

Page 1 of 25  
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revision date / version: 04.03.2024 / 0026  
Replacing version dated / version: 01.11.2023 / 0025  
Valid from: 04.03.2024  
PDF print date: 08.03.2024  
Unterbodenschutz Bitumen schwarz  
Underseal Bitumen, black

## 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

**Unterbodenschutz Bitumen schwarz**  
**Underseal Bitumen, black**

#### 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 | Hazard statement                                      |
|-----------------|-----------------|---|
| Eye Irrit.      | 2               | H319-Causes serious eye irritation.                   |
| Skin Irrit.     | 2               | H315-Causes skin irritation.                          |
| Asp. Tox.       | 1               | H304-May be fatal if swallowed and enters airways.    |
| STOT SE         | 3               | H336-May cause drowsiness or dizziness.               |
| Aquatic Chronic | 2               | H411-Toxic to aquatic life with long lasting effects. |
| Aerosol         | 1               | H222-Extremely flammable aerosol.                     |
| Aerosol         | 1               | H229-Pressurised container: May burst if heated.      |

#### 2.2 Label elements

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

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

Revision date / version: 04.03.2024 / 0026

Replacing version dated / version: 01.11.2023 / 0025

Valid from: 04.03.2024

PDF print date: 08.03.2024

Unterbodenschutz Bitumen schwarz

Underseal Bitumen, black



Danger

H319-Causes serious eye irritation. H315-Causes skin irritation. H336-May cause drowsiness or dizziness. H411-Toxic to aquatic life with long lasting effects. H222-Extremely flammable aerosol. H229-Pressurised container: May burst if heated.

P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children.

P210-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211-Do not spray on an open flame or other ignition source. P251-Do not pierce or burn, even after use. P261-Avoid breathing vapours or spray. P280-Wear protective gloves and eye protection / face protection.

P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312-Call a POISON CENTRE / doctor if you feel unwell.

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

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

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

Acetone

Naphtha (petroleum), hydrotreated light

Hydrocarbons, C9, aromatics

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 (< 0,1 %).

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

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

## SECTION 3: Composition/information on ingredients

Aerosol

### 3.1 Substances

n.a.

### 3.2 Mixtures

|   |   |
|---|---|
| <b>Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics</b>                    |   |
| <b>Registration number (REACH)</b>  | 01-2119473851-33-XXXX   |
| <b>Index</b>  | ---   |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>                                 | 920-750-0   |
| <b>CAS</b>  | ---   |
| <b>content %</b>  | 10-<25  |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | EUH066<br>Flam. Liq. 2, H225<br>STOT SE 3, H336<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411 |
| <b>Naphtha (petroleum), hydrotreated light</b>                                |   |
| <b>Registration number (REACH)</b>  | 01-2119475133-43-XXXX   |
| <b>Index</b>  | 649-328-00-1  |

GB

Page 3 of 25  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 04.03.2024 / 0026  
 Replacing version dated / version: 01.11.2023 / 0025  
 Valid from: 04.03.2024  
 PDF print date: 08.03.2024  
 Unterbodenschutz Bitumen schwarz  
 Underseal Bitumen, black

|   |  |
|---|--|
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>                                 | 265-151-9  |
| <b>CAS</b>  | 64742-49-0   |
| <b>content %</b>  | 10-<25   |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | Flam. Liq. 2, H225<br>Skin Irrit. 2, H315<br>STOT SE 3, H336<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411 |

| <b>Acetone</b>  | <b>Substance for which an EU exposure limit value applies.</b>        |
|---|---|
| <b>Registration number (REACH)</b>  | 01-2119471330-49-XXXX   |
| <b>Index</b>  | 606-001-00-8  |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>                                 | 200-662-2   |
| <b>CAS</b>  | 67-64-1   |
| <b>content %</b>  | 10-<25  |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | EUH066<br>Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336 |

| <b>Hydrocarbons, C9, aromatics</b>  |  |
|---|--|
| <b>Registration number (REACH)</b>  | 01-2119455851-35-XXXX  |
| <b>Index</b>  | ---  |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>                                 | 918-668-5  |
| <b>CAS</b>  | (64742-95-6)   |
| <b>content %</b>  | 1-<3   |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | EUH066<br>Flam. Liq. 3, H226<br>STOT SE 3, H335<br>STOT SE 3, H336<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411 |

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.  
 The substances named in this section are given with their actual, appropriate classification!  
 For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.  
 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.  
 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

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.

Page 4 of 25  
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revision date / version: 04.03.2024 / 0026  
Replacing version dated / version: 01.11.2023 / 0025  
Valid from: 04.03.2024  
PDF print date: 08.03.2024  
Unterbodenschutz Bitumen schwarz  
Underseal Bitumen, black

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

In case of vomiting, keep head low so that the stomach content does not reach the lungs.

#### **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.

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.

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

Symptomatic treatment.

### **SECTION 5: Firefighting measures**

#### **5.1 Extinguishing media**

##### **Suitable extinguishing media**

Water jet spray

CO<sub>2</sub>

Extinction powder

Large fire:

Water jet spray / alcohol resistant foam

##### **Unsuitable extinguishing media**

High volume water jet

#### **5.2 Special hazards arising from the substance or mixture**

In case of fire the following can develop:

Oxides of carbon

Oxides of sulphur

Fume

Oxides of nitrogen

Toxic gases

Danger of bursting (explosion) when heated

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.

Avoid inhalation, and contact with eyes or skin.

##### **6.1.2 For emergency responders**

See section 8 for suitable protective equipment and material specifications.

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

Revision date / version: 04.03.2024 / 0026

Replacing version dated / version: 01.11.2023 / 0025

Valid from: 04.03.2024

PDF print date: 08.03.2024

Unterbodenschutz Bitumen schwarz

Underseal Bitumen, black

## 6.2 Environmental precautions

Prevent from entering drainage system.

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

## 6.3 Methods and material for containment and cleaning up

If spray or gas escapes, ensure ample fresh air is available.

Active substance:

Soak up with absorbent material (e.g. universal binding agent) and dispose of according to Section 13.

## 6.4 Reference to other sections

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

# SECTION 7: Handling and storage

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

## 7.1 Precautions for safe handling

### 7.1.1 General recommendations

Ensure good ventilation.

Avoid breathing vapours or spray.

Avoid contact with eyes or skin.

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!

