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# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 11.10.2016

Version number 82

Revision: 11.10.2016

SECTION 1: Identification of the substance/mixture and of the company/undertaking
· 1.1 Product identifier
· Trade name: ZWALUW PENETRATING OIL 400ML
<ul> <li>Article number: 12009725</li> <li>1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.</li> <li>Application of the substance / the mixture Penetrating oil</li> </ul>
<ul> <li>1.3 Details of the supplier of the safety data sheet</li> <li>Manufacturer/Supplier: DEN BRAVEN</li> <li>Denariusstraat 11</li> <li>4903 RC Oosterhout</li> <li>The Netherlands</li> <li>Tel: + 31 (0)162-491000</li> <li>Fax: +31 (0)162-421217</li> <li>E-mail: info@denbraven.com</li> <li>Internet: www.denbraven.com</li> <li>Further information obtainable from:</li> <li>Product safety department.</li> <li>info@denbraven.com</li> <li>1.4 Emergency telephone number:</li> <li>info@denbraven.com</li> <li>Tel: +31 (0)162-491000</li> </ul>
SECTION 2: Hazards identification
<ul> <li>2.1 Classification of the substance or mixture</li> <li>Classification according to Regulation (EC) No 1272/2008</li> <li>GHS02 flame</li> <li>Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.</li> </ul>
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
<ul> <li>2.2 Label elements</li> <li>Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.</li> <li>Hazard pictograms</li> <li>GHS02</li> </ul>
· Signal word Danger
<ul> <li>Hazard-determining components of labelling: Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cycloalkanes, &lt;2% aromatics Distillates (petroleum), hydrotreated light naphthenic</li> <li>Hazard statements H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.</li> <li>Precautionary statements 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.</li> </ul>
(Contd. on page 2) GB

Printing date 11.10.2016

Version number 82

Revision: 11.10.2016

(Contd. of page 1)

#### **Trade name: ZWALUW PENETRATING OIL 400ML**

- P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C. Dispose of contents/container to hazardous or special waste collection point. P501

### · Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

Buildup of explosive mixtures possible without sufficient ventilation.

## · 2.3 Other hazards

- · 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.

<ul> <li>Dangerous components:</li> </ul>		
EC number: 918-481-9	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cycloalkanes,	25-<50%
Reg.nr.: 01-2119457273-39-xxxx	<2% aromatics	
	🚸 Asp. Tox. 1, H304	
CAS: 75-28-5	isobutane	20-<25%
EINECS: 200-857-2	🚯 Flam. Gas 1, H220; Press. Gas C, H280	
Reg.nr.: 01-2119485395-27-xxxx		
CAS: 64742-53-6	Distillates (petroleum), hydrotreated light naphthenic	10-<20%
EINECS: 265-156-6	🚯 Asp. Tox. 1, H304	
Reg.nr.: 01-2119480375-34-xxxx		
CAS: 74-98-6	propane	10-<20%
EINECS: 200-827-9	Flam. Gas 1, H220; Press. Gas C, H280	
Reg.nr.: 01-2119486944-21-xxxx		
CAS: 106-97-8	butane	2.5-<5%
EINECS: 203-448-7	🚯 Flam. Gas 1, H220; Press. Gas C, H280	
Reg.nr.: 01-2119474691-32-xxxx		
CAS: 111-76-2	2-butoxyethanol	1.0-<2.5%
EINECS: 203-905-0	Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4,	
	H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319	
· Regulation (EC) No 648/2004 on	a detergents / Labelling for contents	
aliphatic hydrocarbons		≥ 30%
aromatic hydrocarbons		< 5%

• 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

- · After inhalation:
- Supply fresh air; consult doctor in case of complaints.
- Take affected persons into fresh air and keep quiet.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- Immediately remove any clothing soiled by the product.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, 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.

