

Nourish and Protect Wood Protective Treatment Clear and Colours Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
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Version: 1.3

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

1.1. Product identifier

Product form : Mixture
Name : Nourish and Protect Wood Protective Treatment Clear and Colours
:

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

1.2.1. Relevant identified uses

Intended for general public
Main use category : Consumer use, Professional use, Industrial use
Use of the substance/mixture : Wood treatment

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Barrettine
Barrettine Works
St Ivel Way
Warmley
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BS30 8TY

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Fax: +44 (0) 1179 352437
Email: sales@barrettine.co.uk

1.4. Emergency telephone number

Emergency number : +44 (0) 1270 502891 (Out of Office Hours Emergency Number)

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	: +353 1 8379964	
United Kingdom	National Poisons Information Service (NHS Direct)	http://www.npis.org	111 (England & Wales only) or 112 (EU) or 08454 24 24 24 (Scotland)	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 3 H226
Specific target organ toxicity — Single exposure, Category 3, Narcosis H336
Aspiration hazard, Category 1 H304

Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. May cause drowsiness or dizziness. May be fatal if swallowed and enters airways.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS02

GHS07

GHS08

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Signal word (CLP)	: Danger
Hazardous ingredients	: Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics
Hazard statements (CLP)	: H226 - Flammable liquid and vapour H304 - May be fatal if swallowed and enters airways H336 - May cause drowsiness or dizziness
Precautionary statements (CLP)	: P102 - Keep out of reach of children P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking P261 - Avoid breathing fume, vapours, mist, spray P271 - Use only outdoors or in a well-ventilated area P280 - Wear eye protection, face protection, protective clothing, protective gloves P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor P331 - Do NOT induce vomiting P405 - Store locked up P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation
EUH-statements	: EUH066 - Repeated exposure may cause skin dryness or cracking
Security closing plug for children	: Applicable
Tactile warning	: Applicable

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	(EC no) 919-857-5 (REACH-no) 01-2119463258-33-XXXX	50 - 80	Flam. Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304
2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether	(CAS No) 112-34-5 (EC no) 203-961-6 (EC index no) 603-096-00-8	1 - 5	Eye Irrit. 2, H319
paraffin, wax substance with national workplace exposure limit(s) (BE, DK, ES, FI, FR, GB, GR, IE, IT, PL, PT, RO)	(CAS No) 8002-74-2 (EC no) 232-315-6	0,1 - 1	Not classified
bitumen substance with national workplace exposure limit(s) (BE, GB, IT, PT)	(CAS No) 8052-42-4 (EC no) 232-490-9 (REACH-no) 01-2119480172-44-XXXX	< 1	Not classified
dimethyl sulfoxide substance with national workplace exposure limit(s) (AT, DK, FI, LT, SE)	(CAS No) 67-68-5 (EC no) 200-664-3	< 0,1	Not classified
xylene substance with a Community workplace exposure limit substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DE, DK, ES, FI, FR, GB, GR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE)	(CAS No) 1330-20-7 (EC no) 215-535-7 (EC index no) 601-022-00-9 (REACH-no) 01-2119488216-32-XXXX	< 0,1	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304
cobalt(II) 2-ethylhexanoate substance with national workplace exposure limit(s) (GB)	(CAS No) 136-52-7 (EC no) 205-250-6 (REACH-no) 01-2119524678-29-XXXX	< 0,1	Eye Irrit. 2, H319 Skin Sens. 1, H317 Repr. 2, H361f Aquatic Acute 1, H400 Aquatic Chronic 3, H412
2-ethyl hexanoic acid substance with national workplace exposure limit(s) (BE, ES, IE, IT, PT)	(CAS No) 149-57-5 (EC no) 205-743-6 (EC index no) 607-230-00-6	< 0,1	Repr. 2, H361d

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Call a physician immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Do not induce vomiting. Call a physician immediately.

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

Symptoms/injuries	: May cause drowsiness or dizziness.
Symptoms/injuries after skin contact	: Repeated exposure may cause skin dryness or cracking.
Symptoms/injuries after ingestion	: Risk of lung oedema.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Flammable liquid and vapour.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing fume, vapours, mist, spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information	: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing fume, vapours, mist, spray.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Ground/bond container and receiving equipment.
Storage conditions	: Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

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7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

