

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 08.11.2018

Version number 11

Revision: 08.11.2018

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Trade name: **Undercoating Bitumen, black Spray**

Article number: 90010

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

No further relevant information available.

Application of the substance / the mixture

Surface protection  
Bitumen coating

### 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH  
Lechstrasse 28  
D 90451 Nürnberg

Tel. +49(0)911-642960  
Fax. +49(0)911-644456  
e-mail info@akemi.de

Further information obtainable from:

Laboratory

### 1.4 Emergency telephone number:

Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH  
Tel. +49(0)911-64296-59  
Reachable during the following office hours:  
Monday – Thursday from 07:30 a.m. to 16:30 p.m.  
Friday from 07:30 a.m. to 13:30 p.m.  
+44 (171) 635 91 91  
National Poison Inform. Centre  
Medical Toxicology Unit  
Avalonley Road  
London SE14 5ER

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



GHS09 environment

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



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

Response: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
IF ON SKIN: Wash with plenty of water.

Storage: Store in a well-ventilated place. Keep cool.  
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

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· Hazard pictograms

GHS02 GHS07 GHS09

· Signal word

Danger

· Hazard-determining components of labelling:

Hydrocarbons, C9, aromatics  
Naphtha (petroleum), hydrotreated heavy butanone

· Hazard statements

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclene, < 5% n-hexane  
H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H319 Causes serious eye irritation.

H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

· Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

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.

P260 Do not breathe spray.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P403 Store in a well-ventilated place.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

Buildup of explosive mixtures possible without sufficient ventilation.

· **2.3 Other hazards**

The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.

· Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

\* **SECTION 3: Composition/information on ingredients**· **3.2 Chemical characterisation: Mixtures**· Description: Mixture of substances listed below with nonhazardous additions.· Dangerous components:

EC number: 918-668-5	Hydrocarbons, C9, aromatics	12.5-25%
Index number: 649-356-00-4	Flam. Liq. 3, H226	
Reg.nr.: 01-2119455851-35	Asp. Tox. 1, H304	
	Aquatic Chronic 2, H411	
	STOT SE 3, H335-H336	

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CAS: 8052-42-4 EINECS: 232-490-9 Reg.nr.: 01-2119480172-44	Asphalt substance with a Community workplace exposure limit	12.5-25%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 Reg.nr.: 01-2119486944-21	propane ⚠ Flam. Gas 1, H220 Press. Gas (Comp.), H280	12.5-25%
EC number: 919-857-5 Reg.nr.: 01-2119463258-33	Naphtha (petroleum), hydrotreated heavy ⚠ Flam. Liq. 3, H226 ⚠ Asp. Tox. 1, H304 ⚠ STOT SE 3, H336	12.5-25%
CAS: 78-93-3 EINECS: 201-159-0 Index number: 606-002-00-3 Reg.nr.: 01-2119457290-43	butanone ⚠ Flam. Liq. 2, H225 ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	<10%
EC number: 921-024-6 Reg.nr.: 01-2119475514-35	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclene, < 5% n-hexane ⚠ Flam. Liq. 2, H225 ⚠ Asp. Tox. 1, H304 ⚠ Aquatic Chronic 2, H411 ⚠ Skin Irrit. 2, H315; STOT SE 3, H336	1-5%
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0 Reg.nr.: 01-2119474691-32	butane ⚠ Flam. Gas 1, H220; Flam. Liq. 1, H224 Press. Gas (Comp.), H280	1-5%
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-01-8 Reg.nr.: 01-2119485395-27	isobutane (containing ≥ 0,1% butadiene (203-450-8)) ⚠ Flam. Gas 1, H220 Press. Gas (Comp.), H280	1-5%
CAS: 64-17-5 EINECS: 200-578-6 Index number: 603-002-00-5 Reg.nr.: 01-2119457610-43	ethanol ⚠ Flam. Liq. 2, H225 ⚠ Eye Irrit. 2, H319	<1%

· Additional information: For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

#### · 4.1 Description of first aid measures

- General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.  
Rinse with warm water.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Do not induce vomiting; call for medical help immediately.

#### · 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

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

No further relevant information available.

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**SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- **5.2 Special hazards arising from the substance or mixture**
  - In case of fire, the following can be released:
  - Carbon monoxide (CO)
  - Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters**
- Protective equipment: No special measures required.
- Additional information
  - Cool endangered receptacles with water spray.
  - Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**
- **6.2 Environmental precautions:**
  - Wear protective equipment. Keep unprotected persons away.
  - Do not allow product to reach sewage system or any water course.
  - Inform respective authorities in case of seepage into water course or sewage system.
  - Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
  - Ensure adequate ventilation.
  - Do not flush with water or aqueous cleansing agents
- **6.4 Reference to other sections**
  - See Section 7 for information on safe handling.
  - See Section 8 for information on personal protection equipment.
  - See Section 13 for disposal information.

**SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling**
  - Keep away from heat and direct sunlight.
  - Ensure good ventilation/exhaustion at the workplace.
  - Open and handle receptacle with care.
- Information about fire - and explosion protection:
  - Fumes can combine with air to form an explosive mixture.
  - Do not spray onto a naked flame or any incandescent material.
  - Keep ignition sources away - Do not smoke.
  - Protect against electrostatic charges.
  - Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.
- **7.2 Conditions for safe storage, including any incompatibilities**
- Storage:
- Requirements to be met by storerooms and receptacles:
  - Store in a cool location.
  - Observe official regulations on storing packagings with pressurised containers.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions:
  - Keep container tightly sealed.
  - Do not seal receptacle gas tight.

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Store in cool, dry conditions in well sealed receptacles.  
Protect from heat and direct sunlight.  
No further relevant information available.

· **7.3 Specific end use(s)**

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

· Additional information about design of technical facilities: No further data; see item 7.

· **8.1 Control parameters**

· Ingredients with limit values that require monitoring at the workplace:

**8052-42-4 Asphalt**

WEL Short-term value: 10 mg/m<sup>3</sup>  
Long-term value: 5 mg/m<sup>3</sup>

**78-93-3 butanone**

WEL Short-term value: 899 mg/m<sup>3</sup>, 300 ppm  
Long-term value: 600 mg/m<sup>3</sup>, 200 ppm  
Sk, BMGV

**106-97-8 butane**

WEL Short-term value: 1810 mg/m<sup>3</sup>, 750 ppm  
Long-term value: 1450 mg/m<sup>3</sup>, 600 ppm  
Carc (if more than 0.1% of buta-1.3-diene)

**64-17-5 ethanol**

WEL Long-term value: 1920 mg/m<sup>3</sup>, 1000 ppm

· **DNELs**

**Hydrocarbons, C9, aromatics**

Oral	DNEL (Langzeit-wiederholt)	11 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	25 mg/kg bw/day (ARB)
		11 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	100 mg/m <sup>3</sup> Air (ARB)
		32 mg/m <sup>3</sup> Air (BEV)

**Naphtha (petroleum), hydrotreated heavy**

Oral	DNEL (Langzeit-wiederholt)	125 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	208 mg/kg bw/day (ARB)
		125 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	871 mg/m <sup>3</sup> Air (ARB)
		185 mg/m <sup>3</sup> Air (BEV)

**Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclene, < 5% n-hexane**

Oral	DNEL (Langzeit-wiederholt)	699 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	773 mg/kg bw/day (ARB)
		699 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	2,035 mg/m <sup>3</sup> Air (ARB)
		608 mg/m <sup>3</sup> Air (BEV)

· Ingredients with biological limit values:

**78-93-3 butanone**

BMGV 70 µmol/L  
Medium: urine  
Sampling time: post shift  
Parameter: butan-2-one

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· Additional information:

The lists valid during the making were used as basis.

· **8.2 Exposure controls**· Personal protective equipment:· General protective and hygienic measures:

Do not eat, drink, smoke or sniff while working.  
 Use skin protection cream for skin protection.  
 Clean skin thoroughly immediately after handling the product.  
 Immediately remove all soiled and contaminated clothing  
 Wash hands before breaks and at the end of work.  
 Do not inhale gases / fumes / aerosols.

· Respiratory protection:

Filter AX

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· Protection of hands:

Preventive skin protection by use of skin-protecting agents is recommended.  
 After use of gloves apply skin-cleaning agents and skin cosmetics.

**Protective gloves**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The protection gloves to be used have to comply with the specifications of the directive 89/686/EC and the directive derived decree EN374, respectively, e.g. the above listed protection glove type. The mentioned permeation times' data were generated and verified with material samples of the recommended protection glove type in the scope of laboratory analyses of the company KCL GmbH in compliance with EN374.

This recommendation refers exclusively to the material safety data sheet referenced product delivered by Akemi and the indicated field of application. In case of product dilution or in case of mixture with different substances or chemicals, and in condition of EN374 deviation the producer of CE-approved protection gloves must be contacted for detailed information (e.g., KCL GmbH, Germany, 36124 Eichenzell, internet: <http://www.kcl.de>).

· Material of gloves

Butyl rubber, BR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove materialValue for the permeation: Level  $\leq$  1, 10 min

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· As protection from splashes gloves made of the following materials are suitable:

Butyl rubber, BR

Butoject (KCL, Art\_No. 897, 898)

· Eye protection:**Tightly sealed goggles**· Body protection:

Protective work clothing

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## SECTION 9: Physical and chemical properties

### · 9.1 Information on basic physical and chemical properties

#### · General Information

#### · Appearance:

Form:

Aerosol

Colour:

According to product specification

#### · Odour:

Specific type

#### · pH-value:

Not applicable

#### · Change in condition

Melting point/freezing point:

Undetermined.