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/m<sup>3</sup>

| Chemical Name                   | Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics |     |
|---------------------------------|---|-----|
| WEL-TWA: 1200 mg/m <sup>3</sup> | WEL-STEL: ---                                       | --- |
| Monitoring procedures:          | - Draeger - Hydrocarbons 0,1%/c (81 03 571)         |     |
|                                 | - Draeger - Hydrocarbons 2/a (81 03 581)            |     |
|                                 | - Compur - KITA-187 S (551 174)                     |     |

GB

Page 6 of 25  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 04.03.2024 / 0026  
 Replacing version dated / version: 01.11.2023 / 0025  
 Valid from: 04.03.2024  
 PDF print date: 08.03.2024  
 Unterbodenschutz Bitumen schwarz  
 Underseal Bitumen, black

|           |   |
|-----------|---|
| BMGV: --- | Other information: (OEL acc. to RCP-method, paragraphs 84-87, EH40) |
|-----------|---|

| GB Chemical Name | Naphtha (petroleum), hydrotreated light |  |
|------------------|---|--|
|------------------|---|--|

|  |  |     |
|--|--|-----|
| WEL-TWA: 1200 mg/m3 (>=C7 normal and branched chain alkanes) | WEL-STEL: ---  | --- |
| Monitoring procedures:                                       | <ul style="list-style-type: none"> <li>- Draeger - Hydrocarbons 0,1%/c (81 03 571)</li> <li>- Draeger - Hydrocarbons 2/a (81 03 581)</li> <li>- Compur - KITA-187 S (551 174)</li> </ul> |     |
| BMGV: ---  | Other information: ---   |     |

| GB Chemical Name | Acetone |  |
|------------------|---------|--|
|------------------|---------|--|

|   |  |     |
|---|--|-----|
| WEL-TWA: 500 ppm (1210 mg/m3) (WEL-TWA, EU) | WEL-STEL: 1500 ppm (3620 mg/m3) (WEL-STEL)   | --- |
| Monitoring procedures:                      | <ul style="list-style-type: none"> <li>- Draeger - Acetone 100/b (CH 22 901)</li> <li>- Draeger - Acetone 40/a (5) (81 03 381)</li> <li>- Compur - KITA-102 SA (548 534)</li> <li>- Compur - KITA-102 SC (548 550)</li> <li>- Compur - KITA-102 SD (551 109)</li> <li>- INSHT MTA/MA-031/A96 (Determination of ketones (acetone, methyl ethyl ketone, methyl isobutyl ketone) in air - Charcoal tube method / Gas chromatography) - 1996 - EU project BC/CEN/ENTR/000/2002-16 card 67-1 (2004)</li> <li>- MDHS 72 (Volatile organic compounds in air – Laboratory method using pumped solid sorbent tubes, thermal desorption and gas chromatography) - 1993</li> <li>- NIOSH 1300 (KETONES I) - 1994</li> <li>- NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996</li> <li>- NIOSH 2555 (KETONES I) - 2003</li> <li>- NIOSH 3800 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTIR SPECTROMETRY) - 2016</li> <li>- OSHA 69 (Acetone) - 1988</li> </ul> |     |
| BMGV: ---                                   | Other information: ---   |     |

| GB Chemical Name | Hydrocarbons, C9, aromatics |  |
|------------------|-----------------------------|--|
|------------------|-----------------------------|--|

|                                |  |     |
|--------------------------------|--|-----|
| WEL-TWA: 500 mg/m3 (Aromatics) | WEL-STEL: ---  | --- |
| Monitoring procedures:         | <ul style="list-style-type: none"> <li>- Draeger - Hydrocarbons 0,1%/c (81 03 571)</li> <li>- Draeger - Hydrocarbons 2/a (81 03 581)</li> <li>- Compur - KITA-187 S (551 174)</li> </ul> |     |
| BMGV: ---                      | Other information: ---   |     |

| GB Chemical Name | Butane |  |
|------------------|--------|--|
|------------------|--------|--|

|                               |   |     |
|-------------------------------|---|-----|
| WEL-TWA: 600 ppm (1450 mg/m3) | WEL-STEL: 750 ppm (1810 mg/m3)  | --- |
| Monitoring procedures:        | <ul style="list-style-type: none"> <li>- Compur - KITA-221 SA (549 459)</li> <li>- OSHA PV2010 (n-Butane) - 1993</li> </ul> |     |
| BMGV: ---                     | Other information: ---  |     |

| GB Chemical Name | Propane |  |
|------------------|---------|--|
|------------------|---------|--|

|                           |  |     |
|---------------------------|--|-----|
| WEL-TWA: 1000 ppm (ACGIH) | WEL-STEL: ---  | --- |
| Monitoring procedures:    | <ul style="list-style-type: none"> <li>- Compur - KITA-125 SA (549 954)</li> <li>- OSHA PV2077 (Propane) - 1990</li> </ul> |     |
| BMGV: ---                 | Other information: ---   |     |

| GB Chemical Name | Isobutane |  |
|------------------|-----------|--|
|------------------|-----------|--|

|                                |   |     |
|--------------------------------|---|-----|
| WEL-TWA: 1000 ppm (EX) (ACGIH) | WEL-STEL: ---   | --- |
| Monitoring procedures:         | <ul style="list-style-type: none"> <li>- Compur - KITA-113 SB(C) (549 368)</li> </ul> |     |
| BMGV: ---                      | Other information: ---  |     |

| GB Chemical Name | Asphalt |  |
|------------------|---------|--|
|------------------|---------|--|

|   |   |     |
|---|---|-----|
| WEL-TWA: 5 mg/m3 (Asphalt, petroleum fumes) | WEL-STEL: 10 mg/m3 (Asphalt, petroleum fumes) | --- |
| Monitoring procedures:                      | ---   |     |
| BMGV: ---                                   | Other information: ---                        |     |

| GB Chemical Name | Calcium carbonate |  |
|------------------|-------------------|--|
|------------------|-------------------|--|

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

Page 7 of 25  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 04.03.2024 / 0026  
 Replacing version dated / version: 01.11.2023 / 0025  
 Valid from: 04.03.2024  
 PDF print date: 08.03.2024  
 Unterbodenschutz Bitumen schwarz  
 Underseal Bitumen, black

| <b>Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics</b> |  |                             |            |       |                       |      |
|--|--|-----------------------------|------------|-------|-----------------------|------|
| Area of application  | Exposure route / Environmental compartment | Effect on health            | Descriptor | Value | Unit                  | Note |
| Consumer   | Human - inhalation                         | Long term, systemic effects | DNEL       | 608   | mg/m <sup>3</sup>     |      |
| Consumer   | Human - dermal                             | Long term, systemic effects | DNEL       | 699   | mg/kg bw/day          |      |
| Consumer   | Human - oral                               | Long term, systemic effects | DNEL       | 699   | mg/kg body weight/day |      |
| Workers / employees  | Human - inhalation                         | Long term, systemic effects | DNEL       | 2035  | mg/m <sup>3</sup>     |      |
| Workers / employees  | Human - dermal                             | Long term, systemic effects | DNEL       | 773   | mg/kg bw/day          |      |

| <b>Acetone</b>      |   |                             |            |       |                   |                             |
|---------------------|---|-----------------------------|------------|-------|-------------------|-----------------------------|
| Area of application | Exposure route / Environmental compartment    | Effect on health            | Descriptor | Value | Unit              | Note                        |
|                     | Environment - marine                          |                             | PNEC       | 1,06  | mg/l              | Assesment factor 500        |
|                     | Environment - freshwater                      |                             | PNEC       | 10,6  | mg/l              | Assesment factor 50         |
|                     | Environment - sediment, freshwater            |                             | PNEC       | 30,4  | mg/kg dw          |                             |
|                     | Environment - sediment, marine                |                             | PNEC       | 3,04  | mg/kg dw          |                             |
|                     | Environment - soil                            |                             | PNEC       | 29,5  | mg/kg dw          |                             |
|                     | Environment - sewage treatment plant          |                             | PNEC       | 19,5  | mg/l              |                             |
|                     | Environment - sporadic (intermittent) release |                             | PNEC       | 21    | mg/l              | Assesment factor 100        |
| Consumer            | Human - oral                                  | Long term, systemic effects | DNEL       | 62    | mg/kg bw/day      | Overall assesment factor 2  |
| Consumer            | Human - dermal                                | Long term, systemic effects | DNEL       | 62    | mg/kg bw/day      | Overall assesment factor 20 |
| Consumer            | Human - inhalation                            | Long term, systemic effects | DNEL       | 200   | mg/m <sup>3</sup> | Overall assesment factor 5  |
| Workers / employees | Human - dermal                                | Long term, systemic effects | DNEL       | 186   | mg/kg bw/day      |                             |
| Workers / employees | Human - inhalation                            | Short term, local effects   | DNEL       | 2420  | mg/m <sup>3</sup> |                             |
| Workers / employees | Human - inhalation                            | Long term, systemic effects | DNEL       | 1210  | mg/m <sup>3</sup> |                             |