paraffin, wax (8002-74-2)		
Belgium	Local name	Paraffine (cire de) (fumées)
Belgium	Limit value (mg/m ³)	2 mg/m ³
Croatia	Local name	Parafinski vosak, dim
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	2 mg/m ³
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³)	6 mg/m ³
Denmark	Local name	Paraffinrøg
Denmark	Grænseværdie (langvarig) (mg/m ³)	2 mg/m ³
Estonia	Local name	Parafiin (aurud)
Estonia	OEL TWA (mg/m ³)	2 mg/m ³
Finland	Local name	Parafiinihuurut
Finland	HTP-arvo (8h) (mg/m ³)	1 mg/m ³
France	Local name	Paraffine (cire de), fumée
France	VME (mg/m ³)	2 mg/m ³
Greece	OEL TWA (mg/m ³)	2 mg/m ³
Greece	OEL STEL (mg/m ³)	6 mg/m ³
Ireland	Local name	Paraffin wax, fume
Ireland	OEL (8 hours ref) (mg/m ³)	2 mg/m ³
Ireland	OEL (15 min ref) (mg/m ³)	6 mg/m ³
Poland	Local name	Parafina stała dymy
Poland	NDS (mg/m ³)	2 mg/m ³
Portugal	Local name	Parafina (cera), fumos
Portugal	OEL TWA (mg/m ³)	2 mg/m ³
Romania	Local name	Parafina (fumuri)
Romania	OEL TWA (mg/m ³)	2 mg/m ³
Romania	OEL STEL (mg/m ³)	6 mg/m ³
Spain	Local name	Cera de parafina
Spain	VLA-ED (mg/m ³)	2 mg/m ³ humos
United Kingdom	Local name	Paraffin wax
United Kingdom	WEL TWA (mg/m ³)	2 mg/m ³ fume
United Kingdom	WEL STEL (mg/m ³)	6 mg/m ³ fume
Iceland	Local name	Parafinreykur
Iceland	OEL (8 hours ref) (mg/m ³)	2 mg/m ³
Norway	Local name	Parafin (røyk)
Norway	Grenseverdier (AN) (mg/m ³)	2 mg/m ³
Switzerland	Local name	Paraffine, fumée
Switzerland	VME (mg/m ³)	2 mg/m ³
Australia	Local name	Paraffin wax (fume)
Australia	TWA (mg/m ³)	2 mg/m ³
USA - ACGIH	Local name	Paraffin wax fume
USA - ACGIH	ACGIH TWA (mg/m ³)	2 mg/m ³
USA - ACGIH	Remark (ACGIH)	URT irr; nausea
xylene (1330-20-7)		
EU	Local name	Xylene, mixed isomers, pure
EU	IOELV TWA (mg/m ³)	221 mg/m ³
EU	IOELV TWA (ppm)	50 ppm

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xylene (1330-20-7)		
EU	IOELV STEL (mg/m ³)	442 mg/m ³
EU	IOELV STEL (ppm)	100 ppm
EU	Notes	Skin
Austria	Local name	Xylol (alle Isomeren)
Austria	MAK (mg/m ³)	221 mg/m ³
Austria	MAK (ppm)	50 ppm
Austria	MAK Short time value (mg/m ³)	442 mg/m ³
Austria	MAK Short time value (ppm)	100 ppm
Austria	Remark (AT)	H
Belgium	Local name	Xylène, isomères mixtes, purs
Belgium	Limit value (mg/m ³)	221 mg/m ³
Belgium	Limit value (ppm)	50 ppm
Belgium	Short time value (mg/m ³)	442 mg/m ³
Belgium	Short time value (ppm)	100 ppm
Belgium	Remark (BE)	D
Bulgaria	Local name	Ксилен (смес от изомери),чист*
Bulgaria	OEL TWA (mg/m ³)	221 mg/m ³
Bulgaria	OEL STEL (mg/m ³)	442 mg/m ³
Croatia	Local name	Ksilen (svi izomeri)
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	221 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (ppm)	50 ppm
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³)	442 mg/m ³
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	100 ppm
Croatia	Naznake (HR)	K, EU* K, Xn
Czech Republic	Local name	Xylen technická sm s isomer a (všechny isomery)
Czech Republic	Expoziční limity (PEL) (mg/m ³)	200 mg/m ³
Czech Republic	Expoziční limity (PEL) (ppm)	50 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m ³)	400 mg/m ³
Czech Republic	Expoziční limity (NPK-P) (ppm)	90 ppm
Czech Republic	Remark (CZ)	D
Denmark	Local name	Xylen, alle isomere (1996)
Denmark	Grænseværdie (langvarig) (mg/m ³)	109 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	25 ppm
Denmark	Anmærkninger (DK)	EH
Estonia	Local name	Ksüleen (dimetüülbenseen)
Estonia	OEL TWA (mg/m ³)	200 mg/m ³
Estonia	OEL TWA (ppm)	50 ppm
Estonia	OEL STEL (mg/m ³)	450 mg/m ³
Estonia	OEL STEL (ppm)	100 ppm
Finland	Local name	Ksyleeni
Finland	HTP-arvo (8h) (mg/m ³)	220 mg/m ³
Finland	HTP-arvo (8h) (ppm)	50 ppm
Finland	HTP-arvo (15 min)	440 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	100 ppm
France	Local name	Xylène, isomères mixtes, purs
France	VME (mg/m ³)	221 mg/m ³
France	VME (ppm)	50 ppm
France	VLE (mg/m ³)	442 mg/m ³

