



**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Penetrating-Oil**

Revision date: 17.12.2019

Product code: VB\_71

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**Pictograms:**

**Hazard statements**

H222 Extremely flammable aerosol.  
 H229 Pressurised container: May burst if heated.  
 H336 May cause drowsiness or dizziness.

**Precautionary statements**

P501 Dispose of contents/container to Dispose of this material and its container to hazardous or special waste collection point. .  
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P271 Use only outdoors or in a well-ventilated area.  
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P251 Do not pierce or burn, even after use.  
 P211 Do not spray on an open flame or other ignition source.  
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P102 Keep out of reach of children.  
 P101 If medical advice is needed, have product container or label at hand.

**SECTION 3: Composition/information on ingredients**
**3.2. Mixtures**
**Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics			25-50 %
	918-481-9		01-2119457273-39	
	Asp. Tox. 1; H304			
74-98-6	propane			10-25%
	200-827-9	601-003-00-5		
	Flam. Gas 1; H220			
75-28-5	isobutane			10-25 %
	200-857-2	601-004-00-0		
	Flam. Gas 1; H220			
64742-81-0	Kerosine (petroleum), hydrodesulfurized; Kerosine - unspecified			10-20%
	265-184-9	649-423-00-8		
	Asp. Tox. 1; H304			
106-97-8	butane			2,5-10 %
	203-448-7	601-004-00-0		
	Flam. Gas 1; H220			
111-76-2	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve			<2,5 %
	203-905-0	603-014-00-0		
	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Eye Irrit. 2, Skin Irrit. 2; H332 H312 H302 H319 H315			

Full text of H and EUH statements: see section 16.

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**SECTION 4: First aid measures****4.1. Description of first aid measures****After inhalation**

Provide fresh air.

**After contact with skin**

After contact with skin, wash immediately with: Water. Change contaminated clothing.

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water.

**After ingestion**

If swallowed, immediately drink: Water.

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

No data available

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

No data available

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**Carbon dioxide (CO<sub>2</sub>). Foam. Extinguishing powder.**Unsuitable extinguishing media**

Water with tenside additive. Water.

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

Combustible. Vapours may form explosive mixtures with air. Heating causes rise in pressure with risk of bursting.

**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.

**Additional information**

Use water spray jet to protect personnel and to cool endangered containers.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Remove all sources of ignition.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains. Explosion hazard.

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

Ventilate affected area.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

**Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking.

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

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#### Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from sources of ignition - No smoking.

#### Hints on joint storage

Do not store together with: Material, rich in oxygen, oxidizing.

#### Further information on storage conditions

Ensure adequate ventilation of the storage area. Avoid contact with eyes and skin.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
111-76-2	2-Butoxyethanol	25	123		TWA (8 h)	WEL
		50	246		STEL (15 min)	WEL
106-97-8	Butane	600	1450		TWA (8 h)	WEL
		750	1810		STEL (15 min)	WEL

#### Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
111-76-2	2-Butoxyethanol	butoxyacetic acid (creatinine)	240 mmol/mol	urine	Post shift

#### Additional advice on limit values

No data available

### 8.2. Exposure controls



#### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

#### Protective and hygiene measures

Change contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

#### Eye/face protection

Tightly sealed safety glasses.

#### Hand protection

DIN EN 374 Tested protective gloves are to be worn: Butyl rubber. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### Skin protection

Protective clothing:

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

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**Environmental exposure controls**

No data available

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state: Aerosol  
Colour: colourless  
Odour: characteristic

**Changes in the physical state**

Initial boiling point and boiling range: -0,5 °C  
Flash point: < 0 °C  
Sustaining combustion: Sustaining combustion  
Lower explosion limits:  
Upper explosion limits:  
Ignition temperature: >200 °C  
Density: 0,703 g/cm<sup>3</sup>

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No data available

**10.2. Chemical stability**

No data available

**10.3. Possibility of hazardous reactions**

No data available

**10.4. Conditions to avoid**

Keep away from heat. Ignition hazard.

**10.5. Incompatible materials**

No data available

**10.6. Hazardous decomposition products**

No data available

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



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## Acute toxicity

CAS No	Chemical name					
	Exposure route	Dose	Species	Source	Method	
106-97-8	butane					
	inhalation (4 h) gas	LC50 ppm	273000	Rat	GESTIS	
111-76-2	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve					
	oral	LD50 mg/kg	470	Rat		
	dermal	ATE mg/kg	1100			
	inhalation gas	ATE ppm	4500			

## SECTION 12: Ecological information

## 12.1. Toxicity

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
111-76-2	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve					
	Acute fish toxicity	LC50 mg/l	1490	96 h	Lepomis macrochirus	

## 12.3. Bioaccumulative potential

## Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
74-98-6	propane	2,36
75-28-5	isobutane	2,8
106-97-8	butane	2,89
111-76-2	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve	0,81 (25°C)

## Further information

Do not allow to enter into surface water or drains.

## SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

## Advice on disposal

Dispose of waste according to applicable legislation.

## Waste disposal number of waste from residues/unused products

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

## Waste disposal number of contaminated packaging

150104 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging

## Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

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**SECTION 14: Transport information**
**Land transport (ADR/RID)**

**14.1. UN number:** UN1950  
**14.2. UN proper shipping name:** AEROSOLS  
**14.3. Transport hazard class(es):** 2  
 Hazard label: 2.1



Classification code: 5F  
 Special Provisions: 190 327 625  
 Limited quantity: 1 L  
 Transport category: 2  
 Tunnel restriction code: D

**Other applicable information (land transport)**

E0

**Inland waterways transport (ADN)**

**14.1. UN number:** UN1950  
**14.2. UN proper shipping name:** AEROSOLS  
**14.3. Transport hazard class(es):** 2  
 Hazard label: 2.1



Classification code: 5F  
 Special Provisions: 190 327 344 625  
 Limited quantity: 1 L

**Other applicable information (inland waterways transport)**

E0

**Marine transport (IMDG)**

**14.1. UN number:** UN1950  
**14.2. UN proper shipping name:** AEROSOLS  
**14.3. Transport hazard class(es):** 2  
**14.4. Packing group:** -  
 Hazard label: 2, see SP63

Special Provisions: 63, 190, 277, 327, 344, 959  
 Limited quantity: See SP277  
 EmS: F-D, S-U

**Other applicable information (marine transport)**

E0

**Air transport (ICAO-TI/IATA-DGR)**

**14.1. UN number:** UN1950  
**14.2. UN proper shipping name:** AEROSOLS, flammable

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**14.3. Transport hazard class(es):**

2.1

Hazard label:

2.1



Special Provisions:

A145 A167

Limited quantity Passenger:

30 kg G

IATA-packing instructions - Passenger:

203

IATA-max. quantity - Passenger:

75 kg

IATA-packing instructions - Cargo:

203

IATA-max. quantity - Cargo:

150 kg

**Other applicable information (air transport)**

E0

: Y203

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 28: isobutane; butane

2004/42/EC (VOC): 9,278 %

**National regulatory information**

Water contaminating class (D): 2 - clearly water contaminating

**SECTION 16: Other information****Relevant H and EUH statements (number and full text)**

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H229	Pressurised container: May burst 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.
H336	May cause drowsiness or dizziness.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)