| <b>Hydrocarbons, C9, aromatics</b> |  |                             |            |       |                   |      |
|------------------------------------|--|-----------------------------|------------|-------|-------------------|------|
| Area of application                | Exposure route / Environmental compartment | Effect on health            | Descriptor | Value | Unit              | Note |
| Consumer                           | Human - inhalation                         | Long term, systemic effects | DNEL       | 32    | mg/m <sup>3</sup> |      |
| Consumer                           | Human - dermal                             | Long term, systemic effects | DNEL       | 11    | mg/kg bw/day      |      |
| Consumer                           | Human - oral                               | Long term, systemic effects | DNEL       | 11    | mg/kg bw/day      |      |
| Workers / employees                | Human - dermal                             | Long term, systemic effects | DNEL       | 25    | mg/kg bw/day      |      |

GB

Page 8 of 25  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 04.03.2024 / 0026  
 Replacing version dated / version: 01.11.2023 / 0025  
 Valid from: 04.03.2024  
 PDF print date: 08.03.2024  
 Unterbodenschutz Bitumen schwarz  
 Underseal Bitumen, black

|                     |                    |                             |      |     |                   |  |
|---------------------|--------------------|-----------------------------|------|-----|-------------------|--|
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 150 | mg/m <sup>3</sup> |  |
|---------------------|--------------------|-----------------------------|------|-----|-------------------|--|

| Asphalt             |  |                          |            |       |                   |      |
|---------------------|--|--------------------------|------------|-------|-------------------|------|
| Area of application | Exposure route / Environmental compartment | Effect on health         | Descriptor | Value | Unit              | Note |
| Consumer            | Human - inhalation                         | Long term, local effects | DNEL       | 0,6   | mg/m <sup>3</sup> |      |
| Workers / employees | Human - inhalation                         | Long term, local effects | DNEL       | 2,9   | mg/m <sup>3</sup> |      |

GB - 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:  
 (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). |  
 | 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.  
 EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

### 8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.  
 Wash hands before breaks and at end of work.  
 Keep away from food, drink and animal feedingstuffs.  
 Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:  
 Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:  
 Chemical resistant protective gloves (EN ISO 374).  
 Recommended  
 Protective nitrile gloves (EN ISO 374).  
 Minimum layer thickness in mm:  
 >= 0,12  
 Permeation time (penetration time) in minutes:  
 >= 480  
 The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.  
 The recommended maximum wearing time is 50% of breakthrough time.  
 Protective hand cream recommended.



Page 9 of 25  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 04.03.2024 / 0026  
 Replacing version dated / version: 01.11.2023 / 0025  
 Valid from: 04.03.2024  
 PDF print date: 08.03.2024  
 Unterbodenschutz Bitumen schwarz  
 Underseal Bitumen, black

**Skin protection - Other:**  
 Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

**Respiratory protection:**  
 If OES or MEL is exceeded.  
 Filter A P2 (EN 14387), code colour brown, white  
 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. Active substance: liquid. 20°C              |
| Colour:   | Black  |
| Odour:  | Characteristic                                       |
| Melting point/freezing point:                             | There is no information available on this parameter. |
| Boiling point or initial boiling point and boiling range: | -44,5 °C   |
| Flammability:   | Does not apply to aerosols.                          |
| Lower explosion limit:                                    | 0,6 Vol-%  |
| Upper explosion limit:                                    | 13 Vol-%   |
| Flash point:  | <0 °C (DIN 53213 (Pensky-Martens, closed cup))       |
| Auto-ignition temperature:                                | Does not apply to aerosols.                          |
| Decomposition temperature:                                | There is no information available on this parameter. |
| pH:   | Mixture is non-soluble (in water).                   |
| Kinematic viscosity:                                      | <=20,5 mm <sup>2</sup> /s (40°C)                     |
| Solubility:   | Insoluble  |
| Partition coefficient n-octanol/water (log value):        | Does not apply to mixtures.                          |
| Vapour pressure:  | 800 hPa (50°C)                                       |
| Density and/or relative density:                          | 0,76 g/cm <sup>3</sup> (20°C, DIN 51757)             |
| Density and/or relative density:                          | 1,09 g/ml (Active substance )                        |
| Relative vapour density:                                  | Does not apply to aerosols.                          |
| Particle characteristics:                                 | Does not apply to aerosols.                          |

### 9.2 Other information

|                   |   |
|-------------------|---|
| Explosives:       | Product is not explosive. When using: development of explosive vapour/air mixture possible. |
| Solvents content: | 67,6 % (Organic solvents )  |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The product has not been tested.

### 10.2 Chemical stability

Stable with proper storage and handling.

### 10.3 Possibility of hazardous reactions

No dangerous reactions are known.

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revision date / version: 04.03.2024 / 0026  
Replacing version dated / version: 01.11.2023 / 0025  
Valid from: 04.03.2024  
PDF print date: 08.03.2024  
Unterbodenschutz Bitumen schwarz  
Underseal Bitumen, black

#### 10.4 Conditions to avoid

Pressure increase will result in danger of bursting.  
Heating, open flame, ignition sources

#### 10.5 Incompatible materials

Avoid contact with 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).

| Unterbodenschutz Bitumen schwarz<br>Underseal Bitumen, black  |          |       |      |          |             |        |
|---|----------|-------|------|----------|-------------|--------|
| Toxicity / effect   | Endpoint | Value | Unit | Organism | Test method | Notes  |
| Acute toxicity, by oral route:                                |          |       |      |          |             | n.d.a. |
| Acute toxicity, by dermal route:                              |          |       |      |          |             | n.d.a. |
| Acute toxicity, by inhalation:                                |          |       |      |          |             | n.d.a. |
| Skin corrosion/irritation:                                    |          |       |      |          |             | n.d.a. |
| Serious eye damage/irritation:                                |          |       |      |          |             | n.d.a. |
| Respiratory or skin sensitisation:                            |          |       |      |          |             | n.d.a. |
| Germ cell mutagenicity:                                       |          |       |      |          |             | n.d.a. |
| Carcinogenicity:  |          |       |      |          |             | 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. |
| Symptoms:   |          |       |      |          |             | n.d.a. |

| Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics           |          |       |         |             |  |                                |
|---|----------|-------|---------|-------------|--|--------------------------------|
| 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     | >2800 | mg/kg   | Rabbit      | OECD 402 (Acute Dermal Toxicity)                         |                                |
| Acute toxicity, by inhalation:                                | LC50     | >23,3 | mg/l/4h | Rat         | OECD 403 (Acute Inhalation Toxicity)                     | Aerosol                        |
| Skin corrosion/irritation:                                    |          |       |         | Rabbit      | OECD 404 (Acute Dermal Irritation/Corrosion)             | Not irritant                   |
| Serious eye damage/irritation:                                |          |       |         | Rabbit      |  | Not irritant                   |
| Respiratory or skin sensitisation:                            |          |       |         | Guinea pig  | OECD 406 (Skin Sensitisation)                            | Not sensitizing                |
| Germ cell mutagenicity:                                       |          |       |         |             | OECD 471 (Bacterial Reverse Mutation Test)               | Negative                       |
| Germ cell mutagenicity:                                       |          |       |         | Human being | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)    | Negative, Analogous conclusion |
| Germ cell mutagenicity:                                       |          |       |         | Mouse       | OECD 474 (Mammalian Erythrocyte Micronucleus Test)       | Negative                       |
| Reproductive toxicity:  | NOAEL    | 9000  | ppm     |             | OECD 416 (Two-generation Reproduction Toxicity Study)    | Negative                       |
| Specific target organ toxicity - repeated exposure (STOT-RE): | NOAEC    | 5,8   | mg/l    |             | OECD 413 (Subchronic Inhalation Toxicity - 90-Day Study) |                                |