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xylene (1330-20-7)		
France	VLE (ppm)	100 ppm
Germany	Local name	Xylol(allelsomeren)
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	440 mg/m ³
Germany	TRGS 900 Occupational exposure limit value (ppm)	100 ppm
Germany	Remark (TRGS 900)	DFG,EU,H
Greece	OEL TWA (mg/m ³)	435 mg/m ³
Greece	OEL TWA (ppm)	100 ppm
Greece	OEL STEL (mg/m ³)	650 mg/m ³
Greece	OEL STEL (ppm)	150 ppm
Hungary	Local name	XILOL(ok)
Hungary	AK-érték	221 mg/m ³
Hungary	CK-érték	442 mg/m ³
Hungary	Megjegyzések (HU)	b; EU1
Ireland	Local name	Xylene, mixed isomers
Ireland	OEL (8 hours ref) (mg/m ³)	221 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	50 ppm
Ireland	OEL (15 min ref) (mg/m ³)	442 mg/m ³
Ireland	OEL (15 min ref) (ppm)	100 ppm
Ireland	Notes (IE)	Sk, IOELV
Italy	Local name	Xilene, isomeri misti, puro
Italy	OEL TWA (mg/m ³)	221 mg/m ³
Italy	OEL TWA (ppm)	50 ppm
Italy	OEL STEL (mg/m ³)	442 mg/m ³
Italy	OEL STEL (ppm)	100 ppm
Latvia	Local name	Ksilols (o-,m-,p-ksilols, dimetilbenzols)
Latvia	OEL TWA (mg/m ³)	221 mg/m ³
Latvia	OEL TWA (ppm)	50 ppm
Latvia	OEL STEL (mg/m ³)	442 mg/m ³
Latvia	OEL STEL (ppm)	100 ppm
Lithuania	Local name	Ksilenas
Lithuania	IPRV (mg/m ³)	200 mg/m ³
Lithuania	IPRV (ppm)	50 ppm
Lithuania	TPRV (mg/m ³)	450 mg/m ³
Lithuania	TPRV (ppm)	100 ppm
Lithuania	Remark (LT)	O
Luxembourg	Local name	Xylène, isomères mixtes, purs
Luxembourg	OEL TWA (mg/m ³)	221 mg/m ³
Luxembourg	OEL TWA (ppm)	50 ppm
Luxembourg	OEL STEL (mg/m ³)	442 mg/m ³
Luxembourg	OEL STEL (ppm)	100 ppm
Malta	Local name	Xylene, mixed isomers, pure
Malta	OEL TWA (mg/m ³)	221 mg/m ³
Malta	OEL TWA (ppm)	50 ppm
Malta	OEL STEL (mg/m ³)	442 mg/m ³
Malta	OEL STEL (ppm)	100 ppm
Netherlands	Local name	Xyleen, o-, m-, p-isomeren
Netherlands	Grenswaarde TGG 8H (mg/m ³)	210 mg/m ³

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xylene (1330-20-7)		
Netherlands	Grenswaarde TGG 8H (ppm)	48 ppm (Xyleen (o-,m- en p-isomeren); Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 15MIN (mg/m ³)	442 mg/m ³
Netherlands	Grenswaarde TGG 15MIN (ppm)	100 ppm (Xyleen (o-,m- en p-isomeren); Netherlands; Short time value; Public occupational exposure limit value)
Netherlands	Remark (MAC)	H
Poland	Local name	Ksilen mieszanina izomerów: 1,2-; 1,3-; 1,4-
Poland	NDS (mg/m ³)	100 mg/m ³
Portugal	Local name	Xileno (isómeros)
Portugal	OEL TWA (ppm)	100 ppm
Portugal	OEL STEL (ppm)	150 ppm
Romania	Local name	Xilen (izomeri)
Romania	OEL TWA (mg/m ³)	221 mg/m ³
Romania	OEL TWA (ppm)	50 ppm
Romania	OEL STEL (mg/m ³)	442 mg/m ³
Romania	OEL STEL (ppm)	100 ppm
Slovenia	Local name	ksilen (mešane izomere)
Slovenia	OEL TWA (mg/m ³)	221 mg/m ³
Slovenia	OEL TWA (ppm)	50 ppm
Slovenia	OEL STEL (mg/m ³)	442 mg/m ³
Slovenia	OEL STEL (ppm)	100 ppm
Spain	Local name	Xilenos, mezcla isómeros
Spain	VLA-ED (mg/m ³)	221 mg/m ³
Spain	VLA-ED (ppm)	50 ppm
Spain	VLA-EC (mg/m ³)	442 mg/m ³
Spain	VLA-EC (ppm)	100 ppm
Spain	Notes	Vía dérmica: (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante. Para más información véase el Apartado 5 de este documento.), VLB® (Agente químico que tiene Valor Límite Biológico específico en este documento.), VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo. Todos estos agentes químicos figuran al menos en una de las directivas de valores límite indicativos publicadas hasta ahora (ver Anexo C. Bibliografía). Los estados miembros disponen de un tiempo fijado en dichas directivas para su transposición a los valores límites de cada país miembro. Una vez adoptados, estos valores tienen la misma validez que el resto de los valores adoptados por el país.)
Sweden	Local name	Xylene
Sweden	nivågränsvärde (NVG) (mg/m ³)	200 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	50 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	450 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	100 ppm
United Kingdom	Local name	Xylene, o-,m-,p- or mixed isomers
United Kingdom	WEL TWA (mg/m ³)	220 mg/m ³
United Kingdom	WEL TWA (ppm)	50 ppm

