

# SAFETY DATA SHEET Undershield Bitumen - Aerosol

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

#### 1.1. Product identifier

Product name Undershield Bitumen - Aerosol

Product number RF00786C

**UFI**: 32F8-91KD-3000-YPS2

**REACH registration notes**This is a MIXTURE; no registration information contained in this document. Holts are classed

as Downstream User.

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

Identified uses Car maintenance product. Paint.

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

Supplier Holt Lloyd Services

52 Rue des 40 Mines, 60000 - Allonne, France

Phone: +33 (0)3 64 99 00 32

info@holtsauto.com

Contact person Contact email address: info@holtsauto.com

Manufacturer Holt Lloyd International Ltd

Barton Dock Road

Stretford Manchester

M32 0YQ - England, UK +44 (0) 161 866 4800 FAX +44 (0) 161 866 4854 www.holtsauto.com

## 1.4. Emergency telephone number

**Emergency telephone** UK - 00 44 (0) 161 866 4800 Office hrs = 0900 - 1700 hrs

National emergency telephone +43 1 31304 5620; chemikalien@umweltbundesamt.at (Austria)

number

- +32022649636; info@poisoncentre.be (Belgium)
- +359 2 9154 409; poison\_centre@mail.orbitel.bg (Bulgaria)
- +38514686910; toksikologija@hzjz.hr (Croatia)
- +35722405611; cy-chemregistry@dli.mlsi.gov.cy (Cyprus)
- +420267082257; biocidy@mzcr.cz (Czech Republic)
- +45 72 54 40 00; mst@mst.dk (Denmark)
- +372 794 3500; clp@terviseamet.ee, info@terviseamet.ee (Estonia)
- +358 5052 000; kirjaamo@tukes.fi (Finland)
- + 33 3 83 85 21 92; bnpc@chru-nancy.fr (France)
- +49-30-18412-0; bfr@bfr.bund.de (Germany)
- +302106479250; +302106479450; devxp.gcsl@aade.gr, environment.gcsl@aade.gr (Greece)
- +36 (1) 476 1135; clp.ca@nnk.gov.hu (Hungary)
- +354 543 22 22; eitur@landspitali.is (Iceland)
- +353 (1) 809 2166 / +353 (1) 809 2566; chemicalsinfo@beaumont.ie (Ireland)
- +390649906140; inscweb@iss.it (Italy)
- +371 67032600; lvgmc@lvgmc.lv (Latvia)
- +370 70662008; aaa@aaa.am.lt (Lithuania)
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- +356 2395 2000; info@mccaa.org.mt (Malta)
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- +34 917689800; intcf.doc@justicia.es (Spain)
- +46104566750; giftinformation@gic.se (Sweden)
- +44 121 507 4123; allistervale@npis.org, sallybradberry@npis.org (UK)

#### SECTION 2: Hazards identification

# 2.1. Classification of the substance or mixture

## Classification (EC 1272/2008)

Physical hazards Aerosol 1 - H222, H229

**Health hazards** Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H336

**Environmental hazards** Aquatic Chronic 2 - H411

## 2.2. Label elements

#### Hazard pictograms







Signal word

Danger

Hazard statements H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated.

H315 Causes skin irritation.

H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements** P102 Keep out of reach of children.

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

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 vapour/ spray.

P271 Use only outdoors or in a well-ventilated area. P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

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

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

**UFI**: 32F8-91KD-3000-YPS2

Contains NAPHTHA (PETROLEUM), HYDROTREATED LIGHT; LOW BOILING POINT HYDROGEN,

**ACETONE** 

Supplementary precautionary

statements

P264 Wash contaminated skin thoroughly after handling.

P273 Avoid release to the environment.

