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[Barrettine Cellulose Thinners](#)

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product form : Mixture  
Name : Cellulose Thinners  
Product code : CETHGEN

**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, Industrial use, Professional use  
Industrial/Professional use spec :

**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  
Bristol  
BS30 8TY

Tel: +44 (0) 1179 600060 Office hours only 8am–5pm Mon–Thurs. 8am–4.30pm Fri

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
IRELAND (REPUBLIC OF)	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	: +353 1 8379964
UNITED KINGDOM	National Poisons Information Service (NHS Direct)	<a href="http://www.npis.org">http://www.npis.org</a>	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]**

Flam. Liq. 2 H225  
Acute Tox. 4 (Dermal) H312  
Acute Tox. 4 (Inhalation) H332  
Skin Irrit. 2 H315  
Eye Irrit. 2 H319  
STOT SE 3 H335  
STOT SE 3 H336  
STOT RE 2 H373

Full text of H-statements: see section 16

**Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]**

F+; R12  
Xn; R20/21  
Xi; R36/37/38

Full text of R-phrases: see section 16

**Adverse physicochemical, human health and environmental effects**

No additional information available

### 2.2. Label elements

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

Hazard pictograms (CLP) :



Signal word (CLP) :

Danger

Hazardous ingredients :

2-methoxypropyl acetate, xylene, n-butyl acetate, acetone, butanone, ethyl methyl ketone, propan-2-ol, isopropyl alcohol, isopropanol

Hazard statements (CLP) :

H225 - Highly flammable liquid and vapour  
H312+H332 - Harmful in contact with skin or if inhaled  
H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H335 - May cause respiratory irritation  
H336 - May cause drowsiness or dizziness  
H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary statements (CLP) :

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
P233 - Keep container tightly closed  
P260 - Do not breathe fume, vapours, mist, spray  
P264 - Wash hands thoroughly after handling  
P271 - Use only outdoors or in a well-ventilated area  
P280 - Wear eye protection, protective clothing, protective gloves  
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower  
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P501 - Dispose of contents/container in accordance with local/national regulations

### 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 Directive 67/548/EEC
xylene	(CAS No) 1330-20-7 (EC no) 215-535-7 (EC index no) 601-022-00-9 (REACH-no) 01-2119488216-32-XXXX	15 - 50	R10 Xn; R20/21 Xi; R36/37/38 Xn; R65
acetone	(CAS No) 67-64-1 (EC no) 200-662-2 (EC index no) 606-001-00-8	15 - 30	F; R11 Xi; R36 R66 R67
n-butyl acetate	(CAS No) 123-86-4 (EC no) 204-658-1 (EC index no) 607-025-00-1	15 - 30	R10 R66 R67
Ethylbenzene	(CAS No) 100-41-4 (EC no) 202-849-4 (EC index no) 601-023-00-4	< 15	F; R11 Xn; R20
ethanol substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DE, DK, ES, FI, FR, GB, GR, HU, IE, IT, LT, LV, NL, PL, PT, RO, SE)	(CAS No) 64-17-5 (EC no) 200-578-6 (EC index no) 603-002-00-5	5 - 15	F; R11
2-methoxy-1-methylethyl acetate 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, RO, SE)	(CAS No) 108-65-6 (EC no) 203-603-9 (EC index no) 607-195-00-7 (REACH-no) 01-2119475791-29-XXXX	5 - 15	R10
4-hydroxy-4-methylpentan-2-one, diacetone alcohol	(CAS No) 123-42-2 (EC no) 204-626-7 (EC index no) 603-016-00-1	1 - 5	Xi; R36

Name	Product identifier	%	Classification according to Directive 67/548/EEC
butanone, ethyl methyl ketone 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, SE)	(CAS No) 78-93-3 (EC no) 201-159-0 (EC index no) 606-002-00-3	< 1	F; R11 Xi; R36 R66 R67
propan-2-ol, isopropyl alcohol, isopropanol substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DE, DK, ES, FI, FR, GB, GR, HU, IE, IT, LT, LV, PL, PT, RO, SE)	(CAS No) 67-63-0 (EC no) 200-661-7 (EC index no) 603-117-00-0 (REACH-no) 01-2119457558-25-XXXX	< 1	F; R11 Xi; R36 R67
2-methoxypropyl acetate substance with national workplace exposure limit(s) (AT, CZ, DE, DK, ES, PL)	(CAS No) 70657-70-4 (EC no) 274-724-2 (EC index no) 607-251-00-0	< 0,1	Repr.Cat.2; R61 Xi; R37 R10