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xylene (1330-20-7)		
United Kingdom	WEL STEL (mg/m ³)	441 mg/m ³
United Kingdom	WEL STEL (ppm)	100 ppm
United Kingdom	Remark (WEL)	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity), BMGV (Biological monitoring guidance values are listed in Table 2)
Norway	Local name	Xylen (alle isomere)
Norway	Grenseverdier (AN) (mg/m ³)	108 mg/m ³
Norway	Grenseverdier (AN) (ppm)	25 ppm
Norway	Merknader (NO)	H
Switzerland	Local name	Xylène (tous les isomères)
Switzerland	VME (mg/m ³)	435 mg/m ³
Switzerland	VME (ppm)	100 ppm
Switzerland	VLE (mg/m ³)	870 mg/m ³
Switzerland	VLE (ppm)	200 ppm
Switzerland	Remark (CH)	4x15
USA - ACGIH	Local name	Xylene
USA - ACGIH	ACGIH TWA (ppm)	100 ppm
USA - ACGIH	ACGIH STEL (ppm)	150 ppm
USA - ACGIH	Remark (ACGIH)	URT & eye irr; CNS impair
USA - OSHA	Local name	Xylenes (o-, m-, p-isomers)
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	435 mg/m ³
USA - OSHA	OSHA PEL (TWA) (ppm)	100 ppm
2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether (112-34-5)		
EU	IOELV TWA (mg/m ³)	67,5 mg/m ³ (2-(2-Butoxyethoxy)ethanol; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV TWA (ppm)	10 ppm (2-(2-Butoxyethoxy)ethanol; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV STEL (mg/m ³)	101,2 mg/m ³ (2-(2-Butoxyethoxy)ethanol; EU; Short time value; Indicative occupational exposure limit value)
EU	IOELV STEL (ppm)	15 ppm (2-(2-Butoxyethoxy)ethanol; EU; Short time value; Indicative occupational exposure limit value)
Austria	Local name	Butyldiglykol
Austria	MAK (mg/m ³)	67,5 mg/m ³
Austria	MAK (ppm)	10 ppm
Austria	MAK Short time value (mg/m ³)	101,2 mg/m ³
Austria	MAK Short time value (ppm)	15 ppm
Belgium	Local name	2-(2-Butoxyéthoxy)éthanol
Belgium	Limit value (mg/m ³)	67,5 mg/m ³
Belgium	Limit value (ppm)	10 ppm
Belgium	Short time value (mg/m ³)	101,2 mg/m ³
Belgium	Short time value (ppm)	15 ppm
Bulgaria	Local name	2-(2-Бутокси-етокси) етанол•Ванадий - оксиди и неорг.
Bulgaria	OEL TWA (mg/m ³)	67,5 mg/m ³
Bulgaria	OEL STEL (mg/m ³)	101,2 mg/m ³
Croatia	Local name	2-(2-Butoksietoksi)etanol; (Dietilen-glikol monobutil-eter)
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	67,5 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (ppm)	10 ppm
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³)	101,2 mg/m ³

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2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether (112-34-5)		
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	15 ppm
Croatia	Naznake (HR)	EU** Xi
Czech Republic	Local name	2-(2-Buthoxyethoxy)-ethanol
Czech Republic	Expoziční limity (PEL) (mg/m ³)	70 mg/m ³
Czech Republic	Expoziční limity (PEL) (ppm)	10,6 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m ³)	100 mg/m ³
Czech Republic	Expoziční limity (NPK-P) (ppm)	15 ppm
Denmark	Local name	Butyldiglycol (2007)
Denmark	Grænseværdie (langvarig) (mg/m ³)	67,5 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	10 ppm
Denmark	Anmærkninger (DK)	E
Finland	Local name	2-(2-Butoksietoksi)etanoli
Finland	HTP-arvo (8h) (mg/m ³)	68 mg/m ³
Finland	HTP-arvo (8h) (ppm)	10 ppm
France	Local name	2-(2-butoxyéthoxy) éthanol
France	VME (mg/m ³)	67,5 mg/m ³
France	VME (ppm)	10 ppm
France	VLE (mg/m ³)	101,2 mg/m ³
France	VLE (ppm)	15 ppm
Germany	Local name	2-(2-Butoxyethoxy)ethanol
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	67 mg/m ³
Germany	TRGS 900 Occupational exposure limit value (ppm)	10 ppm
Germany	Remark (TRGS 900)	EU,DFG,Y,11
Hungary	Local name	2-(2-BUTOXIETOXI)ETANOL
Hungary	AK-érték	67,5 mg/m ³
Hungary	CK-érték	101,2 mg/m ³
Hungary	Megjegyzések (HU)	EU2
Ireland	Local name	2-(2-Butoxyethoxy)ethanol
Ireland	OEL (8 hours ref) (mg/m ³)	67,5 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	10 ppm
Ireland	OEL (15 min ref) (mg/m ³)	101,2 mg/m ³
Ireland	OEL (15 min ref) (ppm)	15 ppm
Ireland	Notes (IE)	IOELV
Italy	Local name	2-(2-Butossietossi)etanolo
Italy	OEL TWA (mg/m ³)	67,5 mg/m ³
Italy	OEL TWA (ppm)	10 ppm
Italy	OEL STEL (mg/m ³)	101,2 mg/m ³
Italy	OEL STEL (ppm)	15 ppm
Latvia	Local name	2-(2-Butoksietoksi) etanols(butildiglikols)
Latvia	OEL TWA (mg/m ³)	67,5 mg/m ³
Latvia	OEL TWA (ppm)	10 ppm
Latvia	OEL STEL (mg/m ³)	101,2 mg/m ³
Latvia	OEL STEL (ppm)	15 ppm
Lithuania	Local name	2-(2-butoksietoksi)etanolis (dietilenglikolio monobutileteris, oksidietanolio monobutileteris)