Page 11 of 25  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 04.03.2024 / 0026  
 Replacing version dated / version: 01.11.2023 / 0025  
 Valid from: 04.03.2024  
 PDF print date: 08.03.2024  
 Unterbodenschutz Bitumen schwarz  
 Underseal Bitumen, black

|                    |  |  |  |  |  |  |
|--------------------|--|--|--|--|--|--|
| Aspiration hazard: |  |  |  |  |  | Yes  |
| Symptoms:          |  |  |  |  |  | drowsiness, unconsciousness, heart/circulatory disorders, headaches, cramps, drowsiness, mucous membrane irritation, dizziness, nausea and vomiting. |

| Naphtha (petroleum), hydrotreated light |          |       |       |          |             |  |
|---|----------|-------|-------|----------|-------------|--|
| Toxicity / effect                       | Endpoint | Value | Unit  | Organism | Test method | Notes  |
| Acute toxicity, by oral route:          | LD50     | >6800 | mg/kg | Rat      |             |  |
| Acute toxicity, by dermal route:        | LD50     | >3400 | mg/kg | Rabbit   |             |  |
| Skin corrosion/irritation:              |          |       |       |          |             | Repeated exposure may cause skin dryness or cracking.  |
| Germ cell mutagenicity:                 |          |       |       |          |             | Negative   |
| Aspiration hazard:                      |          |       |       |          |             | Yes  |
| Symptoms:                               |          |       |       |          |             | drowsiness, unconsciousness, heart/circulatory disorders, headaches, cramps, drowsiness, mucous membrane irritation, dizziness, nausea and vomiting. |

| Acetone                            |          |        |         |                        |   |   |
|------------------------------------|----------|--------|---------|------------------------|---|---|
| Toxicity / effect                  | Endpoint | Value  | Unit    | Organism               | Test method   | Notes   |
| Acute toxicity, by oral route:     | LD50     | 5800   | mg/kg   | Rat                    | OECD 401 (Acute Oral Toxicity)                        |   |
| Acute toxicity, by dermal route:   | LD50     | >15800 | mg/kg   | Rat                    |   |   |
| Acute toxicity, by inhalation:     | LC50     | 76     | mg/l/4h | Rat                    |   |   |
| Skin corrosion/irritation:         |          |        |         | Guinea pig             |   | Not irritant, Repeated exposure may cause skin dryness or cracking. |
| Serious eye damage/irritation:     |          |        |         | Rabbit                 | OECD 405 (Acute Eye Irritation/Corrosion)             | Eye Irrit. 2  |
| Respiratory or skin sensitisation: |          |        |         | Guinea pig             | OECD 406 (Skin Sensitisation)                         | Not sensitising   |
| Germ cell mutagenicity:            |          |        |         | Mouse                  | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test) | Negative  |
| Germ cell mutagenicity:            |          |        |         | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test)            | Negative  |

Page 12 of 25  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 04.03.2024 / 0026  
 Replacing version dated / version: 01.11.2023 / 0025  
 Valid from: 04.03.2024  
 PDF print date: 08.03.2024  
 Unterbodenschutz Bitumen schwarz  
 Underseal Bitumen, black

|   |       |     |            |           |  |   |
|---|-------|-----|------------|-----------|--|---|
| Germ cell mutagenicity:   |       |     |            | Mammalian | OECD 473 (In Vitro Mammalian Chromosome Aberration Test)       | Negative  |
| Carcinogenicity:  |       |     |            | Mouse     |  | Negative, References  |
| Specific target organ toxicity - single exposure (STOT-SE):         |       |     |            |           |  | STOT SE 3, H336   |
| Reproductive toxicity (Developmental toxicity):                     |       |     |            | Rat       | OECD 414 (Prenatal Developmental Toxicity Study)               | Negative  |
| Symptoms:   |       |     |            |           |  | unconsciousness, vomiting, headaches, gastrointestinal disturbances, fatigue, mucous membrane irritation, dizziness, nausea, drowsiness |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOAEL | 900 | mg/kg bw/d | Rat       | OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) |   |

| 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 Toxicity)  |   |
| Acute toxicity, by dermal route:   | LD50     | >3160  | mg/kg   | Rabbit     | OECD 402 (Acute Dermal Toxicity)  |   |
| Acute toxicity, by inhalation:     | LC50     | >5,693 | mg/l/4h | Rat        | OECD 403 (Acute Inhalation Toxicity)  | Analogous conclusion                                  |
| Acute toxicity, by inhalation:     | LC50     | >6,193 | mg/l/4h | Rat        | OECD 403 (Acute Inhalation Toxicity)  | Vapours   |
| Skin corrosion/irritation:         |          |        |         |            |   | Repeated exposure may cause skin dryness or cracking. |
| Skin corrosion/irritation:         |          |        |         | Rabbit     | OECD 404 (Acute Dermal Irritation/Corrosion)  | Not irritant  |
| Serious eye damage/irritation:     |          |        |         | Rabbit     | OECD 405 (Acute Eye Irritation/Corrosion)   | Not irritant  |
| Respiratory or skin sensitisation: |          |        |         | Guinea pig | OECD 406 (Skin Sensitisation)   | No (skin contact)                                     |
| Germ cell mutagenicity:            |          |        |         |            | OECD 475 (Mammalian Bone Marrow Chromosome Aberration Test)                                 | Negative  |
| Germ cell mutagenicity:            |          |        |         |            | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)                                       | Negative  |
| Germ cell mutagenicity:            |          |        |         |            | OECD 479 (Genetic Toxicology - In Vitro Sister Chromatid Exchange assay in Mammalian Cells) | Negative  |