Name	Product identifier	Specific concentration limits
xylene	(CAS No) 1330-20-7 (EC no) 215-535-7 (EC index no) 601-022-00-9 (REACH-no) 01-2119488216-32-XXXX	(C >= 12,5) Xn;R20/21
4-hydroxy-4-methylpentan-2-one, diacetone alcohol	(CAS No) 123-42-2 (EC no) 204-626-7 (EC index no) 603-016-00-1	(C >= 1) Xi;R36

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
xylene	(CAS No) 1330-20-7 (EC no) 215-535-7 (EC index no) 601-022-00-9 (REACH-no) 01-2119488216-32-XXXX	15 - 50	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
acetone	(CAS No) 67-64-1 (EC no) 200-662-2 (EC index no) 606-001-00-8	15 - 30	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
n-butyl acetate	(CAS No) 123-86-4 (EC no) 204-658-1 (EC index no) 607-025-00-1	15 - 30	Flam. Liq. 3, H226 STOT SE 3, H336
Ethylbenzene	(CAS No) 100-41-4 (EC no) 202-849-4 (EC index no) 601-023-00-4	< 15	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 STOT RE 2, H373 Asp. Tox. 1, H304
ethanol substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DE, DK, ES, FI, FR, GB, GR, HU, IE, IT, LT, LV, NL, PL, PT, RO, SE)	(CAS No) 64-17-5 (EC no) 200-578-6 (EC index no) 603-002-00-5	5 - 15	Flam. Liq. 2, H225
2-methoxy-1-methylethyl acetate 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, RO, SE)	(CAS No) 108-65-6 (EC no) 203-603-9 (EC index no) 607-195-00-7 (REACH-no) 01-2119475791-29-XXXX	5 - 15	Flam. Liq. 3, H226
4-hydroxy-4-methylpentan-2-one, diacetone alcohol	(CAS No) 123-42-2 (EC no) 204-626-7 (EC index no) 603-016-00-1	1 - 5	Flam. Liq. 3, H226 Eye Irrit. 2, H319
butanone, ethyl methyl ketone 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, SE)	(CAS No) 78-93-3 (EC no) 201-159-0 (EC index no) 606-002-00-3	< 1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
propan-2-ol, isopropyl alcohol, isopropanol substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DE, DK, ES, FI, FR, GB, GR, HU, IE, IT, LT, LV, PL, PT, RO, SE)	(CAS No) 67-63-0 (EC no) 200-661-7 (EC index no) 603-117-00-0 (REACH-no) 01-2119457558-25-XXXX	< 1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
2-methoxypropyl acetate substance with national workplace exposure limit(s) (AT, CZ, DE, DK, ES, PL)	(CAS No) 70657-70-4 (EC no) 274-724-2 (EC index no) 607-251-00-0	< 0,1	Flam. Liq. 3, H226 Repr. 1B, H360D STOT SE 3, H335

Name	Product identifier	Specific concentration limits
4-hydroxy-4-methylpentan-2-one, diacetone alcohol	(CAS No) 123-42-2 (EC no) 204-626-7 (EC index no) 603-016-00-1	(C >= 10) Eye Irrit. 2, H319

Full text of R- and H-statements: see section 16

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

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Immediately call a POISON CENTER or doctor/physician. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Gently wash with plenty of soap and water. Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Rinse eyes with water as a precaution. Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/injuries	: Causes damage to organs.
Symptoms/injuries after inhalation	: May cause respiratory irritation. May cause drowsiness or dizziness.
Symptoms/injuries after skin contact	: Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful in contact with skin. Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.

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

No additional information available

**SECTION 5: Firefighting measures****5.1. Extinguishing media**

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

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

Fire hazard	: Highly flammable liquid and vapour.
Explosion hazard	: May form flammable/explosive vapour-air mixture.