 ${\hbox{P280 Wear protective gloves/ protective clothing/ eye protection.}}$ 

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P332+P313 If skin irritation occurs: Get medical advice/ attention. P337+P313 If eye irritation persists: Get medical advice/ attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

#### 2.3. Other hazards

## SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

# NAPHTHA (PETROLEUM), HYDROTREATED LIGHT; LOW

30-60%

**BOILING POINT HYDROGEN** 

CAS number: 64742-49-0 EC number: 265-151-9 REACH registration number: 01-

2119475133-43-XXXX

#### Classification

Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 STOT SE 3 - H336 Asp. Tox. 1 - H304

Aquatic Chronic 2 - H411

# **Undershield Bitumen - Aerosol**

 PROPANE
 10-30%

 CAS number: 74-98-6
 EC number: 200-827-9
 REACH registration number: 01-2119486944-21-XXXX

Classification

Flam. Gas 1A - H220

ACETONE 10-30%

CAS number: 67-64-1 EC number: 200-662-2 REACH registration number: 01-

2119471330-49-XXXX

Classification

Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336

ISOBUTANE 5-10%

CAS number: 75-28-5 EC number: 200-857-2 REACH registration number: 01-

2119485395-27-XXXX

Classification

Flam. Gas 1A - H220

Press. Gas

BUTANE 5-10%

CAS number: 106-97-8 EC number: 203-448-7 REACH registration number: 01-

2119474691-32-XXXX

Classification

Flam. Gas 1A - H220

Press. Gas

Solvent naphtha(petroleum), medium aliph.

Classification

Flam. Liq. 3 - H226 Asp. Tox. 1 - H304

Naphtha (petroleum), Light Aromatic 1-5%

CAS number: 64742-95-6 EC number: 918-668-5 REACH registration number: 01-

2119455851-35-XXXX

Classification

Asp. Tox. 1 - H304

#### Undershield Bitumen - Aerosol

METHANOL <1%

CAS number: 67-56-1 EC number: 200-659-6 REACH registration number: 01-

2119392409-28-XXXX

Classification

Flam. Liq. 2 - H225 Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 STOT SE 1 - H370

The full text for all hazard statements is displayed in Section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

**Inhalation** Move affected person to fresh air at once. Keep affected person warm and at rest. Get

medical attention immediately.

**Ingestion** Move affected person to fresh air and keep warm and at rest in a position comfortable for

breathing. Rinse mouth thoroughly with water. Do not induce vomiting. Never give anything by

mouth to an unconscious person.

Skin contact Remove affected person from source of contamination. Get medical attention if any discomfort

continues.

**Eye contact** Remove affected person from source of contamination. Remove any contact lenses and open

eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.

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

**Inhalation** May cause drowsiness or dizziness.

**Ingestion** No harmful effects expected from quantities likely to be ingested by accident.

Skin contact Causes skin irritation.

Eye contact Causes eye irritation.

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

#### SECTION 5: Firefighting measures

## 5.1. Extinguishing media

Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

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

Specific hazards Containers can burst violently or explode when heated, due to excessive pressure build-up.

5.3. Advice for firefighters

Protective actions during

firefighting

Move containers from fire area if it can be done without risk.

## SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet.

#### 6.2. Environmental precautions

**Environmental precautions** Avoid release to the environment.

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

Methods for cleaning up Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots,

clothing or apron, as appropriate. Eliminate all sources of ignition. No smoking, sparks, flames

or other sources of ignition near spillage. Provide adequate ventilation.

#### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8. For waste disposal, see Section 13.

#### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Usage precautions Keep away from heat, sparks and open flame. Provide adequate ventilation. Avoid inhalation

of vapours. Use approved respirator if air contamination is above an acceptable level.