Page 13 of 25  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 04.03.2024 / 0026  
 Replacing version dated / version: 01.11.2023 / 0025  
 Valid from: 04.03.2024  
 PDF print date: 08.03.2024  
 Unterbodenschutz Bitumen schwarz  
 Underseal Bitumen, black

|   |  |  |  |                        |  |  |
|---|--|--|--|------------------------|--|--|
| Germ cell mutagenicity:                                       |  |  |  | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test)                     | Negative, Analogous conclusion   |
| Carcinogenicity:  |  |  |  |                        |  | Negative   |
| Reproductive toxicity:  |  |  |  | Rat                    | OECD 421 (Reproduction/Developmental Toxicity Screening Test)  | Negative, Analogous conclusion   |
| Reproductive toxicity:  |  |  |  |                        | OECD 414 (Prenatal Developmental Toxicity Study)               | Negative   |
| Reproductive toxicity:  |  |  |  |                        | OECD 416 (Two-generation Reproduction Toxicity Study)          | Negative   |
| 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): |  |  |  |                        | OECD 452 (Chronic Toxicity Studies)                            | Negative   |
| Aspiration hazard:  |  |  |  |                        |  | 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. |

| Butane  |          |        |         |                        |  |          |
|---|----------|--------|---------|------------------------|--|----------|
| Toxicity / effect   | Endpoint | Value  | Unit    | Organism               | Test method  | Notes    |
| Acute toxicity, by inhalation:  | LC50     | 658    | mg/l/4h | Rat                    |  |          |
| Germ cell mutagenicity:   |          |        |         | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test)   | Negative |
| Germ cell mutagenicity:   |          |        |         |                        | OECD 473 (In Vitro Mammalian Chromosome Aberration Test)   | Negative |
| Germ cell mutagenicity:   |          |        |         | Human being            | OECD 473 (In Vitro Mammalian Chromosome Aberration Test)   | Negative |
| Germ cell mutagenicity:   |          |        |         | Rat                    | OECD 474 (Mammalian Erythrocyte Micronucleus Test)   | Negative |
| Aspiration hazard:  |          |        |         |                        |  | No       |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEC    | 21,394 | mg/l    | Rat                    | OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developmental Tox. Screening Test) |          |

Page 14 of 25  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 04.03.2024 / 0026  
 Replacing version dated / version: 01.11.2023 / 0025  
 Valid from: 04.03.2024  
 PDF print date: 08.03.2024  
 Unterbodenschutz Bitumen schwarz  
 Underseal Bitumen, black

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

| Propane   |          |        |         |                        |  |  |
|---|----------|--------|---------|------------------------|--|--|
| Toxicity / effect   | Endpoint | Value  | Unit    | Organism               | Test method  | Notes  |
| Acute toxicity, by inhalation:  | LC50     | 658    | mg/l/4h | Rat                    |  |  |
| Acute toxicity, by inhalation:  | LC50     | 260000 | ppmV/4h | Rat                    |  | Gasses, Male, Analogous conclusion   |
| Skin corrosion/irritation:  |          |        |         |                        |  | Not irritant   |
| Serious eye damage/irritation:  |          |        |         |                        |  | Not irritant   |
| Germ cell mutagenicity:   |          |        |         |                        | OECD 473 (In Vitro Mammalian Chromosome Aberration Test)   | Negative   |
| Germ cell mutagenicity:   |          |        |         | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test)   | Negative   |
| Reproductive toxicity (Developmental toxicity):                         | NOAEC    | 21,641 | mg/l    |                        | OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developm. Tox. Screening Test) |  |
| Aspiration hazard:  |          |        |         |                        |  | No   |
| Symptoms:   |          |        |         |                        |  | breathing difficulties, unconsciousness, frostbite, headaches, cramps, mucous membrane irritation, dizziness, nausea and vomiting. |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEL    | 7,214  | mg/l    | Rat                    | OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developm. Tox. Screening Test) |  |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | LOAEL    | 21,641 | mg/l    | Rat                    | OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developm. Tox. Screening Test) |  |

| Isobutane                      |          |        |         |          |             |              |
|--------------------------------|----------|--------|---------|----------|-------------|--------------|
| Toxicity / effect              | Endpoint | Value  | Unit    | Organism | Test method | Notes        |
| Acute toxicity, by inhalation: | LC50     | 658    | mg/l/4h | Rat      |             |              |
| Acute toxicity, by inhalation: | LC50     | 260000 | ppmV/4h | Rat      |             | Gasses, Male |
| Serious eye damage/irritation: |          |        |         | Rabbit   |             | Not irritant |

Page 15 of 25  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 04.03.2024 / 0026  
 Replacing version dated / version: 01.11.2023 / 0025  
 Valid from: 04.03.2024  
 PDF print date: 08.03.2024  
 Unterbodenschutz Bitumen schwarz  
 Underseal Bitumen, black

|   |       |        |      |                        |  |  |
|---|-------|--------|------|------------------------|--|--|
| Germ cell mutagenicity:   |       |        |      | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test)   | Negative   |
| Aspiration hazard:  |       |        |      |                        |  | No   |
| Symptoms:   |       |        |      |                        |  | unconsciousness, frostbite, headaches, cramps, dizziness, nausea and vomiting. |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEL | 21,394 | mg/l | Rat                    | OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developm. Tox. Screening Test) |  |

| 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 Inhalation Toxicity)                     | Analogous conclusion                 |
| Skin corrosion/irritation:  |          |        |            | Rabbit     | OECD 404 (Acute Dermal Irritation/Corrosion)             | Not irritant                         |
| Serious eye damage/irritation:  |          |        |            | Rabbit     | OECD 405 (Acute Eye Irritation/Corrosion)                | Not irritant                         |
| Respiratory or skin sensitisation:                                    |          |        |            | Guinea pig | OECD 406 (Skin Sensitisation)                            | No (skin contact)                    |
| Germ cell mutagenicity:   |          |        |            |            | OECD 473 (In Vitro Mammalian Chromosome Aberration Test) | Negative Chinese hamster             |
| Reproductive toxicity:  | NOAEL    | 1000   | mg/kg bw/d | Rat        | OECD 416 (Two-generation Reproduction Toxicity Study)    |                                      |
| Symptoms:   |          |        |            |            |  | vomiting, mucous membrane irritation |
| Specific target organ toxicity - repeated exposure (STOT-RE), dermal: | NOAEL    | > 2000 | mg/kg bw/d | Rabbit     | OECD 410 (Repeated Dose Dermal Toxicity - 90-Day)        |                                      |

| 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 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 Dermal Irritation/Corrosion)         | Not irritant                                  |
| Serious eye damage/irritation:   |          |       |         | Rabbit   | OECD 405 (Acute Eye Irritation/Corrosion)            | Not irritant, Mechanical irritation possible. |

Page 16 of 25  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 04.03.2024 / 0026  
 Replacing version dated / version: 01.11.2023 / 0025  
 Valid from: 04.03.2024  
 PDF print date: 08.03.2024  
 Unterbodenschutz Bitumen schwarz  
 Underseal Bitumen, black

|                                    |  |  |  |  |          |  |
|------------------------------------|--|--|--|--|----------|--|
| Respiratory or skin sensitisation: |  |  |  |  |          | No (skin contact)                      |
| Germ cell mutagenicity:            |  |  |  |  | in vitro | Negative                               |
| Carcinogenicity:                   |  |  |  |  |          | Negative, administered as Ca-lactate   |
| Reproductive toxicity:             |  |  |  |  |          | Negative, administered as Ca-carbonate |

## 11.2. Information on other hazards

| Unterbodenschutz Bitumen schwarz<br>Underseal Bitumen, black |          |       |      |          |             |   |
|--|----------|-------|------|----------|-------------|---|
| Toxicity / effect  | Endpoint | Value | Unit | Organism | Test method | Notes   |
| Endocrine disrupting properties:                             |          |       |      |          |             | Does not apply to mixtures.   |
| Other information:   |          |       |      |          |             | No other relevant information available on adverse effects on health. |

