

Page 1 of 16

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

Revised on / Version: 08.04.2014 / 0014

Replaces revision of / Version: 29.05.2013 / 0013

Valid from: 08.04.2014 PDF print date: 09.04.2014

Unterboden-Schutz Bitumen schwarz 500ML 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 500ML

Art.: 6111

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, including galvanic and electroplating products

PC24 - Lubricants, greases, release products

Process category [PROC]:

PROC 7 - Industrial spraying

PROC 8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities

PROC 8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities

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

PROC11 - Non industrial spraying

Article Categories [AC]:

AC99 - Not required.

Environmental Release Category [ERC]:

ERC 4 - Industrial use of processing aids in processes and products, not becoming part of articles

ERC 7 - Industrial use of substances in closed systems

ERC 8a - Wide dispersive indoor use of processing aids in open systems

ERC 8d - Wide dispersive outdoor use of processing aids in open systems

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

LIQUI MOLY GmbH, Jerg-Wieland-Straße 4, D-89081 Ulm-Lehr Telephone: (+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

Emergency information services / official advisory body:

Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (LMR)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) 1272/2008 (CLP)

Hazard class Hazard category Hazard statement

Asp. Tox. 1 H304-May be fatal if swallowed and enters airways.



Page 2 of 16

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

Revised on / Version: 08.04.2014 / 0014

Replaces revision of / Version: 29.05.2013 / 0013

Valid from: 08.04.2014 PDF print date: 09.04.2014

Unterboden-Schutz Bitumen schwarz 500ML Art.: 6111

STOT SE 3 H336-May cause drowsiness or dizziness.

Aquatic Chronic 2 H411-Toxic to aquatic life with long lasting effects.

1 Aerosol H222-Extremely flammable aerosol.

Aerosol 1 H229-Pressurised container: May burst if heated.

2.1.2 Classification according to Directives 67/548/EEC and 1999/45/EC (including amendments)

F+,Extremely flammable

N, Dangerous for the environment, R51-53

Xn, Harmful, R65

R66 R67

2.2 Label elements

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



Danger

Hazard statement

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.

Prevention

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 wellventilated area. P273-Avoid release to the environment.

Response

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

Storage

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

P501-Dispose of contents/container to special waste collection point.

EUH066-Repeated exposure may cause skin dryness or cracking.

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

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

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.

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

SECTION 3: Composition/information on ingredients

Aerosol

3.1 Substance

n.a. 3.2 Mixture



Page 3 of 16

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

Revised on / Version: 08.04.2014 / 0014

Replaces revision of / Version: 29.05.2013 / 0013

Valid from: 08.04.2014 PDF print date: 09.04.2014

Unterboden-Schutz Bitumen schwarz 500ML Art.: 6111

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP	920-750-0 (REACH-IT List-No.)
CAS	CAS
content %	15-<25
Classification according to Directive 67/548/EEC	Highly flammable, F, R11
	Dangerous for the environment, N, R51
	Dangerous for the environment, R53
	Harmful, Xn, R65
	R66
	R67
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 Directive 67/548/EEC	Flammable, R10
	Irritant, Xi, R37
	Dangerous for the environment, N, R51
	Dangerous for the environment, R53
	Harmful, Xn, R65
	R66
	R67
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 R-phrases / H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1/3.2 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

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

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation

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



Page 4 of 16

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

Revised on / Version: 08.04.2014 / 0014

Replaces revision of / Version: 29.05.2013 / 0013

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Unterboden-Schutz Bitumen schwarz 500ML Art.: 6111

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

Water jet spray

CO2

Extinction powder

Large fire:

Water jet spray / alcohol resistant foam

Cool container at risk with water.

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 mixture

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

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



(B)

Page 5 of 16

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

Revised on / Version: 08.04.2014 / 0014

Replaces revision of / Version: 29.05.2013 / 0013

Valid from: 08.04.2014 PDF print date: 09.04.2014

Unterboden-Schutz Bitumen schwarz 500ML Art.: 6111

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.

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 (in Germany, e.g., in accordance with the regulations in the "Betriebssicherheitsverordnung").