**5.3. Advice for firefighters**

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

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

General measures	: Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.
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**6.1.1. For non-emergency personnel**

Emergency procedures	: Evacuate unnecessary personnel.
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**6.1.2. For emergency responders**

Protective equipment	: Equip cleanup crew with proper protection. Avoid breathing fume, vapours.
Emergency procedures	: Ventilate area.

**6.2. Environmental precautions**

Prevent entry to sewers and public waters. Notify authorities if substance enters sewers or public waters.

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

Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
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**6.4. Reference to other sections**

See Heading 8. Exposure controls and personal protection.

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

Additional hazards when processed	: Handle empty containers with care because residual vapours are flammable.
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Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. No open flames. No smoking. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Avoid breathing fume, Vapours.

Hygiene measures : Wash Skin thoroughly after handling.

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

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof Flame proof, lighting, electrical equipment and ventilation equipment.

Storage conditions : Keep in fireproof place. Keep container tightly closed. Keep only in the original container in a cool, well ventilated place away from : Direct sunlight, Heat and ignition sources.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.

## 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

4-hydroxy-4-methylpentan-2-one, diacetone alcohol (123-42-2)		
Austria	MAK (mg/m <sup>3</sup> )	240 mg/m <sup>3</sup>
Austria	MAK (ppm)	50 ppm
Austria	Remark (AT)	H
Belgium	Limit value (mg/m <sup>3</sup> )	241 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	50 ppm
France	VME (mg/m <sup>3</sup> )	240 mg/m <sup>3</sup>
France	VME (ppm)	50 ppm
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	96 mg/m <sup>3</sup>
Germany	TRGS 900 Occupational exposure limit value (ppm)	20 ppm
Germany	Remark (TRGS 900)	DFG,H
Greece	OEL TWA (mg/m <sup>3</sup> )	240 mg/m <sup>3</sup>
Greece	OEL TWA (ppm)	50 ppm
Greece	OEL STEL (mg/m <sup>3</sup> )	360 mg/m <sup>3</sup>
Greece	OEL STEL (ppm)	75 ppm
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	50 ppm
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	50 ppm
Italy - Portugal - USA ACGIH	Remark (ACGIH)	URT & eye irr
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	240 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (ppm)	50 ppm
Spain	VLA-ED (mg/m <sup>3</sup> )	241 mg/m <sup>3</sup>
Spain	VLA-ED (ppm)	50 ppm
Switzerland	VLE (mg/m <sup>3</sup> )	192 mg/m <sup>3</sup>
Switzerland	VLE (ppm)	40 ppm
Switzerland	VME (mg/m <sup>3</sup> )	96 mg/m <sup>3</sup>
Switzerland	VME (ppm)	20 ppm
Switzerland	Remark (CH)	4x15
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	241 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	50 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	362 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	75 ppm
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (PEL) (ppm)	40 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m <sup>3</sup> )	300 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (NPK-P) (ppm)	60 ppm
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	240 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (ppm)	50 ppm
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	240 mg/m <sup>3</sup>