## 7.2. Conditions for safe storage, including any incompatibilities

**Storage class** Flammable compressed gas storage.

7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure controls/Personal protection

## 8.1. Control parameters

## Occupational exposure limits

#### **ACETONE**

Long-term exposure limit (8-hour TWA): WEL 500 ppm 1210 mg/m<sup>3</sup> Short-term exposure limit (15-minute): WEL 1500 ppm 3620 mg/m<sup>3</sup>

#### **ISOBUTANE**

Long-term exposure limit (8-hour TWA): OES 800 ppm Short-term exposure limit (15-minute): OES 800 ppm

#### **BUTANE**

Long-term exposure limit (8-hour TWA): WEL 600 ppm 1450 mg/m<sup>3</sup> Short-term exposure limit (15-minute): WEL 750 ppm 1810 mg/m<sup>3</sup>

#### **METHANOL**

Long-term exposure limit (8-hour TWA): WEL 200 ppm 266 mg/m³ Short-term exposure limit (15-minute): WEL 250 ppm 333 mg/m³

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through the skin.

### NAPHTHA (PETROLEUM), HYDROTREATED LIGHT; LOW BOILING POINT HYDROGEN (CAS: 64742-49-0)

**DNEL** Workers - Inhalation; Short term systemic effects: 1286.4 mg/m³

Workers - Inhalation; Long term local effects: 837.5 mg/m³

General population - Inhalation; Short term systemic effects: 1152 mg/m³ General population - Inhalation; Long term local effects: 178.6 mg/m³ General population - Inhalation; Short term local effects: 640 mg/m³

**ACETONE (CAS: 67-64-1)** 

**DNEL** Consumer - Oral; Long term systemic effects: 62 mg/kg/day

Workers - Dermal; Long term systemic effects: 186 mg/kg/day Consumer - Dermal; Long term systemic effects: 62 mg/kg/day Workers - Inhalation; Short term local effects: 2420 mg/m³ Workers - Inhalation; Long term systemic effects: 1210 mg/m³ Consumer - Inhalation; Long term systemic effects: 200 mg/m³

PNEC Fresh water; 10.6 mg/l

marine water; 1.06 mg/l Intermittent release; 21 mg/l Sediment (Freshwater); 30.4 mg/kg Sediment (Marinewater); 3.04 mg/kg

Soil; 29.5 mg/kg STP; 100 mg/l

## Naphtha (petroleum), Light Aromatic (CAS: 64742-95-6)

**DNEL** Industry - Dermal; : 25 mg/kg bw/day

Industry - Inhalation; : 150 mg/m³
Consumer - Dermal; : 11 mg/kg bw/day
Consumer - Inhalation; : 32 mg/m³
Consumer - Oral; : 11 mg/kg bw/day

#### **METHANOL (CAS: 67-56-1)**

**DNEL** Workers - Inhalation; Long term systemic effects: 260 mg/m<sup>3</sup>

Workers - Inhalation; Short term systemic effects: 260 mg/m³ Workers - Inhalation; Long term local effects: 260 mg/m³ Workers - Inhalation; Short term local effects: 260 mg/m³

Workers - Dermal; Long term systemic effects: 40 mg/kg bw/day General population - Inhalation; Long term systemic effects: 50 mg/m³ General population - Inhalation; Short term systemic effects: 50 mg/m³ General population - Inhalation; Long term local effects: 50 mg/m³ General population - Inhalation; Short term local effects: 50 mg/m³

General population - Dermal; Long term systemic effects: 8 mg/kg bw/day General population - Dermal; Short term systemic effects: 8 mg/kg bw/day General population - Oral; Long term systemic effects: 8 mg/kg bw/day General population - Oral; Short term systemic effects: 8 mg/kg bw/day

PNEC Fresh water; 20.8 mg/l

marine water; 2.08 mg/l

STP; 100 mg/l

Intermittent release; 1540 mg/l

Sediment (Freshwater); 77 mg/kg sediment dry weight Sediment (Marinewater); 7.7 mg/kg sediment dry weight

Soil; 100 mg/kg soil dry weight

## 8.2. Exposure controls

#### Protective equipment





Eye/face protection

The following protection should be worn: Chemical splash goggles.