## SECTION 12: Ecological information

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

| Unterbodenschutz Bitumen schwarz<br>Underseal Bitumen, black |          |      |       |      |          |             |  |
|--|----------|------|-------|------|----------|-------------|--|
| 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 degradability:                         |          |      |       |      |          |             | n.d.a.   |
| 12.3. Bioaccumulative potential:                             |          |      |       |      |          |             | n.d.a.   |
| 12.4. Mobility in soil:                                      |          |      |       |      |          |             | n.d.a.   |
| 12.5. Results of PBT and vPvB assessment                     |          |      |       |      |          |             | n.d.a.   |
| 12.6. Endocrine disrupting properties:                       |          |      |       |      |          |             | Does not apply to mixtures.  |
| 12.7. Other adverse effects:                                 |          |      |       |      |          |             | No information available on other adverse effects on the environment.      |
| Other information:   |          |      |       |      |          |             | DOC-elimination degree (complexing organic substance) $\geq$ 80%/28d: n.a. |
| Other information:   | AOX      |      |       | %    |          |             | According to the recipe, contains no AOX.                                  |

| Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics |          |      |       |      |                     |                                      |       |
|---|----------|------|-------|------|---------------------|--------------------------------------|-------|
| Toxicity / effect                                   | Endpoint | Time | Value | Unit | Organism            | Test method                          | Notes |
| 12.1. Toxicity to fish:                             | LL50     | 96h  | 3-10  | mg/l | Oncorhynchus mykiss | OECD 203 (Fish, Acute Toxicity Test) |       |



Page 17 of 25  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 04.03.2024 / 0026  
 Replacing version dated / version: 01.11.2023 / 0025  
 Valid from: 04.03.2024  
 PDF print date: 08.03.2024  
 Unterbodenschutz Bitumen schwarz  
 Underseal Bitumen, black

|  |         |     |        |      |                                 |  |  |
|--|---------|-----|--------|------|---------------------------------|--|--|
| 12.1. Toxicity to daphnia:               | EL50    | 48h | 4,6-10 | mg/l | Daphnia magna                   | OECD 202 (Daphnia sp. Acute Immobilisation Test)                   |  |
| 12.1. Toxicity to algae:                 | LC50    | 72h | 10     | mg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test)                            |  |
| 12.2. Persistence and degradability:     |         | 28d | 98     | %    |                                 | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | Analogous conclusion   |
| 12.3. Bioaccumulative potential:         | Log Pow |     | 4-5,7  |      |                                 |  | A notable biological accumulation potential has to be expected (LogPow > 3). |
| 12.5. Results of PBT and vPvB assessment |         |     |        |      |                                 |  | No PBT substance, No vPvB substance calculated value                         |
| Toxicity to bacteria:                    | EL50    | 48h | 11,14  | mg/l |                                 |  |  |

#### Naphtha (petroleum), hydrotreated light

| Toxicity / effect                    | Endpoint | Time | Value | Unit | Organism         | Test method  | Notes                 |
|--------------------------------------|----------|------|-------|------|------------------|--|-----------------------|
| 12.1. Toxicity to daphnia:           | LC50     | 48h  | 3     | mg/l | Daphnia magna    |  |                       |
| 12.1. Toxicity to daphnia:           | EL50     | 48h  | 4,5   | mg/l | Daphnia magna    | OECD 202 (Daphnia sp. Acute Immobilisation Test)                   |                       |
| 12.2. Persistence and degradability: |          | 28d  | 77,05 | %    | activated sludge | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | Readily biodegradable |

#### Acetone

| Toxicity / effect          | Endpoint  | Time | Value      | Unit | Organism                        | Test method                                      | Notes                        |
|----------------------------|-----------|------|------------|------|---------------------------------|--|------------------------------|
| 12.1. Toxicity to fish:    | LC50      | 96h  | 5540       | mg/l | Oncorhynchus mykiss             |  |                              |
| 12.1. Toxicity to fish:    | LC50      | 96h  | 7500       | mg/l | Leuciscus idus                  |  |                              |
| 12.1. Toxicity to fish:    | LC50      | 96h  | 8300       | mg/l | Lepomis macrochirus             |  |                              |
| 12.1. Toxicity to fish:    | EC50      | 96h  | 8300       | mg/l | Lepomis macrochirus             |  |                              |
| 12.1. Toxicity to daphnia: | NOEC/NOEL | 28d  | 2212       | mg/l | Daphnia pulex                   | OECD 211 (Daphnia magna Reproduction Test)       |                              |
| 12.1. Toxicity to daphnia: | EC50      | 48h  | 6100-12700 | mg/l | Daphnia magna                   |  |                              |
| 12.1. Toxicity to daphnia: | EC50      | 48h  | 8800       | mg/l | Daphnia pulex                   | OECD 202 (Daphnia sp. Acute Immobilisation Test) |                              |
| 12.1. Toxicity to algae:   | EC50      | 48h  | 4740       | mg/l | Pseudokirchneriella subcapitata |  |                              |
| 12.1. Toxicity to algae:   | NOEC/NOEL | 48h  | 3400       | mg/l | Pseudokirchneriella subcapitata |  |                              |
| 12.1. Toxicity to algae:   | NOEC/NOEL | 8d   | 530        | mg/l |                                 | DIN 38412 T.9                                    | Test organism: M. aeruginosa |

Page 18 of 25  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 04.03.2024 / 0026  
 Replacing version dated / version: 01.11.2023 / 0025  
 Valid from: 04.03.2024  
 PDF print date: 08.03.2024  
 Unterbodenschutz Bitumen schwarz  
 Underseal Bitumen, black

|  |         |       |           |      |                            |   |                                     |
|--|---------|-------|-----------|------|----------------------------|---|-------------------------------------|
| 12.2. Persistence and degradability:     |         | 30d   | 81-92     | %    |                            | Regulation (EC) 440/2008 C.4-E (DETERMINATION OF 'READY' BIODEGRADABILITY - CLOSED BOTTLE TEST) | Readily biodegradable               |
| 12.2. Persistence and degradability:     |         | 28d   | 91        | %    |                            | OECD 301 A (Ready Biodegradability - DOC Die-Away Test)   | Readily biodegradable               |
| 12.2. Persistence and degradability:     |         | 28d   | 91        | %    |                            | OECD 301 B (Ready Biodegradability - Co2 Evolution Test)  | Readily biodegradable               |
| 12.3. Bioaccumulative potential:         | Log Pow |       | -0,24     |      |                            | OECD 107 (Partition Coefficient (n-octanol/water) - Shake Flask Method)                         |                                     |
| 12.3. Bioaccumulative potential:         | BCF     |       | 0,19      |      |                            |   | Low                                 |
| 12.4. Mobility in soil:                  |         |       |           |      |                            |   | No adsorption in soil.              |
| 12.5. Results of PBT and vPvB assessment |         |       |           |      |                            |   | No PBT substance, No vPvB substance |
| Toxicity to bacteria:                    | EC10    | 30min | 1000      | mg/l | activated sludge           | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))        |                                     |
| Toxicity to bacteria:                    | BOD/COD | 16h   | 1700      | mg/l | <i>Pseudomonas putida</i>  |   |                                     |
| Other organisms:                         | EC5     | 72h   | 28        | mg/l | <i>Entosiphon sulcatum</i> |   |                                     |
| Other information:                       | BOD5    |       | 1760-1900 | mg/g |                            |   |                                     |
| Other information:                       | AOX     |       | 0         | %    |                            |   |                                     |
| Other information:                       | COD     |       | 2070-2100 | mg/g |                            |   |                                     |