Initial boiling point and boiling range: -44.5 °C

#### · Flash point:

-97 °C

#### · Ignition temperature:

470 °C

#### · Decomposition temperature:

200 °C

#### · Auto-ignition temperature:

Product is not selfigniting.

#### · Explosive properties:

Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

#### · Explosion limits:

Lower:

1.7 Vol %

Upper:

10.9 Vol %

#### · Vapour pressure at 20 °C:

8,300 hPa

#### · Density at 20 °C:

0.74 g/cm<sup>3</sup>

#### · Solubility in / Miscibility with water:

Not miscible or difficult to mix.

#### · Viscosity:

Dynamic:

Not determined.

Kinematic:

Not determined.

#### · Solvent content:

Organic solvents:

73.3 %

Solids content:

23.4 %

#### · 9.2 Other information

No further relevant information available.

## SECTION 10: Stability and reactivity

### · 10.1 Reactivity

No further relevant information available.

### · 10.2 Chemical stability

#### · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

### · 10.3 Possibility of hazardous reactions

No dangerous reactions known.

### · 10.4 Conditions to avoid

No further relevant information available.

### · 10.5 Incompatible materials:

No further relevant information available.

### · 10.6 Hazardous decomposition products:

No dangerous decomposition products known.

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**SECTION 11: Toxicological information****11.1 Information on toxicological effects**

· Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

**Hydrocarbons, C9, aromatics**

Oral	LD50	3,295 mg/kg (rat) (OECD 401)
Dermal	LD50	>3,160 mg/kg (rabbit) (OECD 402)
Inhalative	LC50/4 h	>6,193 mg/l (rat)

**Naphtha (petroleum), hydrotreated heavy**

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
	LD50	>5,000 mg/kg (rabbit)
Inhalative	LC50/4 h	>4,951 mg/l (rat)

**Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclene, < 5% n-hexane**

Oral	LD50	>5,840 mg/kg (rat)
Dermal	LD50	>3,160 mg/kg (rabbit) (IUCLID)
		>2,920 mg/kg (rat)
Inhalative	LC50/4 h	>25.2 mg/l (rat) (IUCLID)

- Primary irritant effect:
- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Causes serious eye irritation.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure May cause respiratory irritation. May cause drowsiness or dizziness.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information****12.1 Toxicity**

· Aquatic toxicity:

**Hydrocarbons, C9, aromatics**

EC50/96h	9.2 mg/l (Oncorhynchus mykiss)
LC50	1-10 mg/l (daphnia magna)
ErC50/72h	0.42 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
EL50/48h	3.2 mg/l (daphnia magna) (OECD 202)
EL50/72h	2.6-2.9 mg/l (Pseudokirchneriella subcapitata)
	2.9 mg/l (selenastrum capricornutum)
LL50/96h	9.2 mg/l (Oncorhynchus mykiss) (OECD 203)
NOELR/72h	1 mg/l (Pseudokirchneriella subcapitata)
EC50/48h	7.4 mg/l (daphnia magna)
EC50/72h	0.29 mg/l (Pseudokirchneriella subcapitata) (OECD 201)

**Naphtha (petroleum), hydrotreated heavy**

EL0/48h	1,000 mg/l (daphnia magna)
EL50/72h	>1,000 mg/l (Pseudokirchneriella subcapitata)

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LL50/96h	>1,000 mg/l (Oncorhynchus mykiss)
NOELR/72h	100 mg/l (Pseudokirchneriella subcapitata)
<b>Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclene, &lt; 5% n-hexane</b>	
EC50/48h	3 mg/l (daphnia magna)
EL50/48h	3 mg/l (daphnia magna)
EL50/72h	30-100 mg/l (Pseudokirchneriella subcapitata)
LL50/96h	11.4 mg/l (Oncorhynchus mykiss)
NOELR/72h	3 mg/l (Pseudokirchneriella subcapitata)
NOEC/21d	0.17 mg/l (daphnia magna)
LC50/96h	2.6 mg/l (piscis) (IUCLID)
LC50/72h	15.8 mg/l (Oncorhynchus mykiss)

• **12.2 Persistence and degradability**

No further relevant information available.

• **12.3 Bioaccumulative potential**

No further relevant information available.

• **12.4 Mobility in soil**

No further relevant information available.

• Ecotoxicological effects:

• Remark:

Toxic for fish

• Additional ecological information:

• General notes:

Do not allow product to reach ground water, water course or sewage system.  
Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

• **12.5 Results of PBT and vPvB assessment**

• PBT:

Not applicable.

• vPvB:

Not applicable.