#### **Undershield Bitumen - Aerosol**

Hand protection Chemical-resistant, impervious gloves complying with an approved standard should be worn if

a risk assessment indicates skin contact is possible. It is recommended that gloves are made

of the following material: Rubber (natural, latex).

Other skin and body

protection

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or

prolonged vapour contact.

Hygiene measures Do not eat, drink or smoke when using this product. Wash at the end of each work shift and

before eating, smoking and using the toilet. Promptly remove any clothing that becomes

contaminated. Use appropriate skin cream to prevent drying of skin.

**Respiratory protection** Respiratory protection may be required if excessive airborne contamination occurs.

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Not applicable.

Appearance Aerosol.

Colour Black.

**Odour** Characteristic.

Upper/lower flammability or

explosive limits

Flash point

Lower flammable/explosive limit: 0.6% Upper flammable/explosive limit: 10.9%

Relative density ~0.702 @ 20°C

Auto-ignition temperature 200°C

9.2. Other information

Volatility 80.0%

Volatile organic compound This product contains a maximum VOC content of 561.4 g/litre.

#### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

**Reactivity** There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

## 10.3. Possibility of hazardous reactions

Possibility of hazardous

No potentially hazardous reactions known.

reactions

products

10.4. Conditions to avoid

**Conditions to avoid** Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents. Strong mineral acids.

#### 10.6. Hazardous decomposition products

Hazardous decomposition

Thermal decomposition or combustion products may include the following substances: Oxides

of carbon. Acrid smoke or fumes.

#### SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

#### Undershield Bitumen - Aerosol

**Toxicological effects** Information given is based on data of the components and of similar products.

Acute toxicity - oral

Notes (oral LD<sub>50</sub>) Based on available data the classification criteria are not met.

**ATE oral (mg/kg)** 12,500.0

Acute toxicity - dermal

Notes (dermal LD50) Based on available data the classification criteria are not met.

**ATE dermal (mg/kg)** 37,500.0

Acute toxicity - inhalation

Notes (inhalation LC50) Based on available data the classification criteria are not met.

ATE inhalation (gases ppm) 87,500.0

ATE inhalation (vapours mg/l) 375.0

ATE inhalation (dusts/mists

mg/l)

62.5

Skin corrosion/irritation

**Skin corrosion/irritation** Causes skin irritation.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye irritation.

Respiratory sensitisation

**Respiratory sensitisation** Based on available data the classification criteria are not met.

Skin sensitisation

**Skin sensitisation** Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro

Based on available data the classification criteria are not met.

Genotoxicity - in vivo

Based on available data the classification criteria are not met.

Carcinogenicity

**Carcinogenicity** Based on available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Reproductive toxicity -

development

Does not contain any substances known to be toxic to reproduction.

Specific target organ toxicity - single exposure

STOT - single exposure May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Not relevant.

**Inhalation** Extensive use of the product in areas with inadequate ventilation may result in the

accumulation of hazardous vapour concentrations. Vapours may cause headache, fatigue,

dizziness and nausea.

## **Undershield Bitumen - Aerosol**

**Ingestion** No harmful effects expected from quantities likely to be ingested by accident.

Skin contact Causes skin irritation.

Eye contact Causes eye irritation.

Route of exposure Inhalation Skin and/or eye contact

Toxicological information on ingredients.

**PROPANE** 

Acute toxicity - oral

Acute toxicity oral (LD₅₀

mg/kg)
Species

Rat

5,000.0

**ATE oral (mg/kg)** 5,000.0

**ACETONE** 

Acute toxicity - oral

Acute toxicity oral (LD50

mg/kg)

**Species** 

Rat

5,800.0

**ATE oral (mg/kg)** 5,800.0

Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 7,400.0

mg/kg)

**Species** 

Species Rabbit

Acute toxicity - inhalation

Acute toxicity inhalation

(LC<sub>50</sub> vapours mg/l)

76.0

Rat

Skin corrosion/irritation

**Skin corrosion/irritation** Not irritating.

Serious eye damage/irritation

Serious eye Causes serious eye irritation.

damage/irritation

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

**Skin sensitisation** Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro

Negative.