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2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether (112-34-5)		
Lithuania	IPRV (mg/m ³)	100 mg/m ³
Lithuania	IPRV (ppm)	15 ppm
Lithuania	TPRV (mg/m ³)	200 mg/m ³
Lithuania	TPRV (ppm)	30 ppm
Luxembourg	Local name	2-(2-butoxyéthoxy)éthanol
Luxembourg	OEL TWA (mg/m ³)	67,5 mg/m ³
Luxembourg	OEL TWA (ppm)	10 ppm
Luxembourg	OEL STEL (mg/m ³)	101,2 mg/m ³
Luxembourg	OEL STEL (ppm)	15 ppm
Malta	Local name	2-(2-Butoxyethoxy) ethanol
Malta	OEL TWA (mg/m ³)	67,5 mg/m ³
Malta	OEL TWA (ppm)	10 ppm
Malta	OEL STEL (mg/m ³)	101,2 mg/m ³
Malta	OEL STEL (ppm)	15 ppm
Netherlands	Local name	2-(2-Butoxyethoxy)ethanol
Netherlands	Grenswaarde TGG 8H (mg/m ³)	50 mg/m ³
Netherlands	Grenswaarde TGG 8H (ppm)	7,4 ppm (2-(2-butoxyethoxy)ethanol; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 15MIN (mg/m ³)	100 mg/m ³
Netherlands	Grenswaarde TGG 15MIN (ppm)	15 ppm (2-(2-butoxyethoxy)ethanol; Netherlands; Short time value; Public occupational exposure limit value)
Netherlands	Remark (MAC)	H
Poland	Local name	2-(2-Butoksyetoksy)etanol
Poland	NDS (mg/m ³)	67 mg/m ³
Poland	NDSCh (mg/m ³)	100 mg/m ³
Romania	Local name	Dowanol DB (eter monobutilic al dietilenglicolului)
Romania	OEL TWA (mg/m ³)	150 mg/m ³
Romania	OEL STEL (mg/m ³)	250 mg/m ³
Slovenia	Local name	2-(2-butoksietoksi)etanol (butildietilenglikol)
Slovenia	OEL TWA (mg/m ³)	67,5 mg/m ³
Slovenia	OEL TWA (ppm)	10 ppm
Slovenia	OEL STEL (mg/m ³)	101,25 mg/m ³
Slovenia	OEL STEL (ppm)	15 ppm
Spain	Local name	2-(2-Butoxietoxi) etanol (Dietilenglicol monobutiléter)
Spain	VLA-ED (mg/m ³)	67,5 mg/m ³
Spain	VLA-ED (ppm)	10 ppm
Spain	VLA-EC (mg/m ³)	101,2 mg/m ³
Spain	VLA-EC (ppm)	15 ppm

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2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether (112-34-5)		
Spain	Notes	(2007), VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo. Todos estos agentes químicos figuran al menos en una de las directivas de valores límite indicativos publicadas hasta ahora (ver Anexo C. Bibliografía). Los estados miembros disponen de un tiempo fijado en dichas directivas para su transposición a los valores límites de cada país miembro. Una vez adoptados, estos valores tienen la misma validez que el resto de los valores adoptados por el país.), r (Esta sustancia tiene establecidas restricciones a la fabricación, la comercialización o el uso en los términos especificados en el "Reglamento (CE) nº 1907/2006 sobre Registro, Evaluación, Autorización y Restricción de sustancias y preparados químicos" (REACH) de 18 de diciembre de 2006 (DOUE L 369 de 30 de diciembre de 2006). Las restricciones de una sustancia pueden aplicarse a todos los usos o sólo a usos concretos. El anexo XVII del Reglamento REACH contiene la lista de todas las sustancias restringidas y especifica los usos que se han restringido.)
Sweden	Local name	Diethylene glycol mono-butyl ether
Sweden	nivågränsvärde (NVG) (mg/m ³)	100 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	15 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	200 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	30 ppm
United Kingdom	Local name	2-(2-Butoxyethoxy)ethanol
United Kingdom	WEL TWA (mg/m ³)	67,5 mg/m ³
United Kingdom	WEL TWA (ppm)	10 ppm
United Kingdom	WEL STEL (mg/m ³)	101,2 mg/m ³
United Kingdom	WEL STEL (ppm)	15 ppm
Iceland	Local name	2-(2-bútoxýetoxý)etanól (bútýldíglýkól)
Iceland	OEL (8 hours ref) (mg/m ³)	67,5 mg/m ³
Iceland	OEL (8 hours ref) (ppm)	10 ppm
Iceland	OEL (15 min ref) (mg/m ³)	101,2 mg/m ³
Iceland	OEL (15 min ref) (ppm)	15 ppm
Norway	Local name	2-2(Butoksyetoksy)etanol
Norway	Grenseverdier (AN) (mg/m ³)	68 mg/m ³
Norway	Grenseverdier (AN) (ppm)	10 ppm
Switzerland	Local name	Butyldiglycol
Switzerland	VME (mg/m ³)	67 mg/m ³
Switzerland	VME (ppm)	10 ppm
Switzerland	VLE (mg/m ³)	101,2 mg/m ³
Switzerland	VLE (ppm)	15 ppm
Switzerland	Remark (CH)	4x15
USA - ACGIH	Local name	Diethylene glycol monobutyl ether
USA - ACGIH	ACGIH TWA (ppm)	10 ppm
dimethyl sulfoxide (67-68-5)		
Austria	Local name	Dimethylsulfoxid
Austria	MAK (mg/m ³)	160 mg/m ³
Austria	MAK (ppm)	50 ppm
Austria	Remark (AT)	H
Denmark	Local name	Dimethylsulfoxid (2005)
Denmark	Grænseværdie (langvarig) (mg/m ³)	160 mg/m ³