(Contd. on page 3)

Printing date 11.10.2016

Version number 82

Revision: 11.10.2016

(Contd. of page 2)

#### Trade name: ZWALUW PENETRATING OIL 400ML

#### • **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

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

#### · 5.1 Extinguishing media

- $\cdot$  Suitable extinguishing agents:
- Foam

Fire-extinguishing powder

- Carbon dioxide
- $\cdot$  For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture Can form explosive gas-air mixtures.
- Formation of toxic gases is possible during heating or in case of fire.
- · 5.3 Advice for firefighters
- Protective equipment: Wear self-contained respiratory protective device.
- 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 Particular danger of slipping on leaked/spilled product. Mount respiratory protective device. Keep away from ignition sources. Ensure adequate ventilation
  6.2 Environmental precautions: 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 Mathada and matarial for containment and emergency procedures.
- $\cdot$  6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

• 6.4 Reference to other sections See Section 13 for disposal information.

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

#### · 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Avoid contact with skin and eyes.

· Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

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:

Observe official regulations on storing packagings with pressurised containers.

- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Protect from heat and direct sunlight.
- · 7.3 Specific end use(s) No further relevant information available.

(Contd. on page 4)

Printing date 11.10.2016

Version number 82

Revision: 11.10.2016

#### Trade name: ZWALUW PENETRATING OIL 400ML

(Contd. of page 3)

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

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

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

CAS: 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)

## CAS: 111-76-2 2-butoxyethanol

WEL Short-term value: 246 mg/m<sup>3</sup>, 50 ppm Long-term value: 123 mg/m<sup>3</sup>, 25 ppm Sk, BMGV

#### · Ingredients with biological limit values:

CAS: 111-76-2 2-butoxyethanol

BMGV 240 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: butoxyacetic acid

• Additional information: The lists valid during the making were used as basis.

· 8.2 Exposure controls

· Personal protective equipment:

· General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

- Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation.
- Recommended filter device for short term use: Filter AX
- · Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. • Material of gloves

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.

Nitrile rubber, NBR

(EN 374)

Recommended thickness of the material:  $\geq 0.45$  mm

· Penetration time of glove material

 $\geq$ 240 min

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

• Eye protection:



Tightly sealed goggles

(EN 166) • **Body protection:** 

Protective work clothing

(Contd. on page 5)

Printing date 11.10.2016

Version number 82

Revision: 11.10.2016

(Contd. of page 4)

#### Trade name: ZWALUW PENETRATING OIL 400ML

(EN 13034-6)

d chemical properties
cal and chemical properties
Aerosol
Grey
Petroleum-like
Not determined.
: Undetermined. Not applicable, as aerosol.
Not applicable, as aerosol.
>200 °C
Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Not determined.
Not determined.
0.69291 g/cm <sup>3</sup>
Not miscible or difficult to mix.
Not determined.
Not determined.
85.5 %
592.1 g/l

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

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

• 9.2 Other information

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

No further relevant information available.

• 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:

Aldehyde

Carbon monoxide and carbon dioxide

# **SECTION 11: Toxicological information**

## · 11.1 Information on toxicological effects

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

(Contd. on page 6)

GB

Printing date 11.10.2016

Version number 82

Revision: 11.10.2016

#### Trade name: ZWALUW PENETRATING OIL 400ML

		(Contd. of page
		evant for classification:
ATE (Acu	te Toxicity	y Estimates)
Oral	LD50	75999 mg/kg (rat)
Dermal	LD50	20540 mg/kg (rab)
Inhalative	LC50/4 h	125 mg/l
Hydrocar	bons, C10	-C13, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics
Oral	LD50	>2000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)
CAS: 75-2	8-5 isobut	ane
Inhalative	LC50/4 h	>50 mg/l (rat)
CAS: 74-9	8-6 propa	ne
Inhalative	LC50/4 h	20 mg/l (rat)
CAS: 106	•97-8 buta	ne
Inhalative	LC50/4 h	658 mg/l (rat)
CAS: 111-	-76-2 2-bu	toxyethanol
Oral	LD50	1480 mg/kg (rat)
Dermal	LD50	400 mg/kg (rab)
Inhalative	LC50/4 h	11 mg/l (ATE)
• Serious ey • Respirato • CMR effe • Germ cell • Carcinoge	osion/irrita e damage/ ry or skin cts (carcin mutagenic enicity Bas	ect: ation Based on available data, the classification criteria are not met. <i>'irritation</i> Based on available data, the classification criteria are not met. sensitisation Based on available data, the classification criteria are not met. mogenity, mutagenicity and toxicity for reproduction) city Based on available data, the classification criteria are not met. ed on available data, the classification criteria are not met. ty Based on available data, the classification criteria are not met. ty Based on available data, the classification criteria are not met.