Genotoxicity - in vivo

Negative.

## **Undershield Bitumen - Aerosol**

Carcinogenicity

**Carcinogenicity** Based on available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity -

fertility

No evidence of reproductive toxicity in animal studies. REACH dossier information.

Reproductive toxicity -

development

No evidence of reproductive toxicity in animal studies.

Specific target organ toxicity - single exposure

STOT - single exposure Central and/or peripheral nervous system damage. Narcotic effects

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Not relevant.

**ISOBUTANE** 

Acute toxicity - oral

Acute toxicity oral (LD50

mg/kg)

5,000.0

**Species** Rat

**ATE oral (mg/kg)** 5,000.0

**BUTANE** 

Acute toxicity - oral

Acute toxicity oral (LD₅o

mg/kg)

5,000.0

Species Rat

Naphtha (petroleum), Light Aromatic

Acute toxicity - oral

Acute toxicity oral (LD₅o

3,492.0

mg/kg)

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 3,160.0

mg/kg)

Species Rabbit

Acute toxicity - inhalation

Acute toxicity inhalation

6,193.0

(LC<sub>50</sub> vapours mg/l)

**Species** Rat

Skin corrosion/irritation

## **Undershield Bitumen - Aerosol**

**Skin corrosion/irritation** Causes mild skin irritation.

Serious eye damage/irritation

Serious eye Not irritating

damage/irritation

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation Not sensitising.

Germ cell mutagenicity

**Genotoxicity - in vitro**This substance has no evidence of mutagenic properties.

Carcinogenicity

Carcinogenicity No information available.

Reproductive toxicity

Reproductive toxicity -

Based on available data the classification criteria are not met.

fertility

Specific target organ toxicity - single exposure

STOT - single exposure May cause drowsiness or dizziness. May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

**Aspiration hazard** May be fatal if swallowed and enters airways.

**METHANOL** 

Acute toxicity - oral

Acute toxicity oral (LD50

300.0

mg/kg)

Species Human

ATE oral (mg/kg) 100.0

Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 300.0

mg/kg)

Species Human

ATE dermal (mg/kg) 300.0

Acute toxicity - inhalation

Acute toxicity inhalation

700.0

3.0

(LC<sub>50</sub> gases ppmV)

Acute toxicity inhalation

(LC<sub>50</sub> vapours mg/l)

Acute toxicity inhalation

(LC<sub>50</sub> dust/mist mg/l)

0.5

ATE inhalation (gases

ppm)

700.0

ATE inhalation (vapours

mg/l)

3.0

ATE inhalation (dusts/mists mg/l) 0.5

Skin corrosion/irritation

Skin corrosion/irritation Not irritating.

Serious eye damage/irritation

Serious eye

Based on available data the classification criteria are not met.

damage/irritation

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Negative.

Genotoxicity - in vivo Negative.

Carcinogenicity

NOAEL 466 mg/kg bw/day, Oral, Rat Carcinogenicity

Reproductive toxicity

Reproductive toxicity -

No information available.

fertility

Specific target organ toxicity - single exposure

Central and/or peripheral nervous system damage. Eyes STOT - single exposure

Specific target organ toxicity - repeated exposure

STOT - repeated exposure LOAEL 2340 mg/kg, Oral, Monkey NOAEL 1.06 mg/l, Inhalation, Rat

Central nervous system Eyes **Target organs** 

Aspiration hazard

Not relevant. Aspiration hazard

Inhalation Toxic by inhalation. Drowsiness. Dizziness.

Ingestion Toxic if swallowed. Unconsciousness, possibly death.

Skin contact Toxic in contact with skin.

Eye contact May cause temporary eye irritation.

**Target organs** Kidneys Liver Heart and cardiovascular system

#### Undershield Bitumen - Aerosol

Medical considerations Liver and/or kidney damage.