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dimethyl sulfoxide (67-68-5)		
Denmark	Grænseværdie (langvarig) (ppm)	50 ppm
Estonia	Local name	Dimetüülsulfoksiid (DMSO)
Estonia	OEL TWA (mg/m ³)	150 mg/m ³
Estonia	OEL TWA (ppm)	50 ppm
Estonia	OEL STEL (mg/m ³)	500 mg/m ³
Estonia	OEL STEL (ppm)	150 ppm
Finland	Local name	Dimetyylisulfoksiidi
Finland	HTP-arvo (8h) (ppm)	50 ppm
Lithuania	Local name	Dimetilsulfoksidas
Lithuania	IPRV (mg/m ³)	150 mg/m ³
Lithuania	IPRV (ppm)	50 ppm
Lithuania	TPRV (mg/m ³)	500 mg/m ³
Lithuania	TPRV (ppm)	150 ppm
Lithuania	Remark (LT)	O
Slovenia	Local name	dimetilsulfoksid
Slovenia	OEL TWA (mg/m ³)	160 mg/m ³
Sweden	Local name	Dimethyl sulfoxide
Sweden	nivågränsvärde (NVG) (mg/m ³)	150 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	50 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	500 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	150 ppm
Switzerland	Local name	Diméthylsulfoxyde
Switzerland	VME (mg/m ³)	160 mg/m ³
Switzerland	VME (ppm)	50 ppm
Switzerland	VLE (mg/m ³)	320 mg/m ³
Switzerland	VLE (ppm)	100 ppm
Switzerland	Remark (CH)	4x15
bitumen (8052-42-4)		
Belgium	Limit value (mg/m ³)	5 mg/m ³ (Pétroles (bitumes de) (fumées); Belgium; Time-weighted average exposure limit 8 h)
United Kingdom	WEL TWA (mg/m ³)	5 mg/m ³ Asphalt, petroleum fumes; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (mg/m ³)	10 mg/m ³ Asphalt, petroleum fumes; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
USA - ACGIH	ACGIH TWA (mg/m ³)	0,5 mg/m ³ (Asphalt (Bitumen) fume, as benzene-soluble aerosol; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Inhalable fraction)
2-ethyl hexanoic acid (149-57-5)		
Belgium	Local name	Acide 2-éthylhexanoïque (vapeur et aérosol)
Belgium	Limit value (mg/m ³)	5 mg/m ³
Ireland	Local name	Ethyl hexanoic acid
Ireland	OEL (8 hours ref) (mg/m ³)	4 mg/m ³
Portugal	Local name	Ácido 2-etil-hexanoico
Portugal	OEL TWA (mg/m ³)	5 mg/m ³
Spain	Local name	Ácido 2-etilhexanoico

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2-ethyl hexanoic acid (149-57-5)		
Spain	VLA-ED (mg/m ³)	5 mg/m ³ FIV (Fracción inhalable y vapor. Numerosos agentes químicos se presentan usualmente en el ambiente de trabajo en forma de materiaparticulada y su valor límite se expresa en mg/m ³ (aunque tenga su equivalencia en ppm). Pero, por sus propiedades físico-químicas o condiciones de utilización, estos agentes pueden presentarse también en forma de vapor, por lo que las dos fases, materia particulada y vapor presentes de forma simultánea en el ambiente, contribuyen a la exposición. La notación FIV indica que un agente químico tiene una presión de vapor lo suficientemente elevada como para poder presentarse en el ambiente en las dos formas, materia particulada y vapor. En estos casos se tiene en cuenta la relación entre la concentración en el aire saturado de vapor y el VLA-ED®, asignando la notación cuando el cociente se encuentra entre 0,1 y 10. Además de lo indicado, el higienista industrial debe también considerar la posible presencia de ambas fases para la correcta evaluación de la exposición en las operaciones, por ejemplo, de pulverización, en procesos que conlleven cambios de temperatura que puedan afectar al estado físico del agente químico o cuando una fracción significativa del vapor puede disolverse o adsorberse en las partículas de otra sustancia (de la misma forma que los compuestos solubles en agua en ambientes con humedad elevada). (Véase C. Perez and S. C. Soderholm. Some chemicals requiring special consideration when deciding whether to sample the particle, vapor, or both phases of an atmosphere. Appl. Occup. Environ. Hyg. 6 (10), 859-864. 1991).)
USA - ACGIH	Local name	2-Ethylhexanoic acid
USA - ACGIH	ACGIH TWA (mg/m ³)	5 mg/m ³
USA - ACGIH	Remark (ACGIH)	Teratogenic eff
cobalt(II) 2-ethylhexanoate (136-52-7)		
United Kingdom	WEL TWA (mg/m ³)	0,1 mg/m ³ Cobalt compounds (as Co); United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)

8.2. Exposure controls

Appropriate engineering controls	: Ensure good ventilation of the work station.
Hand protection	: Protective gloves
Eye protection	: Safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment
Environmental exposure controls	: Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Colour	: No data available
Odour	: No data available
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable

Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 41 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable liquid and vapour.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

paraffin, wax (8002-74-2)	
LD50 oral rat	> 5000 mg/kg (Rat; OECD 420: Acute Oral toxicity – Acute Toxic Class Method; Experimental value)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit; Experimental value; OECD 402: Acute Dermal Toxicity)
xylene (1330-20-7)	
LD50 oral rat	> 3608 mg/kg (Rat)
2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether (112-34-5)	
LD50 oral rat	5660 mg/kg (Rat)
LD50 dermal rabbit	2764 mg/kg (Rabbit; Experimental value; OECD 402: Acute Dermal Toxicity)
dimethyl sulfoxide (67-68-5)	
LD50 dermal rat	40000 mg/kg bodyweight (Rat; Experimental value)
bitumen (8052-42-4)	
LD50 oral rat	> 2000 mg/kg (Rat)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit)