• **STOT-single exposure** Based on available data, the classification criteria are not met.

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

· Aspiration hazard

May be fatal if swallowed and enters airways.

## **SECTION 12: Ecological information**

#### · 12.1 Toxicity

### · Aquatic toxicity:

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics

EC50/48 h >1000 mg/l (daphnia)

• 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.
- · Additional ecological information:

· General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

• 12.6 Other adverse effects No further relevant information available.

(Contd. on page 7)

GB

Printing date 11.10.2016

Version number 82

Revision: 11.10.2016

## Trade name: ZWALUW PENETRATING OIL 400ML

(Contd. of page 6)

# **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

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

15 01 04 metallic packaging

#### · Uncleaned packaging:

×

• Recommendation: Disposal must be made according to official regulations.

ADR/RID/ADN Class 2 5F Gases. Label 2.1 IMDG, IATA Class 2.1 IMDG, IATA Class 2.1 IA4 Packing group ADR,RID,ADN, IMDG, IATA Void 14.5 Environmental hazards: Marine pollutant: No 14.6 Special precautions for user Warning: Gases. Danger code (Kemler): - EMS Number: F-D,S-U	· 14.1 UN-Number · ADR,RID,ADN, IMDG, IATA	UN1950
Label       2.1         IMDG, IATA       2.1         · IMDG, IATA       2.1         · Class       2.1         · Label       2.1         · Label       2.1         · 14.4 Packing group       2.1         · ADR,RID,ADN, IMDG, IATA       Void         · 14.5 Environmental hazards:       No         · Marine pollutant:       No         · 14.6 Special precautions for user       Warning: Gases.         · Danger code (Kemler):       -         · EMS Number:       F-D,S-U	ADR/RID/ADN IMDG	AEROSOLS
Class 2 5F Gases. Label 2.1 IMDG, IATA Class 2.1 IMDG, IATA Class 2.1 Label 2.1 14.4 Packing group ADR,RID,ADN, IMDG, IATA Void 14.5 Environmental hazards: Marine pollutant: No 14.6 Special precautions for user Warning: Gases. Danger code (Kemler): - EMS Number: F-D,S-U	· 14.3 Transport hazard class(es)	
· Label       2.1         · IMDG, IATA       2.1         · Class       2.1         · Label       2.1         · Label       2.1         · Label       2.1         · 14.4 Packing group       2.1         · ADR,RID,ADN, IMDG, IATA       Void         · 14.5 Environmental hazards:       No         · Marine pollutant:       No         · 14.6 Special precautions for user       Warning: Gases.         · Danger code (Kemler):       -         · EMS Number:       F-D,S-U	· ADR/RID/ADN	
· Label       2.1         · IMDG, IATA       2.1         · Class       2.1         · Label       2.1         · Label       2.1         · Label       2.1         · 14.4 Packing group       2.1         · 14.4 Packing group       Void         · 14.5 Environmental hazards:       No         · Marine pollutant:       No         · 14.6 Special precautions for user       Warning: Gases.         · Danger code (Kemler):       -         · EMS Number:       F-D,S-U		
<ul> <li>IMDG, IATA</li> <li>Class</li> <li>Class</li> <li>Label</li> <li>2.1</li> <li>14.4 Packing group</li> <li>ADR,RID,ADN, IMDG, IATA</li> <li>Void</li> <li>14.5 Environmental hazards:</li> <li>Marine pollutant:</li> <li>No</li> <li>14.6 Special precautions for user</li> <li>Warning: Gases.</li> <li>Danger code (Kemler):</li> <li>-</li> <li>EMS Number:</li> <li>F-D,S-U</li> </ul>		