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

© Chemica	I Name	Hydrocarbons, C7-0	C9, n-alkanes,	isoalkanes, cyclics			Content %:15-<25		
WEL-TWA:	1200 mg/m3		WEL-STEL:						
BMGV:	GV: Other information:								
© Chemica	Il Name	Hydrocarbons, C9,	aromatics				Content %:1-5		
WEL-TWA:	500 mg/m3 (Aromatics	s)	WEL-STEL:						
BMGV:					Other information:				
	I Name	Quartz					Content %:		
WEL-TWA:	0,1 mg/m3 (silica, resp	oirable, crystalline)	WEL-STEL:						
BMGV:	_ · _ ,	, ,			Other information:	•			
© Chemica	I Name	Asphalt					Content %:		
WEL-TWA:	5 mg/m3 (Asphalt, pet	roleum fumes)	WEL-STEL:	10 mg/m3 (Aspha	lt, petroleum fumes)				
BMGV:					Other information:				
© Chemica	I Name	Propane					Content %:		
WEL-TWA:	1000 ppm (ACGIH)		WEL-STEL:						
BMGV:					Other information:				
	I Name	Butane					Content %:		
WEL-TWA:	600 ppm (1450 mg/m3	3)	WEL-STEL:	750 ppm (1810 m	g/m3)				
BMGV:					Other information:				
© Chemica	Il Name	Calcium carbonate					Content %:		
WEL-TWA:	4 mg/m3 (respirable do	ust), 10 mg/m3	WEL-STEL:						
(total inhalabl	e dust)	· ·							
BMGV:					Other information:				



Page 6 of 16

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

Revised on / Version: 08.04.2014 / 0014

Replaces revision of / Version: 29.05.2013 / 0013

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Unterboden-Schutz Bitumen schwarz 500ML Art.: 6111

"Arbeitsplatzgrenzwert" (workplace limit value, Germany). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

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

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

Hydrocarbons, C9, aromatics									
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note			
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				
Consumer	Human - inhalation	Long term, systemic effects	DNEL	32	mg/m3				
Consumer	Human - dermal	Long term, systemic effects	DNEL	11	mg/kg bw/d				
Consumer	Human - oral	Long term, systemic effects	DNEL	11	mg/kg bw/day				

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.

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 374 Part III were not obtained under practical conditions.

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



(GR)

Page 7 of 16

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

Revised on / Version: 08.04.2014 / 0014

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Unterboden-Schutz Bitumen schwarz 500ML Art.: 6111

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 manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Aerosol, Substance: Liquid

Colour: Black Odour: Characteristic Odour threshold: Not determined pH-value: 7 (20°C)

Melting point/freezing point: Not determined Initial boiling point and boiling range:

Flash point: -97 °C (DIN 53213 (Pensky-Martens, closed cup)) Evaporation rate: Not determined Flammability (solid, gas): Not determined Lower explosive limit: 0.9 Vol-%

Upper explosive limit: When using: development of explosive vapour/air mixture possible. Vapour pressure: 8300 hPa (20°C)

Nο

Vapour pressure: 10800 hPa (30°C) Vapour density (air = 1): Not determined Density: Not determined Bulk density: Not determined Solubility(ies): Not determined Water solubility: Insoluble Partition coefficient (n-octanol/water): Not determined

Auto-ignition temperature:

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

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 Solvents content: Not determined



Page 8 of 16

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

Revised on / Version: 08.04.2014 / 0014

Replaces revision of / Version: 29.05.2013 / 0013

Valid from: 08.04.2014

PDF print date: 09.04.2014

Unterboden-Schutz Bitumen schwarz 500ML Art.: 6111

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

See also section 7.

Pressure increase will result in danger of bursting.

Heating, open flame, ignition sources

10.5 Incompatible materials

See also section 7.

Avoid contact with oxidizing agents.

10.6 Hazardous decomposition products

See also section 5.2

No decomposition when used as directed.