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2-ethyl hexanoic acid (149-57-5)	
LD50 oral rat	2043 mg/kg bodyweight (Rat; Equivalent or similar to OECD 401; Experimental value)
LD50 dermal rat	> 2000 mg/kg bodyweight (Rat; Experimental value; OECD 402: Acute Dermal Toxicity)
cobalt(II) 2-ethylhexanoate (136-52-7)	
LD50 oral rat	3129 mg/kg bodyweight (Rat; OECD 425: Acute Oral Toxicity: Up-and-Down Procedure; Experimental value)
LD50 dermal rat	> 2000 mg/kg bodyweight (Rat; Weight of evidence; OECD 402: Acute Dermal Toxicity)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	
LD50 oral rat	> 15000 mg/kg
LD50 dermal rabbit	> 3160 mg/kg
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

paraffin, wax (8002-74-2)	
LC50 fish 2	> 100 mg/l (LL50; OECD 203: Fish, Acute Toxicity Test; 96 h; Pimephales promelas; Static system; Fresh water; Read-across)
EC50 Daphnia 1	> 1000 mg/l (LL50; 48 h; Daphnia magna)
Threshold limit algae 1	> 1000 mg/l (EL50; 72 h; Pseudokirchneriella subcapitata)
xylene (1330-20-7)	
LC50 fish 1	2,6 - 8,4 mg/l (LC50)
EC50 Daphnia 1	1,4 - 7,4 mg/l (EC50; 48 h)
2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether (112-34-5)	
LC50 fish 1	1300 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Lepomis macrochirus; Static system; Fresh water; Experimental value)
EC50 Daphnia 2	> 100 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
2-ethyl hexanoic acid (149-57-5)	
LC50 fish 1	180 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Salmo gairdneri; Static system; Fresh water; Experimental value)
EC50 Daphnia 1	85,4 mg/l (EC50; EU Method C.2; 48 h; Daphnia magna; Static system; Fresh water; Weight of evidence)
Threshold limit algae 2	49,3 mg/l (EC50; DIN 38412-9; 72 h; Desmodesmus subspicatus; Static system; Fresh water; Experimental value)
cobalt(II) 2-ethylhexanoate (136-52-7)	
LC50 fish 1	46,51 mg/l (LOEC; ASTM; 96 h; Pimephales promelas; Flow-through system; Fresh water; Read-across)
LC50 fish 2	54,1 mg/l (LC50; ASTM; 96 h; Pimephales promelas; Flow-through system; Fresh water; Read-across)
EC50 Daphnia 1	0,212 mg/l (NOEC; ASTM; 48 h; Ceriodaphnia dubia; Static system; Salt water; Read-across)
EC50 Daphnia 2	0,605 mg/l (LC50; ASTM; 48 h; Ceriodaphnia dubia; Static system; Salt water; Read-across)
Threshold limit algae 1	144 µg/l (ErC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Pseudokirchneriella subcapitata; Static system; Fresh water; Read-across)

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cobalt(II) 2-ethylhexanoate (136-52-7)	
Threshold limit algae 2	32,2 µg/l (NOEC; OECD 201: Alga, Growth Inhibition Test; 72 h; Pseudokirchneriella subcapitata; Static system; Fresh water; Read-across)

12.2. Persistence and degradability

paraffin, wax (8002-74-2)	
Persistence and degradability	Inherently biodegradable. Biodegradable in soil. Adsorbs into the soil.

xylene (1330-20-7)	
Persistence and degradability	Readily biodegradable in water.
Biochemical oxygen demand (BOD)	1,40 - 2,53 g O ₂ /g substance
Chemical oxygen demand (COD)	2,56 - 2,91 g O ₂ /g substance
ThOD	3,1 g O ₂ /g substance
BOD (% of ThOD)	0,44 - 0,816

2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether (112-34-5)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in soil. No (test)data available on mobility of the substance. Photodegradation in the air.
Biochemical oxygen demand (BOD)	0,25 g O ₂ /g substance
Chemical oxygen demand (COD)	2,08 g O ₂ /g substance
ThOD	2,173 g O ₂ /g substance
BOD (% of ThOD)	0,11

dimethyl sulfoxide (67-68-5)	
Persistence and degradability	Not readily biodegradable in water. Photolysis in the air.

bitumen (8052-42-4)	
Persistence and degradability	Not readily biodegradable in water.

2-ethyl hexanoic acid (149-57-5)	
Persistence and degradability	Readily biodegradable in water. Inherently biodegradable. Biodegradable in soil. Adsorbs into the soil.
Biochemical oxygen demand (BOD)	1,2 g O ₂ /g substance
Chemical oxygen demand (COD)	2,113 - 2,24 g O ₂ /g substance

cobalt(II) 2-ethylhexanoate (136-52-7)	
Persistence and degradability	Readily biodegradable in water. No (test)data available on mobility of the substance.

12.3. Bioaccumulative potential

paraffin, wax (8002-74-2)	
Log Pow	> 6 (Calculated)
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).

xylene (1330-20-7)	
BCF fish 1	14,1 - 24 (BCF)
Log Pow	3,15 - 3,3
Bioaccumulative potential	Low bioaccumulation potential (BCF < 500).

2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether (112-34-5)	
BCF fish 1	0,46 (BCF)
Log Pow	0,56 (Experimental value)
Bioaccumulative potential	Low bioaccumulation potential (Log Kow < 4).

dimethyl sulfoxide (67-68-5)	
BCF fish 1	< 0,4 (BCF)
Log Pow	-1,35 (Experimental value; 20 °C)
Bioaccumulative potential	Bioaccumulation: Not applicable.

bitumen (8052-42-4)	
Log Pow	> 6 (Calculated)
Bioaccumulative potential	Not bioaccumulative.

