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

Printing date 11.10.2016

Version number 17

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SECTION 1: Identification of the substance/mixture and of the company/undertaking
· 1.1 Product identifier
· Trade name: ZWALUW DRILLING AND CUTTING OIL 400ML
<ul> <li>Article number: 12009740</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 Metal-working product</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: Product safety department. info@denbraven.com</li> <li>1.4 Emergency telephone number: 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>
Aquatic Chronic 3 H412Harmful to aquatic life with long lasting effects.
<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>
<ul> <li>Signal word Danger</li> <li>Hazard statements</li> <li>H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.</li> <li>H412 Harmful to aquatic life with long lasting effects.</li> <li>Precautionary statements</li> <li>P101 If medical advice is needed, have product container or label at hand.</li> <li>P102 Keep out of reach of children.</li> <li>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P251 Do not pierce or burn, even after use.</li> <li>P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C.</li> <li>P501 Dispose of contents/container to hazardous or special waste collection point.</li> </ul>
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- Additional information:
- Buildup of explosive mixtures possible without sufficient ventilation.
- · 2.3 Other hazards
- $\cdot$  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:				
White mineral oil	25-<50%			
isobutane Flam. Gas 1, H220; Press. Gas C, H280	25-<50%			
propane Flam. Gas 1, H220; Press. Gas C, H280	10-<20%			
Hydrocarbons, C10-C12, isoalkanes, <2% aromatics Flam. Liq. 3, H226;  Asp. Tox. 1, H304;  Aquatic Chronic 2, H411	5-<10%			
butane Flam. Gas 1, H220; Press. Gas C, H280	5-<10%			
	<ul> <li>Asp. Tox. 1, H304</li> <li>isobutane</li> <li>Flam. Gas 1, H220; Press. Gas C, H280</li> <li>propane</li> <li>Flam. Gas 1, H220; Press. Gas C, H280</li> <li>Hydrocarbons, C10-C12, isoalkanes, &lt;2% aromatics</li> <li>Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411</li> <li>butane</li> </ul>			

· 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.
- $\cdot$  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
- Suitable extinguishing agents:
- Foam

Fire-extinguishing powder

Carbon dioxide

· For safety reasons unsuitable extinguishing agents: Water with full jet

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 $\cdot$  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 Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Keep away from ignition sources.
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 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.

# **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)

• 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.

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•	ll soiled and contaminated clothing
	eaks and at the end of work.
Do not inhale gases / t	
Avoid contact with the	
	<b>on:</b> Use suitable respiratory protective device in case of insufficient ventilation. <b>device for short term use:</b> Filter AX
Protection of hands:	device for short term use: Filler AA
Protective glo	VAS
I lotte live git	
The glove material ha	s to be impermeable and resistant to the product/ the substance/ the preparation.
Material of gloves	
Nitrile rubber, NBR	
Recommended thickn	ess of the material: $\geq 0.45$ mm
Penetration time of g	love material
≥240 min	
	the time has to be found out by the manufacturer of the protective gloves and has to b
observed.	
• Eye protection:	
Tightly soular	
Tightly sealed	goggies
Body protection: Pro	tective work clothing
SECTION 9. Phy	sical and chemical properties
	breur und chemieur properties
	asic physical and chemical properties
· General Information	
· Appearance:	
Form:	Aerosol
Colour:	Red
Odour	Solvent-like

· Odour:	Solvent-like
<ul> <li>Change in condition</li> <li>Melting point/Melting range:</li> <li>Boiling point/Boiling range:</li> </ul>	
· Flash point:	Not applicable, as aerosol.
· Ignition temperature:	>200 °C
• Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Density at 20 °C:	0.64838 g/cm <sup>3</sup>
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
<ul> <li>Viscosity:</li> <li>Dynamic:</li> <li>Kinematic:</li> <li>Organic solvents:</li> <li>VOC (EC)</li> <li>9.2 Other information</li> </ul>	Not determined. Not determined. 64.9 % 420.9 g/l No further relevant information available.

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

 $\cdot$  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.
- $\cdot$  10.3 Possibility of hazardous reactions No dangerous reactions known.
- $\cdot$  10.4 Conditions to avoid No further relevant information available.
- $\cdot$  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.

· LD/LC50 values relevant for classification:

#### ATE (Acute Toxicity Estimates)

Inhalative LC50/4 h 103 mg/l (rat)

#### CAS: 75-28-5 isobutane

Inhalative LC50/4 h >50 mg/l (rat)

#### CAS: 74-98-6 propane

Inhalative LC50/4 h 20 mg/l (rat)

Hydrocarbons, C10-C12, isoalkanes, <2% aromatics

Oral LD50 >5000 mg/kg (rat)

Dermal LD50 >5000 mg/kg (rabbit)

CAS: 106-97-8 butane

Inhalative LC50/4 h 658 mg/l (rat)

· Primary irritant effect:

- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, 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** 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 Based on available data, the classification criteria are not met.

# **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity:

CAS: 8042-47-5 White mineral oil

LC50 >5000 mg/l (rat)

#### Hydrocarbons, C10-C12, isoalkanes, <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.

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#### · 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.

#### $\cdot$ 12.5 Results of PBT and vPvB assessment

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

 $\cdot$  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

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.

# SECTION 14: Transport information

· 14.1 UN-Number · ADR,RID,ADN, IMDG, IATA	UN1950
<ul> <li>· 14.2 UN proper shipping name</li> <li>· ADR/RID/ADN</li> <li>· IMDG</li> <li>· IATA</li> </ul>	UN1950 AEROSOLS AEROSOLS AEROSOLS, flammable
<ul> <li>· 14.3 Transport hazard class(es)</li> <li>· ADR/RID/ADN</li> </ul>	
· Class	2 5F Gases.
·Label	2.1
· IMDG, IATA	
· Class	2.1
· Label	2.1
· 14.4 Packing group · ADR,RID,ADN, IMDG, IATA	Void
<ul> <li>14.5 Environmental hazards:</li> <li>Marine pollutant:</li> </ul>	No
<ul> <li>14.6 Special precautions for user</li> <li>Danger code (Kemler):</li> </ul>	Warning: Gases.
· EMS Number:	F-D,S-U
· Stowage Code	SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above
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· · Segregation Code	<ul> <li>1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.</li> <li>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.</li> </ul>		
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		
<ul> <li>Tunnel restriction code</li> </ul>	D		
· IMDG			
· Limited quantities (LQ)	1L		
$\cdot$ 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
- $\cdot$  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.
- H226 Flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- H304 May be fatal if swallowed and enters airways.
- H411 Toxic to aquatic life with long lasting effects.
- · 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

IATA: International Air Transport Association

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GHS: Globally Harmonised System of Classification and Labelling of Chemicals	101
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	
Flam. Liq. 3: Flammable liquids – Category 3	
Asp. Tox. 1: Aspiration hazard – Category 1	
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2	
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3	
• * Data compared to the previous version altered.	