• **12.6 Other adverse effects**

No further relevant information available.

**SECTION 13: Disposal considerations**

• **13.1 Waste treatment methods**

• Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

• European waste catalogue

08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 02 00	wastes from MFSU of other coatings (including ceramic materials)
08 02 99	wastes not otherwise specified
16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 05 00	gases in pressure containers and discarded chemicals
16 05 04*	gases in pressure containers (including halons) containing hazardous substances

• Uncleaned packaging:

• Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

**SECTION 14: Transport information**

• **14.1 UN-Number**

• ADR, IMDG, IATA

UN1950

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**14.2 UN proper shipping name**

· ADR  
· IMDG

1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS  
AEROSOLS (Hydrocarbons, C9, aromatics, Hydrocarbons, C9-  
C12, n-alkanes, cyclics, aromatics (2-25%)), MARINE  
POLLUTANT  
AEROSOLS, flammable

· IATA**14.3 Transport hazard class(es)**· ADR

· Class  
· Label

2 5F Gases.  
2.1

· IMDG

· Class  
· Label

2.1  
2.1

· IATA

· Class  
· Label

2.1  
2.1

**14.4 Packing group**· ADR, IMDG, IATA

Void

**14.5 Environmental hazards:**· Marine pollutant:

Product contains environmentally hazardous substances:  
Yes

· Special marking (ADR):

Symbol (fish and tree)  
Symbol (fish and tree)

**14.6 Special precautions for user**

· Danger code (Kemler):  
· EMS Number:  
· Stowage Code

Warning: Gases.

-

F-D,S-U

SW1 Protected from sources of heat.

SW22 For AEROSOLS with a maximum capacity of 1 litre:  
Category A. For AEROSOLS with a capacity above 1 litre:  
Category B. For WASTE AEROSOLS: Category C, Clear of living  
quarters.

· Segregation Code

SG69 For AEROSOLS with a maximum capacity of 1 litre:  
Segregation as for class 9. Stow "separated from" class 1 except  
for division 1.4. For AEROSOLS with a capacity above 1 litre:  
Segregation as for the appropriate subdivision of class 2. For  
WASTE AEROSOLS: Segregation as for the appropriate  
subdivision of class 2.

**14.7 Transport in bulk according to Annex II of  
Marpol and the IBC Code**

Not applicable.

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• **Transport/Additional information:**

• **ADR**

• Limited quantities (LQ)

1L

• Excepted quantities (EQ)

Code: E0

Not permitted as Excepted Quantity

• Transport category

2

• Tunnel restriction code

D

• **IMDG**

• Limited quantities (LQ)

1L

• Excepted quantities (EQ)

Code: E0

Not permitted as Excepted Quantity

• **UN "Model Regulation":**

UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS

## SECTION 15: Regulatory information

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

• Directive 2012/18/EU

• Named dangerous substances -  
ANNEX I

None of the ingredients is listed.

• Seveso category

P3a FLAMMABLE AEROSOLS

E2 Hazardous to the Aquatic Environment

• Qualifying quantity (tonnes) for the  
application of lower-tier  
requirements

150 t

• Qualifying quantity (tonnes) for the  
application of upper-tier  
requirements

500 t

• REGULATION (EC) No 1907/2006  
ANNEX XVII

Conditions of restriction: 3

• National regulations:

• Information about limitation of use:

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

• Waterhazard class:

Water hazard class 2 (Self-assessment): hazardous for water.

• VOC EU

553.5 g/l

• **15.2 Chemical safety  
assessment:**

A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

• **Relevant phrases**

H220 Extremely flammable gas.

H224 Extremely flammable liquid and vapour.

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

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.

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## Safety data sheet

### according to 1907/2006/EC, Article 31

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#### **Trade name: Undercoating Bitumen, black Spray**

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- Recommended restriction of use refer to Technical Data Sheet (TDS)
- Department issuing SDS: Laboratory
- Contact: Dieter Zimmermann
- Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
 ICAO: International Civil Aviation Organisation  
 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 DNEL: Derived No-Effect Level (REACH)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: very Persistent and very Bioaccumulative  
 Flam. Gas 1: Flammable gases – Category 1  
 Aerosol 1: Aerosols – Category 1  
 Press. Gas (Comp.): Gases under pressure – Compressed gas  
 Flam. Liq. 1: Flammable liquids – Category 1  
 Flam. Liq. 2: Flammable liquids – Category 2  
 Flam. Liq. 3: Flammable liquids – Category 3  
 Skin Irrit. 2: Skin corrosion/irritation – Category 2  
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
 Asp. Tox. 1: Aspiration hazard – Category 1  
 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2  
 REACH directive 1907/2006/EC
- Sources
- \* Data compared to the previous version altered. Adaptation in accordance with REACH directive 1907/2006/EC

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