Class     Class     2.1     Label     2.1     2.1     2.1     4 Packing group     ADR,RID,ADN, IMDG, IATA     Void     14.5 Environmental hazards:     Marine pollutant:     No     14.6 Special precautions for user     Warning: Gases.     Danger code (Kemler):     -     EMS Number:     F-D,S-U	· Label	2.1
Label       2.1         · 14.4 Packing group       Void         · ADR,RID,ADN, IMDG, IATA       Void         · 14.5 Environmental hazards:       No         · 14.6 Special precautions for user       Warning: Gases.         · Danger code (Kemler):       -         · EMS Number:       F-D,S-U	<b>*</b>	
<ul> <li>14.4 Packing group</li> <li>ADR,RID,ADN, IMDG, IATA Void</li> <li>14.5 Environmental hazards:         <ul> <li>Marine pollutant:</li> <li>No</li> </ul> </li> <li>14.6 Special precautions for user Warning: Gases.         <ul> <li>Danger code (Kemler):</li> <li>EMS Number:</li> <li>F-D,S-U</li> </ul> </li> </ul>		
<ul> <li>ADR,RID,ADN, IMDG, IATA Void</li> <li>14.5 Environmental hazards:         <ul> <li>Marine pollutant:</li> <li>No</li> </ul> </li> <li>14.6 Special precautions for user Warning: Gases.         <ul> <li>Danger code (Kemler):</li> <li>EMS Number:</li> <li>F-D,S-U</li> </ul> </li> </ul>	· Label	2.1
• Marine pollutant:       No         • 14.6 Special precautions for user       Warning: Gases.         • Danger code (Kemler):       -         • EMS Number:       F-D,S-U		Void
<ul> <li>• 14.6 Special precautions for user</li> <li>• Danger code (Kemler):</li> <li>• EMS Number:</li> <li>• F-D,S-U</li> </ul>		
- <b>Danger code (Kemler):</b> • <b>EMS Number:</b> F-D,S-U	· Marine pollutant:	No
• EMS Number: F-D,S-U		Warning: Gases.
	• Stowage Code	SW1 Protected from sources of heat.
<b>0</b>	Slowage Coue	SW22 For AEROSOLS with a maximum capacity of
litre: Category A. For AEROSOLS with a capacity		litre: Category A. For AEROSOLS with a capacity above
		1 litre: Category B. For WASTE AEROSOLS: Category
		(Contd. on page

Printing date 11.10.2016

Version number 82

Revision: 11.10.2016

#### Trade name: ZWALUW PENETRATING OIL 400ML

	(Contd. of page 7)
· 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.
· Transport/Additional information:	
· ADR/RID/ADN	
· 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

#### **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

· 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: 28, 29

• 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.
- H280 Contains gas under pressure; may explode if heated.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- · Department issuing SDS: Product safety department.
- · Contact: Kees van Bemmel / Pascal Timmermans
- · 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

(Contd. on page 9)

GB

Printing date 11.10.2016

Version number 82

Revision: 11.10.2016

# Trade name: ZWALUW PENETRATING OIL 400ML

	(Contd. of page
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)	
VOC: Volatile Organic Compounds (USA, EU)	
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 C: Gases under pressure – Compressed gas	
Acute Tox. 4: Acute toxicity – Category 4	
Skin Irrit. 2: Skin corrosion/irritation – Category 2	
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2	
Asp. Tox. 1: Aspiration hazard - Category 1	
* Data compared to the previous version altered.	