4-hydroxy-4-methylpentan-2-one, diacetone alcohol (123-42-2)		
Finland	HTP-arvo (8h) (ppm)	50 ppm
Finland	HTP-arvo (15 min)	360 mg/m <sup>3</sup>
Finland	HTP-arvo (15 min) (ppm)	75 ppm
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	240 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (ppm)	50 ppm
Ireland	OEL (15 min ref) (mg/m <sup>3</sup> )	360 mg/m <sup>3</sup>
Ireland	OEL (15 min ref) (ppm)	75 ppm
Lithuania	IPRV (mg/m <sup>3</sup> )	120 mg/m <sup>3</sup>
Lithuania	IPRV (ppm)	25 ppm
Lithuania	TPRV (mg/m <sup>3</sup> )	240 mg/m <sup>3</sup>
Lithuania	TPRV (ppm)	50 ppm
Norway	Grenseverdier (AN) (mg/m <sup>3</sup> )	120 mg/m <sup>3</sup>
Norway	Grenseverdier (AN) (ppm)	25 ppm
Poland	NDS (mg/m <sup>3</sup> )	240 mg/m <sup>3</sup>
Romania	OEL TWA (mg/m <sup>3</sup> )	150 mg/m <sup>3</sup>
Romania	OEL TWA (ppm)	32 ppm
Romania	OEL STEL (mg/m <sup>3</sup> )	250 mg/m <sup>3</sup>
Romania	OEL STEL (ppm)	53 ppm
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	120 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (ppm)	25 ppm
Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> )	240 mg/m <sup>3</sup>
Sweden	kortidsvärde (KTV) (ppm)	50 ppm
Australia	TWA (mg/m <sup>3</sup> )	238 mg/m <sup>3</sup>
Australia	TWA (ppm)	50 ppm
Portugal	OEL TWA (ppm)	50 ppm
2-methoxy-1-methylethyl acetate (108-65-6)		
EU	IOELV TWA (mg/m <sup>3</sup> )	275 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	50 ppm
EU	IOELV STEL (mg/m <sup>3</sup> )	550 mg/m <sup>3</sup>
EU	IOELV STEL (ppm)	100 ppm
EU	Notes	Skin
Austria	MAK (mg/m <sup>3</sup> )	275 mg/m <sup>3</sup>
Austria	MAK (ppm)	50 ppm
Austria	MAK Short time value (mg/m <sup>3</sup> )	550 mg/m <sup>3</sup>
Austria	MAK Short time value (ppm)	100 ppm
Austria	Remark (AT)	H
Belgium	Limit value (mg/m <sup>3</sup> )	275 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	50 ppm
Belgium	Short time value (mg/m <sup>3</sup> )	550 mg/m <sup>3</sup>
Belgium	Short time value (ppm)	100 ppm
Belgium	Remark (BE)	D
Bulgaria	OEL TWA (mg/m <sup>3</sup> )	275 mg/m <sup>3</sup>
Bulgaria	OEL STEL (mg/m <sup>3</sup> )	550 mg/m <sup>3</sup>
France	VLE (mg/m <sup>3</sup> )	550 mg/m <sup>3</sup>
France	VLE (ppm)	100 ppm
France	VME (mg/m <sup>3</sup> )	275 mg/m <sup>3</sup>
France	VME (ppm)	50 ppm
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	270 mg/m <sup>3</sup>
Germany	TRGS 900 Occupational exposure limit value (ppm)	50 ppm
Germany	Remark (TRGS 900)	DFG,EU,Y
Greece	OEL TWA (mg/m <sup>3</sup> )	275 mg/m <sup>3</sup>
Greece	OEL TWA (ppm)	50 ppm

2-methoxy-1-methylethyl acetate (108-65-6)		
Greece	OEL STEL (mg/m <sup>3</sup> )	550 mg/m <sup>3</sup>
Greece	OEL STEL (ppm)	100 ppm
Italy	OEL TWA (mg/m <sup>3</sup> )	275 mg/m <sup>3</sup>
Italy	OEL TWA (ppm)	50 ppm
Italy	OEL STEL (mg/m <sup>3</sup> )	550 mg/m <sup>3</sup>
Italy	OEL STEL (ppm)	100 ppm
Latvia	OEL TWA (mg/m <sup>3</sup> )	275 mg/m <sup>3</sup>
Latvia	OEL TWA (ppm)	50 ppm
Spain	VLA-ED (mg/m <sup>3</sup> )	275 mg/m <sup>3</sup> 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.), 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 trasposición 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.)
Spain	VLA-ED (ppm)	50 ppm 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.), 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 trasposición 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.)
Spain	VLA-EC (mg/m <sup>3</sup> )	550 mg/m <sup>3</sup> 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.), 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 trasposición 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.)