#### Hydrocarbons, C9, aromatics

| Toxicity / effect          | Endpoint | Time | Value | Unit | Organism                               | Test method                                      | Notes |
|----------------------------|----------|------|-------|------|--|--|-------|
| 12.1. Toxicity to fish:    | LC50     | 96h  | 9,2   | mg/l | <i>Oncorhynchus mykiss</i>             | OECD 203 (Fish, Acute Toxicity Test)             |       |
| 12.1. Toxicity to daphnia: | EC50     | 48h  | 3,2   | mg/l | <i>Daphnia magna</i>                   | OECD 202 (Daphnia sp. Acute Immobilisation Test) |       |
| 12.1. Toxicity to algae:   | ErL50    | 72h  | 2,9   | mg/l | <i>Pseudokirchneriella subcapitata</i> | OECD 201 (Alga, Growth Inhibition Test)          |       |

Page 19 of 25  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 04.03.2024 / 0026  
 Replacing version dated / version: 01.11.2023 / 0025  
 Valid from: 04.03.2024  
 PDF print date: 08.03.2024  
 Unterbodenschutz Bitumen schwarz  
 Underseal Bitumen, black

|  |         |       |           |      |                  |  |                                     |
|--|---------|-------|-----------|------|------------------|--|-------------------------------------|
| 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 and vPvB assessment |         |       |           |      |                  |  | No PBT substance, No vPvB substance |
| Toxicity to bacteria:                    | EC50    | 10min | >99       | mg/l | activated sludge | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) |                                     |

#### Butane

| Toxicity / effect                        | Endpoint | Time | Value | Unit | Organism | Test method | Notes   |
|--|----------|------|-------|------|----------|-------------|---|
| 12.1. Toxicity to fish:                  | LC50     | 96h  | 24,11 | mg/l |          | QSAR        |   |
| 12.1. Toxicity to daphnia:               | LC50     | 48h  | 14,22 | mg/l |          | QSAR        |   |
| 12.3. Bioaccumulative potential:         | Log Pow  |      | 2,98  |      |          |             | A notable biological accumulation potential is not to be expected (LogPow 1-3). |
| 12.4. Mobility in soil:                  |          |      |       |      |          |             | Not to be expected  |
| 12.5. Results of PBT and vPvB assessment |          |      |       |      |          |             | No PBT substance, No vPvB substance   |

#### Propane

| Toxicity / effect                        | Endpoint | Time | Value | Unit | Organism | Test method | Notes   |
|--|----------|------|-------|------|----------|-------------|---|
| 12.3. Bioaccumulative potential:         | Log Pow  |      | 2,28  |      |          |             | A notable biological accumulation potential is not to be expected (LogPow 1-3). |
| 12.5. Results of PBT and vPvB assessment |          |      |       |      |          |             | No PBT substance, No vPvB substance   |

#### Isobutane

| Toxicity / effect                    | Endpoint | Time | Value | Unit | Organism | Test method | Notes                 |
|--------------------------------------|----------|------|-------|------|----------|-------------|-----------------------|
| 12.1. Toxicity to fish:              | LC50     | 96h  | 27,98 | mg/l |          |             |                       |
| 12.1. Toxicity to algae:             | EC50     | 96h  | 7,71  | mg/l |          |             |                       |
| 12.2. Persistence and degradability: |          |      |       |      |          |             | Readily biodegradable |

Page 20 of 25  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 04.03.2024 / 0026  
 Replacing version dated / version: 01.11.2023 / 0025  
 Valid from: 04.03.2024  
 PDF print date: 08.03.2024  
 Unterbodenschutz Bitumen schwarz  
 Underseal Bitumen, black

|  |  |  |  |  |  |  |   |
|--|--|--|--|--|--|--|---|
| 12.3. Bioaccumulative potential:         |  |  |  |  |  |  | A notable biological accumulation potential is not to be expected (LogPow 1-3). |
| 12.5. Results of PBT and vPvB assessment |  |  |  |  |  |  | No PBT substance, No vPvB substance   |

| Asphalt                                  |           |      |         |      |                                 |             |                                     |
|--|-----------|------|---------|------|---------------------------------|-------------|-------------------------------------|
| Toxicity / effect                        | Endpoint  | Time | Value   | Unit | Organism                        | Test method | Notes                               |
| 12.1. Toxicity to fish:                  | LL50      | 96h  | > 1000  | mg/l | Oncorhynchus mykiss             | QSAR        | Analogous conclusion                |
| 12.1. Toxicity to fish:                  | NOEC/NOEL | 28d  | >= 1000 | mg/l | Oncorhynchus mykiss             | QSAR        | Analogous conclusion                |
| 12.1. Toxicity to daphnia:               | NOEC/NOEL | 21d  | >= 1000 | mg/l | Daphnia magna                   | QSAR        | Analogous conclusion                |
| 12.1. Toxicity to daphnia:               | LL50      | 48h  | > 1000  | mg/l | Daphnia magna                   | QSAR        | Analogous conclusion                |
| 12.1. Toxicity to algae:                 | EL50      | 72h  | > 1000  | mg/l | Pseudokirchneriella subcapitata | QSAR        | Analogous conclusion                |
| 12.2. Persistence and degradability:     |           |      |         |      |                                 |             | Not biodegradable                   |
| 12.3. Bioaccumulative potential:         | Log Kow   |      | >6      |      |                                 |             | High                                |
| 12.5. Results of PBT and vPvB assessment |           |      |         |      |                                 |             | No PBT substance, No vPvB substance |

| Calcium carbonate                        |          |      |        |      |                         |  |   |
|--|----------|------|--------|------|-------------------------|--|---|
| 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)          |   |
| 12.2. Persistence and degradability:     |          |      |        |      |                         |  | Inorganic products cannot be eliminated from water through biological purification methods. |
| 12.3. Bioaccumulative potential:         |          |      |        |      |                         |  | Not relevant for inorganic substances.  |
| 12.4. Mobility in soil:                  |          |      |        |      |                         |  | Not relevant for inorganic substances.  |
| 12.5. Results of PBT and vPvB assessment |          |      |        |      |                         |  | Not relevant for inorganic substances.  |

Page 21 of 25  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 04.03.2024 / 0026  
 Replacing version dated / version: 01.11.2023 / 0025  
 Valid from: 04.03.2024  
 PDF print date: 08.03.2024  
 Unterbodenschutz Bitumen schwarz  
 Underseal Bitumen, black

| 12.6. Endocrine disrupting properties: |      |    |       |      |                  |  | Not to be expected |
|--|------|----|-------|------|------------------|--|--------------------|
| Toxicity to bacteria:                  | EC50 | 3h | >1000 | mg/l | activated sludge | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) |                    |
| Toxicity to annelids:                  |      |    |       |      | Eisenia foetida  | OECD 207 (Earthworm, Acute Toxicity Tests)   | Negative           |

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)

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

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

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

Take full aerosol cans to problem waste collection.

Take emptied aerosol cans to valuable material collection.

#### For contaminated packing material

Pay attention to local and national official regulations.

Recommendation:

Do not perforate, cut up or weld uncleaned container.