SECTION 11: Toxicological information

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

Toxicity/effect	Endpoin	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	L .					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 sensitisation:						n.d.a.
Germ cell mutagenicity:						n.d.a.
Germ cell mutagenicity:						n.d.a.
Germ cell mutagenicity:						n.d.a.
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity - single exposure (STOT-SE):						n.d.a.
Specific target organ toxicity - repeated exposure (STOT-RE):						n.d.a.
Aspiration hazard:						n.d.a.
Respiratory tract irritation:						n.d.a.
Repeated dose toxicity:						n.d.a.
Repeated dose toxicity:						n.d.a.
Symptoms:						n.d.a.
Other information:						Classification according
						to calculation procedure

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics								
Toxicity/effect	Endpoin	Value	Unit	Organism	Test method	Notes		
	t							
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)			



Page 9 of 16
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revised on / Version: 08.04.2014 / 0014
Replaces revision of / Version: 29.05.2013 / 0013

Valid from: 08.04.2014 PDF print date: 09.04.2014

Unterboden-Schutz Bitumen schwarz 500ML Art.: 6111

Acute toxicity, by inhalation:	LC50	>23,3	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)	
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin	Not sensitizising
•					Sensitisation)	
Germ cell mutagenicity (in vitro):					OECD 473 (Ín Vitro	Negative
					Mammalian `	
					Chromosome	
					Aberration Test)	
Germ cell mutagenicity (in vivo):		2000	mg/kg	Mouse	OECD 474	Negative
3 , , ,					(Mammalian	J S
					Erythrocyte	
					Micronucleus Test)	
Reproductive toxicity:	LOAEL	9000	ppm	Rat	OECD 416 (Two-	Negative
·			' '		generation	
					Reproduction Toxicity	
					Study)	
Aspiration hazard:					7,	Yes
Symptoms:						dizziness,
						unconsciousness,
						heart/circulatory
						disorders, headaches,
						cramps, drowsiness,
						mucous membrane
						irritation, dizziness
						nausea and vomiting.

Hydrocarbons, C9, aromatics	Hydrocarbons, C9, aromatics							
Toxicity/effect	Endpoin t	Value	Unit	Organism	Test method	Notes		
Acute toxicity, by oral route:	LD50	>2000- <5000	mg/kg	Rat				
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit				
Skin corrosion/irritation:						Mild irritant Repeated		
						exposure may cause skin		
						dryness or cracking.		
Serious eye damage/irritation:						Not irritant		
Respiratory or skin sensitisation:						Not sensitizising		
Germ cell mutagenicity:						Negative		
Carcinogenicity:						Negative		
Reproductive toxicity:						Negative		
Specific target organ toxicity -						May cause drowsiness or		
single exposure (STOT-SE):						dizziness. May cause		
, , ,						respiratory irritation.		
Aspiration hazard:						Yes		
Respiratory tract irritation:						Irritant		
Symptoms:						respiratory distress,		
•						coughing, burning of the		
						membranes of the nose		
						and throat, dizziness,		
						dizziness, headaches,		
						nausea,		
						unconsciousness, fever,		
						ear noises drying of the		
						skin.		

Quartz								
Toxicity/effect	Endpoin	Value	Unit	Organism	Test method	Notes		
Acute toxicity, by oral route:	,					Not relevant for classification.		



Page 10 of 16
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revised on / Version: 08.04.2014 / 0014
Replaces revision of / Version: 29.05.2013 / 0013

Valid from: 08.04.2014 PDF print date: 09.04.2014

Unterboden-Schutz Bitumen schwarz 500ML Art.: 6111

Acute toxicity, by dermal route:	Not relevant for
	classification.
Acute toxicity, by inhalation:	Not relevant for
	classification.
Skin corrosion/irritation:	Not relevant for
	classification.
Serious eye damage/irritation:	Not relevant for
	classification.
Respiratory or skin sensitisation:	Not sensitizising
Germ cell mutagenicity:	No indications of such an
	effect.
Carcinogenicity:	No indications of such an
	effect.
Reproductive toxicity:	No indications of such an
	effect.
Specific target organ toxicity -	Not relevant for
repeated exposure (STOT-RE):	classification.
Aspiration hazard:	Not relevant for
	classification.
Symptoms:	respiratory distress,
	coughing, mucous
	membrane irritation