SECTION 12: Ecological information

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

Ecological information on ingredients.

Naphtha (petroleum), Light Aromatic

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

12.1. Toxicity

Ecological information on ingredients.

**ACETONE** 

Acute aquatic toxicity

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 5540 mg/l, Oncorhynchus mykiss (Rainbow trout)

LC<sub>50</sub>, 96 hours: 11000 mg/l, Marinewater fish

LC<sub>50</sub>, 96 hours: 8300 mg/l, Lepomis macrochirus (Bluegill)

Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 48 hours: 8800 mg/l, Freshwater invertebrates

Acute toxicity - aquatic

plants

EC<sub>50</sub>, 96 hours: 7200 mg/l, Algae

NOEC, 96 hours: 430 mg/l, Algae

Acute toxicity -

microorganisms

EC10, NOEC, 30 minutes: 1000 mg/l, Activated sludge

Acute toxicity - terrestrial

LC<sub>50</sub>, 48 hours: 100-1000 µg/cm2, Eisenia Fetida (Earthworm)

Chronic aquatic toxicity

Chronic toxicity - aquatic

invertebrates

NOEC, 28 days: 2212 mg/l, Daphnia magna

Naphtha (petroleum), Light Aromatic

Acute aquatic toxicity

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 9.2 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 48 hours: 3.2 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC<sub>50</sub>, 72 hours: 2.9 mg/l, Algae

NOEC, 71 hours: 1 mg/l, Pseudokirchneriella subcapitata

Chronic aquatic toxicity

Chronic toxicity - fish early NOEC, 28 days: 1.23 mg/l, Oncorhynchus mykiss (Rainbow trout)

life stage

Chronic toxicity - aquatic

NOEC, 21 days: 2.14 mg/l, Daphnia magna

invertebrates

**METHANOL** 

Acute aquatic toxicity

## **Undershield Bitumen - Aerosol**

Acute toxicity - fish LC₅o, 96 hours: 15400 mg/l, Lepomis macrochirus (Bluegill)

NOEC, 200 hours: 15800 mg/l, Oryzias latipes (Red killifish)

Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 48 hours: > 10000 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC₅o, 96 hours: 22000 mg/l, Selenastrum capricornutum

Acute toxicity -  $IC_{50}$ , 3 hours: > 1000 mg/l, microorganisms  $IC_{50}$ , 15 hours: 20000 mg/l,

12.2. Persistence and degradability

Ecological information on ingredients.

**ACETONE** 

Persistence and

degradability

90 +/- 2.2%; 28 days Rapidly degradable

**Stability (hydrolysis)** The substance is readily biodegradable.

Naphtha (petroleum), Light Aromatic

Biodegradation Rapidly degradable

Water - Degradation 78%: 28 days

**METHANOL** 

Persistence and

degradability

Rapidly degradable 71.5% 5 days 95% 20 days

12.3. Bioaccumulative potential

Ecological information on ingredients.

**ACETONE** 

Bioaccumulative potential Bioaccumulation is unlikely.

Naphtha (petroleum), Light Aromatic

Partition coefficient log Pow: < 4.5

**METHANOL** 

Bioaccumulative potential The product is not bioaccumulating.

Partition coefficient log Pow: - 0.82 log Pow: - 0.66

12.4. Mobility in soil

Mobility The product contains substances which are insoluble in water and which may spread on water

surfaces.

12.5. Results of PBT and vPvB assessment

Ecological information on ingredients.

**ACETONE** 

Results of PBT and vPvB assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

## Naphtha (petroleum), Light Aromatic

Results of PBT and vPvB assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

## **METHANOL**

Results of PBT and vPvB assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

## 12.6. Other adverse effects

Other adverse effects None known.

## SECTION 13: Disposal considerations

# 13.1. Waste treatment methods

**Disposal methods**Dispose of waste to licensed waste disposal site in accordance with the requirements of the

local Waste Disposal Authority. Empty containers must not be punctured or incinerated

because of the risk of an explosion.