## SECTION 14: Transport information

### General statements

#### Transport by road/by rail (ADR/RID)

|                                   |                           |   |
|-----------------------------------|---------------------------|---|
| 14.1. UN number or ID number:     | 1950                      |   |
| 14.2. UN proper shipping name:    |                           |   |
| UN 1950 AEROSOLS                  |                           |   |
| 14.3. Transport hazard class(es): | 2.1                       |  |
| 14.4. Packing group:              | -                         |  |
| 14.5. Environmental hazards:      | environmentally hazardous |   |
| Tunnel restriction code:          | D                         |   |
| Classification code:              | 5F                        |   |
| LQ:                               | 1 L                       |   |
| Transport category:               | 2                         |   |

#### Transport by sea (IMDG-code)

|   |                           |   |
|---|---------------------------|---|
| 14.1. UN number or ID number:                               | 1950                      |   |
| 14.2. UN proper shipping name:                              |                           |   |
| UN 1950 AEROSOLS (HYDROCARBONS, C7-C9, NAPHTHA (PETROLEUM)) |                           |   |
| 14.3. Transport hazard class(es):                           | 2.1                       |  |
| 14.4. Packing group:  | -                         |  |
| 14.5. Environmental hazards:                                | environmentally hazardous |   |
| Marine Pollutant:   | Yes                       |   |
| EmS:  | F-D, S-U                  |   |

#### Transport by air (IATA)

|                               |      |
|-------------------------------|------|
| 14.1. UN number or ID number: | 1950 |
|-------------------------------|------|

GB

Page 22 of 25  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 04.03.2024 / 0026  
 Replacing version dated / version: 01.11.2023 / 0025  
 Valid from: 04.03.2024  
 PDF print date: 08.03.2024  
 Unterbodenschutz Bitumen schwarz  
 Underseal Bitumen, black

14.2. UN proper shipping name:  
 UN 1950 Aerosols, flammable  
 14.3. Transport hazard class(es): 2.1  
 14.4. Packing group: -  
 14.5. Environmental hazards: Not applicable



**14.6. Special precautions for user**

Persons employed in transporting dangerous goods must be trained.  
 All persons involved in transporting must observe safety regulations.  
 Precautions must be taken to prevent damage.

**14.7. Maritime transport in bulk according to IMO instruments**

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**

Observe restrictions:

Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)!  
 This product is regulated by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.  
 For exceptions see Regulation (EU) 2019/1148 and guidelines for the implementation of Regulation (EU) 2019/1148.  
 Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)!  
 Comply with trade association/occupational health regulations.

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

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

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

Directive 2012/18/EU ("Seveso III"), Annex I, Part 2 - This product contains the substances listed below:

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

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

Directive 2010/75/EU (VOC): 71,33 %

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**

Page 23 of 25  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 04.03.2024 / 0026  
 Replacing version dated / version: 01.11.2023 / 0025  
 Valid from: 04.03.2024  
 PDF print date: 08.03.2024  
 Unterbodenschutz Bitumen schwarz  
 Underseal Bitumen, black

Revised sections: 2  
 Employee training in handling dangerous goods is required.  
 These details refer to the product as it is delivered.  
 Employee instruction/training in handling hazardous materials is required.

### Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

| Classification in accordance with regulation (EC) No. 1272/2008 (CLP) | Evaluation method used                              |
|---|---|
| Eye Irrit. 2, H319  | Classification according to calculation procedure.  |
| Skin Irrit. 2, H315   | Classification according to calculation procedure.  |
| Asp. Tox. 1, H304   | Classification according to calculation procedure.  |
| STOT SE 3, H336   | Classification according to calculation procedure.  |
| Aquatic Chronic 2, H411   | Classification according to calculation procedure.  |
| Aerosol 1, H222   | Classification according to calculation procedure.  |
| Aerosol 1, H229   | Classification based on the form or physical state. |

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

H225 Highly flammable liquid and vapour.  
 H226 Flammable liquid and vapour.  
 H304 May be fatal if swallowed and enters airways.  
 H315 Causes skin irritation.  
 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.

Eye Irrit. — Eye irritation  
 Skin Irrit. — Skin irritation  
 Asp. Tox. — Aspiration hazard  
 STOT SE — Specific target organ toxicity - single exposure - narcotic effects  
 Aquatic Chronic — Hazardous to the aquatic environment - chronic  
 Aerosol — Aerosols  
 Flam. Liq. — Flammable liquid  
 STOT SE — Specific target organ toxicity - single exposure - respiratory tract 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.  
 ECHA Homepage - Information about chemicals.  
 GESTIS Substance Database (Germany).  
 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:

acc., acc. to according, according to  
 ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 AOX Adsorbable organic halogen compounds

Page 24 of 25  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 04.03.2024 / 0026  
 Replacing version dated / version: 01.11.2023 / 0025  
 Valid from: 04.03.2024  
 PDF print date: 08.03.2024  
 Unterbodenschutz Bitumen schwarz  
 Underseal Bitumen, black

approx. approximately  
 Art., Art. no. Article number  
 ASTM ASTM International (American Society for Testing and Materials)  
 ATE Acute Toxicity Estimate  
 BAM Bundesanstalt für Materialforschung und -prüfung (= Federal Institute for Materials Research and Testing, Germany)  
 BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)  
 BCF Bioconcentration factor  
 BSEF The International Bromine Council  
 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  
 e.g. for example (abbreviation of Latin 'exempli gratia'), for instance  
 EbCx, EyCx, Eblx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants)  
 EC European Community  
 ECHA European Chemicals Agency  
 ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect  
 EEC European Economic Community  
 EINECS European Inventory of Existing Commercial Chemical Substances  
 ELINCS European List of Notified Chemical Substances  
 EN European Norms  
 EPA United States Environmental Protection Agency (United States of America)  
 ErCx, EµCx, 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. Fax number  
 gen. general  
 GHS Globally Harmonized System of Classification and Labelling of Chemicals  
 GWP Global warming potential  
 Koc Adsorption coefficient of organic carbon in the soil  
 Kow octanol-water partition coefficient  
 IARC International Agency for Research on Cancer  
 IATA International Air Transport Association  
 IBC (Code) International Bulk Chemical (Code)  
 IMDG-code International Maritime Code for Dangerous Goods  
 incl. including, inclusive  
 IUCLID International Uniform Chemical Information Database  
 IUPAC International Union for Pure Applied Chemistry  
 LC50 Lethal Concentration to 50 % of a test population  
 LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)  
 Log Koc Logarithm of adsorption coefficient of organic carbon in the soil  
 Log Kow, Log Pow Logarithm of octanol-water partition coefficient  
 LQ Limited Quantities  
 MARPOL International Convention for the Prevention of Marine Pollution from Ships  
 mg/kg bw mg/kg body weight  
 mg/kg bw/d, mg/kg bw/day mg/kg body weight/day  
 mg/kg dw mg/kg dry weight  
 mg/kg wwt mg/kg wet weight  
 n.a. not applicable  
 n.av. not available  
 n.c. not checked  
 n.d.a. no data available  
 NIOSH National Institute for Occupational Safety and Health (USA)  
 NLP 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



Page 25 of 25  
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revision date / version: 04.03.2024 / 0026  
Replacing version dated / version: 01.11.2023 / 0025  
Valid from: 04.03.2024  
PDF print date: 08.03.2024  
Unterbodenschutz Bitumen schwarz  
Underseal Bitumen, black

PE Polyethylene  
PNEC Predicted No Effect Concentration  
ppm parts per million  
PVC Polyvinylchloride  
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)  
REACH-IT List-No. 6/7/8/9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.  
RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)  
SVHC Substances of Very High Concern  
Tel. Telephone  
TOC 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**

© by Chemical Check GmbH Gefahrstoffberatung. The copying or changing of this document is forbidden except with consent of the Chemical Check GmbH Gefahrstoffberatung.