Asphalt								
Toxicity/effect	Endpoin	Value	Unit	Organism	Test method	Notes		
	t							
Acute toxicity, by oral route:	LD50	>2000	mg/kg			Analogous conclusion		
Acute toxicity, by dermal route:	LD50	>2000	mg/kg			Analogous conclusion		
Symptoms:						vomiting, mucous		
						membrane irritation		

Propane										
Toxicity/effect	Endpoin	Value	Unit	Organism	Test method	Notes				
	t									
Germ cell mutagenicity					OECD 471 (Bacterial	Negative				
(bacterial):					Reverse Mutation Test)	_				
Symptoms:						breathing difficulties,				
						unconsciousness,				
						frostbite, headaches,				
						cramps, mucous				
						membrane irritation,				
						dizziness nausea and				
						vomiting.				

Toxicity/effect	Endpoin t	Value	Unit	Organism	Test method	Notes
Acute toxicity, by inhalation:	LC50	658	mg/l/4h	Rat		
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Symptoms:						ataxia, breathing difficulties, dizziness, unconsciousness, frostbite, disturbed heart rhythm, headaches, cramps, intoxication, dizziness nausea and vomiting.

Calcium carbonate										
Toxicity/effect	Endpoin	Value	Unit	Organism	Test method	Notes				
	t									
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat						
Respiratory or skin sensitisation:						No indications of such an				
						effect.				



Page 11 of 16
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revised on / Version: 08.04.2014 / 0014

Replaces revision of / Version: 29.05.2013 / 0013

Valid from: 08.04.2014 PDF print date: 09.04.2014

Unterboden-Schutz Bitumen schwarz 500ML Art.: 6111

Other information:			References Harmless, is
			approved as additive for food (E170).

SECTION 12: Ecological information

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

Unterboden-Schutz Bitu	men schwarz	500ML								
Art.: 6111										
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes			
Toxicity to fish:							n.d.a.			
Toxicity to daphnia:							n.d.a.			
Toxicity to algae:							n.d.a.			
Persistence and							n.d.a.			
degradability:										
Bioaccumulative							n.d.a.			
potential:										
Mobility in soil:							n.d.a.			
Results of PBT and							n.d.a.			
vPvB assessment										
Other adverse effects:							n.d.a.			
Other information:							According to the recipe, contains no AOX.			

Hydrocarbons, C7-C9 Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LL50	96h	3 -10	mg/l	Oncorhynchus	OECD 203 (Fish,	110100
					mykiss	Acute Toxicity	
						Test)	
Toxicity to daphnia:	EL50	48h	4,6 -	mg/l	Daphnia magna	OECD 202	
			10			(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
Toxicity to daphnia:	NOELR	21d	1 -1,6	mg/l	Daphnia magna	OECD 211	
						(Daphnia magna	
						Reproduction	
						Test)	
Toxicity to algae:	NOEC/NO	72h	10	mg/l	Pseudokirchneriell	OECD 201	
	EL				a subcapitata	(Alga, Growth	
						Inhibition Test)	
Toxicity to algae:	EbL50	72h	10-30		Pseudokirchneriell	OECD 201	
					a subcapitata	(Alga, Growth	
						Inhibition Test)	
Persistence and		28d	98	%		OECD 301 F	Completely biodegradable.
degradability:						(Ready	
						Biodegradability -	
						Manometric	
						Respirometry	
						Test)	
Results of PBT and							No PBT substance, No
vPvB assessment							vPvB substance
Toxicity to bacteria:	EL50	48h	11,14	mg/l			calculated value
Water solubility:			2	mg/l			Insoluble

Hydrocarbons, C9, aromatics											
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes				
Toxicity to fish:	LC50	96h	9,22	mg/l	Oncorhynchus mykiss						
Toxicity to daphnia:	EC50	48h	21,3	mg/l							
Toxicity to algae:	EC50	72h	2,6-2,9	mg/l	Pseudokirchneriell a subcapitata						



