classification according to calculation procedure.
Aquatic Chronic 2, H411	Classification according to calculation procedure.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents. H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

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

#### Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended. Guidelines for the preparation of safety data sheets as amended (ECHA). Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA). Safety data sheets for the constituent substances.



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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 CAS **Chemical Abstracts Service** CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures) CMR carcinogenic, mutagenic, reproductive toxic DMEL Derived Minimum Effect Level DNEL Derived No Effect Level DOC Dissolved organic carbon for example (abbreviation of Latin 'exempli gratia'), for instance e.q. 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 European Inventory of Existing Commercial Chemical Substances EINECS European List of Notified Chemical Substances FI INCS EN European Norms United States Environmental Protection Agency (United States of America) EPA  $ErCx, E\mu Cx, ErLx (x = 10, 50)$ Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants) etc. et cetera EU European Union EVAL Ethylene-vinyl alcohol copolymer Fax number Fax. general aen. GHS Globally Harmonized System of Classification and Labelling of Chemicals Global warming potential GWP Adsorption coefficient of organic carbon in the soil Koc octanol-water partition coefficient Kow IARC International Agency for Research on Cancer IATA International Air Transport Association International Bulk Chemical (Code) IBC (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 Limited Quantities 10 MARPOL International Convention for the Prevention of Marine Pollution from Ships mg/kg bw mg/kg body weight



ആ Page 20 of 20 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 04.03.2024 / 0026 Replacing version dated / version: 19.09.2023 / 0025 Valid from: 04.03.2024 PDF print date: 08.03.2024 Unterbodenschutz Bitumen schwarz mg/kg bw/d, mg/kg bw/day mg/kg body weight/day mg/kg dry weight mg/kg dw mg/kg wwt mg/kg wet weight not applicable n.a. not available n.av. not checked n.c. n.d.a. no data available NIOSH National Institute for Occupational Safety and Health (USA) NI P No-longer-Polymer NOEC, NOEL No Observed Effect Concentration/Level OECD Organisation for Economic Co-operation and Development org. organic OSHA Occupational Safety and Health Administration (USA) PBT persistent, bioaccumulative and toxic ΡE Polyethylene PNEC Predicted No Effect Concentration parts per million ppm PVC Polyvinylchloride REACHRegistration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals) 6/7/8/9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical REACH-IT List-No. 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 тос Total organic carbon UN RTDG United Nations Recommendations on the Transport of Dangerous Goods VOC Volatile organic compounds vPvB very persistent and very bioaccumulative

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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