Waste class WGK : 2 (Germany)

## **SECTION 14: Transport information**

**General** As supplied, this product is consigned under the Limited Quantities provisions.

14.1. UN number

**UN No. (ADR/RID)** 1950

**UN No. (IMDG)** 1950

**UN No. (ICAO)** 1950

**UN No. (ADN)** 1950

# 14.2. UN proper shipping name

Proper shipping name

**AEROSOLS** 

(ADR/RID)

Proper shipping name (IMDG) AEROSOLS (CONTAINS NAPHTHA (PETROLEUM), HYDROTREATED LIGHT; LOW

**BOILING POINT HYDROGEN)** 

Proper shipping name (ICAO) AEROSOLS

Proper shipping name (ADN) AEROSOLS

## 14.3. Transport hazard class(es)

ADR/RID class 2.1

ADR/RID classification code 5F

ADR/RID label 2.1

IMDG class 2.1

ICAO class/division 2.1

ADN class 2.1

## Transport labels



## 14.4. Packing group

ADN packing group

ADR/RID packing group None

IMDG packing group None

ICAO packing group None

. . . .

## 14.5. Environmental hazards

## Environmentally hazardous substance/marine pollutant

None



## 14.6. Special precautions for user

EmS F-D, S-U

ADR transport category 2

Tunnel restriction code (D)

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

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

## SECTION 15: Regulatory information

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

National regulations The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009

No. 716).

**EU legislation** Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18

December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of

Chemicals (REACH) (as amended).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as

amended)

Commission Regulation (EU) No 453/2010 of 20 May 2010. Commission Regulation (EU) No 2015/830 of 28 May 2015.

#### 15.2. Chemical safety assessment

## SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by

Road.

ATE: Acute Toxicity Estimate.
BCF: Bioconcentration Factor.
BOD: Biochemical Oxygen Demand.
CAS: Chemical Abstracts Service.
DNEL: Derived No Effect Level.

EC₅: 50% of maximal Effective Concentration.

GHS: Globally Harmonized System.

IARC: International Agency for Research on Cancer.

IATA: International Air Transport Association.

IBC: International Code for the Construction and Equipment of Ships carrying Dangerous

Chemicals in Bulk (International Bulk Chemical Code).

ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.

IMDG: International Maritime Dangerous Goods.

Kow: Octanol-water partition coefficient.

LC₅o: Lethal Concentration to 50 % of a test population. LOAEC: Lowest Observed Adverse Effect Concentration.

MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as

modified by the Protocol of 1978.

NOAEC: No Observed Adverse Effect Concentration.

NOAEL: No Observed Adverse Effect Level.

PBT: Persistent, Bioaccumulative and Toxic substance.

PNEC: Predicted No Effect Concentration.

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation

(EC) No 1907/2006.

RID: European Agreement concerning the International Carriage of Dangerous Goods by

Rail.

SVHC: Substances of Very High Concern.

UN: United Nations.

UVCB - Unknown or variable composition, complex reaction products or Biological materials.

vPvB: Very Persistent and Very Bioaccumulative.

Classification procedures according to Regulation (EC) 1272/2008

Aerosol 1 - H222, H229: Calculation method. Skin Irrit. 2 - H315: Calculation method. Eye Irrit. 2 - H319: Calculation method. STOT SE 3 - H336: Calculation method. Aquatic Chronic 2 -

H411: Calculation method.

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Hazard statements in full H220 Ext

H220 Extremely flammable gas.

H222 Extremely flammable aerosol.

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H229 Pressurised container: may burst if heated.

H301 Toxic if swallowed.

H304 May be fatal if swallowed and enters airways.

H311 Toxic in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

H370 Causes damage to organs (Central nervous system, Optic nerve (nervus opticus)) if swallowed or in contact with skin.

Swallowed of in contact with Skin.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.