Page 12 of 16

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

Revised on / Version: 08.04.2014 / 0014

Replaces revision of / Version: 29.05.2013 / 0013

Valid from: 08.04.2014 PDF print date: 09.04.2014

Unterboden-Schutz Bitumen schwarz 500ML Art.: 6111

Persistence and degradability:	28d	54-56	%	OECD 301 B (Ready Biodegradability - Co2 Evolution Test)
Persistence and degradability:	28d	78	%	OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)
Results of PBT and vPvB assessment				No PBT substance, No vPvB substance

Endpoint	Time	Value	Unit	Organism	Test method	Notes
						Not relevant for inorganic
						substances.
						Not to be expected
						Low
						Insoluble
	Endpoint	Endpoint Time	Endpoint Time Value	Endpoint Time Value Unit	Endpoint Time Value Unit Organism	Endpoint Time Value Unit Organism Test method

Propane										
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes			
Bioaccumulative potential:	Log Pow		2,28				A notable biological accumulation potential is not to be expected (LogPow 1-3).			
Results of PBT and vPvB assessment							No PBT substance, No vPvB substance			

Butane										
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes			
Bioaccumulative potential:	Log Pow		2,98				A notable biological accumulation potential is not to be expected (LogPow 1-3).			
Results of PBT and vPvB assessment							No PBT substance, No vPvB substance			

Calcium carbonate										
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes			
Toxicity to fish:	LC50	96h	>10000	mg/l						
Toxicity to daphnia:	EC50	48h	>1000	mg/l						
Toxicity to algae:	IC50	72h	>200	mg/l						
Persistence and							Not relevant for inorganic			
degradability:							substances.			
Bioaccumulative	Log Pow		<1				Bioaccumulation is			
potential:							unlikely (LogPow < 1).			
Water solubility:			14-16	mg/l			20°C			

SECTION 13: Disposal considerations

13.1 Waste treatment methods For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2001/118/EC, 2001/119/EC, 2001/573/EC) 16 05 04 gases in pressure containers (including halons) containing dangerous substances 08 01 11 waste paint and varnish containing organic solvents or other dangerous substances Recommendation:



Page 13 of 16

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

Revised on / Version: 08.04.2014 / 0014

Replaces revision of / Version: 29.05.2013 / 0013

Valid from: 08.04.2014 PDF print date: 09.04.2014

Unterboden-Schutz Bitumen schwarz 500ML Art.: 6111

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

UN number: 1950

Transport by road/by rail (ADR/RID)

UN proper shipping name: UN 1950 AEROSOLS Transport hazard class(es):

2.1 Packing group: 5F Classification code: LQ (ADR 2013): 1 L LQ (ADR 2009): 2

Environmental hazards: environmentally hazardous

Tunnel restriction code:

Transport by sea (IMDG-code)

UN proper shipping name:

AEROSOLS (NAPHTHA (PETROLEUM))

Transport hazard class(es): 2.1 Packing group:

F-D, S-U EmS: Marine Pollutant: Yes

Environmental hazards: environmentally hazardous

Transport by air (IATA)

UN proper shipping name: Aerosols, flammable

2.1 Transport hazard class(es):

Packing group:

Environmental hazards: Not applicable

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.

Transport in bulk according to Annex II of MARPOL 73/78 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

Yes

For classification and labelling see Section 2.

Observe restrictions:

Comply with trade association/occupational health regulations.

Observe youth employment law (German regulation).

VOC 1999/13/EC 51,1% w/w (511 g/l)

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

These details refer to the product as it is delivered.















Page 14 of 16

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

Revised on / Version: 08.04.2014 / 0014

Replaces revision of / Version: 29.05.2013 / 0013

Valid from: 08.04.2014 PDF print date: 09.04.2014

Unterboden-Schutz Bitumen schwarz 500ML Art.: 6111

Revised sections: 2, 8

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 based on test data.
Aerosol 1, H229	Classification based on test data.