2-ethyl hexanoic acid (149-57-5)	
Log Pow	2,64 (Experimental value; 2.7; Experimental value; OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method; 25 °C)
Bioaccumulative potential	Low bioaccumulation potential (Log Kow < 4).
cobalt(II) 2-ethylhexanoate (136-52-7)	
BCF fish 1	1,2 (BCF; 131 days; Seriola quinqueradiata; Static system; Salt water; Read-across)
Bioaccumulative potential	Low bioaccumulation potential (BCF < 500).

12.4. Mobility in soil

paraffin, wax (8002-74-2)	
Surface tension	0,031 N/m (54 °C)
2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether (112-34-5)	
Surface tension	0,034 N/m (25 °C)
dimethyl sulfoxide (67-68-5)	
Surface tension	0,0435 N/m (20 °C; 10 g/l)
Log Koc	Koc, SRC PCKOCWIN v1.66; 4.41; Calculated value; log Koc; SRC PCKOCWIN v1.66; 0.64; Calculated value
2-ethyl hexanoic acid (149-57-5)	
Surface tension	0,0286 N/m (20 °C; 0.0274 N/m; 40 °C)
cobalt(II) 2-ethylhexanoate (136-52-7)	
Surface tension	0,064 N/m (20 °C; 1 g/l)

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations






13.1. Waste treatment methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information	: Flammable vapours may accumulate in the container.
Ecology - waste materials	: Avoid release to the environment.

SECTION 14: Transport information


In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
1268	1268	1268	1268	1268
14.2. UN proper shipping name				
PETROLEUM PRODUCTS, N.O.S. (CONTAINS ; Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics)	PETROLEUM PRODUCTS, N.O.S. (CONTAINS ; Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics)	Petroleum distillates, n.o.s. (CONTAINS ; Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics)	PETROLEUM PRODUCTS, N.O.S. (CONTAINS ; Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics)	PETROLEUM PRODUCTS, N.O.S. (CONTAINS ; Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics)
Transport document description				
UN 1268 PETROLEUM PRODUCTS, N.O.S. (CONTAINS ; Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics), 3, III, (D/E)	UN 1268 PETROLEUM PRODUCTS, N.O.S. (CONTAINS ; Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics), 3, III	UN 1268 Petroleum distillates, n.o.s. (CONTAINS ; Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics), 3, III	UN 1268 PETROLEUM PRODUCTS, N.O.S. (CONTAINS ; Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics), 3, III	UN 1268 PETROLEUM PRODUCTS, N.O.S. (CONTAINS ; Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics), 3, III
14.3. Transport hazard class(es)				
3	3	3	3	3

ADR	IMDG	IATA	ADN	RID
				
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available				

14.6. Special precautions for user

- Overland transport

Classification code (ADR)	: F1
Special provisions (ADR)	: 363, 664
Limited quantities (ADR)	: 5I
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4
Portable tank and bulk container special provisions (ADR)	: TP1, TP29
Tank code (ADR)	: LGBF
Vehicle for tank carriage	: FL
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Special provisions for carriage - Operation (ADR)	: S2
Hazard identification number (Kemler No.)	: 30
Orange plates	: 
Tunnel restriction code (ADR)	: D/E
EAC code	: 3YE

- Transport by sea

Special provisions (IMDG)	: 223, 363, 955
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1, TP29
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-E
Stowage category (IMDG)	: A

- Air transport

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y344
PCA limited quantity max net quantity (IATA)	: 10L

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PCA packing instructions (IATA)	: 355
PCA max net quantity (IATA)	: 60L
CAO packing instructions (IATA)	: 366
CAO max net quantity (IATA)	: 220L
Special provisions (IATA)	: A3
ERG code (IATA)	: 3L

- Inland waterway transport

Classification code (ADN)	: F1
Special provisions (ADN)	: 363
Limited quantities (ADN)	: 5 L
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 0

- Rail transport

Classification code (RID)	: F1
Special provisions (RID)	: 363
Limited quantities (RID)	: 5L
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T4
Portable tank and bulk container special provisions (RID)	: TP1, TP29
Tank codes for RID tanks (RID)	: LGBF
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	: W12
Colis express (express parcels) (RID)	: CE4
Hazard identification number (RID)	: 30

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	Nourish and Protect Wood Protective Treatment Clear and Colours - 2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether
3.a. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F	Nourish and Protect Wood Protective Treatment Clear and Colours
3.b. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	Nourish and Protect Wood Protective Treatment Clear and Colours - 2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether
40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	Nourish and Protect Wood Protective Treatment Clear and Colours

55. 2-(2-butoxyethoxy)ethanol (DEGBE)

2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

Germany

VwVwS Annex reference : Water hazard class (WGK) nwg, Non-hazardous to water (Classification according to VwVwS, Annex 4)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : paraffin, wax, bitumen are listed

SZW-lijst van mutagene stoffen : paraffin, wax, bitumen are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : xylene, 2-ethyl hexanoic acid are listed

Denmark

Classification remarks : Emergency management guidelines for the storage of flammable liquids must be followed

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Full text of H- and EUH-statements:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Repr. 2	Reproductive toxicity, Category 2
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitisation — Skin, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H226	Flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness



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H361d	Suspected of damaging the unborn child
H361f	Suspected of damaging fertility
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H412	Harmful to aquatic life with long lasting effects
EUH066	Repeated exposure may cause skin dryness or cracking

SDS EU_NSC

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.