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

- 10 Flammable.
- 11 Highly flammable.
- 37 Irritating to respiratory system.
- 51 Toxic to aquatic organisms.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 53 May cause long-term adverse effects in the aquatic environment.
- 65 Harmful: may cause lung damage if swallowed.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.
- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- 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:

AC **Article Categories**

according, according to acc., acc. to

ACGIH American Conference of Governmental Industrial Hygienists

Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the

International Carriage of Dangerous Goods by Road)

AOEL Acceptable Operator Exposure Level

AOX Adsorbable organic halogen compounds

approx. approximately

Art., Art. no. Article number

ATF Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)

BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)

Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany) BAuA

BCF Bioconcentration factor

BGV Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation)

BHT Butylhydroxytoluol (= 2,6-Di-t-butyl-4-methyl-phenol)

BMGV Biological monitoring guidance value (EH40, UK)

BOD Biochemical oxygen demand

Bromine Science and Environmental Forum BSEF

body weight bw

CAS Chemical Abstracts Service



(GB)

Page 15 of 16

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

Revised on / Version: 08.04.2014 / 0014

Replaces revision of / Version: 29.05.2013 / 0013

Valid from: 08.04.2014 PDF print date: 09.04.2014

Unterboden-Schutz Bitumen schwarz 500ML Art.: 6111

CEC Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants and Other Fluids

CESIO Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques

CIPAC Collaborative International Pesticides Analytical Council

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

mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

COD Chemical oxygen demand

CTFA Cosmetic, Toiletry, and Fragrance Association

DMEL Derived Minimum Effect Level
DNEL Derived No Effect Level
DOC Dissolved organic carbon

DT50 Dwell Time - 50% reduction of start concentration

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

dw dry weight

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

EC European Community
ECHA European Chemicals Agency
EEA European Economic Area
EEC European Economic Community

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

EN European Norms

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

ERC Environmental Release Categories

ES Exposure scenario etc. et cetera

EU European Union EWC European Waste Catalogue

Fax. Fax number

gen. general

GHS Globally Harmonized System of Classification and Labelling of Chemicals

GWP Global warming potential

HET-CAM Hen's Egg Test - Chorionallantoic Membrane

HGWP Halocarbon Global Warming Potential
IARC International Agency for Research on Cancer
IATA International Air Transport Association
IBC Intermediate Bulk Container

IBC (Code) International Bulk Chemical (Code)

IC Inhibitory concentration

IMDG-code International Maritime Code for Dangerous Goods

incl. including, inclusive

IUCLID International Uniform Chemical Information Database

LC lethal concentration

LC50 lethal concentration 50 percent kill LCLo lowest published lethal concentration LD Lethal Dose of a chemical

LD50 Lethal Dose, 50% kill LDLo Lethal Dose Low

LOAEL Lowest Observed Adverse Effect Level
LOEC Lowest Observed Effect Concentration
LOEL Lowest Observed Effect Level

LQ Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

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

NIOSH National Institute of Occupational Safety and Health (United States of America)

NOAEC No Observed Adverse Effective Concentration

NOAEL No Observed Adverse Effect Level NOEC No Observed Effect Concentration

NOEL No Observed Effect Level ODP Ozone Depletion Potential

OECD Organisation for Economic Co-operation and Development

org. organic



(GB)

Page 16 of 16

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

Revised on / Version: 08.04.2014 / 0014

Replaces revision of / Version: 29.05.2013 / 0013

Valid from: 08.04.2014 PDF print date: 09.04.2014

Unterboden-Schutz Bitumen schwarz 500ML Art.: 6111

PAH polycyclic aromatic hydrocarbon PBT persistent, bioaccumulative and toxic

PC Chemical product category

PE Polyethylene

PNEC Predicted No Effect Concentration
POCP Photochemical ozone creation potential

ppm parts per million
PROC Process category
PTFE Polytetrafluorethylene

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)

SADT Self-Accelerating Decomposition Temperature

SAR Structure Activity Relationship

SU Sector of use

SVHC Substances of Very High Concern

Tel. Telephone

ThOD Theoretical oxygen demand

TOC Total organic carbon

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

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

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

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

WEL-TWA, WEL-STEL WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average)

reference period), WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period) (EH40, UK).

WHO World Health Organization

wwt wet weight

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

These statements were made by:

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