2-methoxy-1-methylethyl acetate (108-65-6)		
Spain	VLA-EC (ppm)	100 ppm 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.), 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 trasposición 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.)
Switzerland	VLE (mg/m <sup>3</sup> )	275 mg/m <sup>3</sup>
Switzerland	VLE (ppm)	50 ppm
Switzerland	VME (mg/m <sup>3</sup> )	275 mg/m <sup>3</sup>
Switzerland	VME (ppm)	50 ppm
Switzerland	Remark (CH)	15 min
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	550 mg/m <sup>3</sup>
Netherlands	Grenswaarde TGG 8H (ppm)	1-methoxy-2-propylacetaat, 100 ppm; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	274 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	50 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	548 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	100 ppm
United Kingdom	Remark (WEL)	Sk
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	270 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (PEL) (ppm)	50 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m <sup>3</sup> )	550 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (NPK-P) (ppm)	101,8 ppm
Czech Republic	Remark (CZ)	D
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	275 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (ppm)	50 ppm
Denmark	Anmærkninger (DK)	EH
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	270 mg/m <sup>3</sup>
Finland	HTP-arvo (8h) (ppm)	50 ppm
Finland	HTP-arvo (15 min)	550 mg/m <sup>3</sup>
Finland	HTP-arvo (15 min) (ppm)	100 ppm
Hungary	AK-érték	275 mg/m <sup>3</sup>
Hungary	CK-érték	550 mg/m <sup>3</sup>
Hungary	Megjegyzések (HU)	EU1
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	275 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (ppm)	50 ppm
Ireland	OEL (15 min ref) (mg/m <sup>3</sup> )	550 mg/m <sup>3</sup>
Ireland	OEL (15 min ref) (ppm)	100 ppm
Ireland	Notes (IE)	Sk, IOELV
Lithuania	IPRV (mg/m <sup>3</sup> )	250 mg/m <sup>3</sup>
Lithuania	IPRV (ppm)	50 ppm
Lithuania	TPRV (mg/m <sup>3</sup> )	400 mg/m <sup>3</sup>

2-methoxy-1-methylethyl acetate (108-65-6)		
Lithuania	TPRV (ppm)	75 ppm
Lithuania	Remark (LT)	O
Malta	OEL TWA (mg/m <sup>3</sup> )	275 mg/m <sup>3</sup>
Malta	OEL TWA (ppm)	50 ppm
Malta	OEL STEL (mg/m <sup>3</sup> )	550 mg/m <sup>3</sup>
Malta	OEL STEL (ppm)	100 ppm
Norway	Grenseverdier (AN) (mg/m <sup>3</sup> )	270 mg/m <sup>3</sup>
Norway	Grenseverdier (AN) (ppm)	50 ppm
Norway	Merknader (NO)	H
Poland	NDS (mg/m <sup>3</sup> )	260 mg/m <sup>3</sup>
Poland	NDSch (mg/m <sup>3</sup> )	520 mg/m <sup>3</sup>
Romania	OEL TWA (mg/m <sup>3</sup> )	275 mg/m <sup>3</sup>
Romania	OEL TWA (ppm)	50 ppm
Romania	OEL STEL (mg/m <sup>3</sup> )	550 mg/m <sup>3</sup>
Romania	OEL STEL (ppm)	100 ppm
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	250 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (ppm)	50 ppm
Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> )	400 mg/m <sup>3</sup>
Sweden	kortidsvärde (KTV) (ppm)	75 ppm
Australia	TWA (mg/m <sup>3</sup> )	274 mg/m <sup>3</sup>
Australia	TWA (ppm)	50 ppm
Australia	STEL (mg/m <sup>3</sup> )	548 mg/m <sup>3</sup>
Australia	STEL (ppm)	100 ppm
2-methoxypropyl acetate (70657-70-4)		
Austria	MAK (mg/m <sup>3</sup> )	110 mg/m <sup>3</sup>
Austria	MAK (ppm)	20 ppm
Austria	MAK Short time value (mg/m <sup>3</sup> )	440 mg/m <sup>3</sup>
Austria	MAK Short time value (ppm)	80 ppm
Austria	Remark (AT)	H
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	28 mg/m <sup>3</sup>
Germany	TRGS 900 Occupational exposure limit value (ppm)	5 ppm
Germany	Remark (TRGS 900)	DFG,H,Z
Spain	VLA-ED (mg/m <sup>3</sup> )	28 mg/m <sup>3</sup> TR1A (Sustancias de las que se sabe o se supone que son tóxicas para la reproducción humana cuando las pruebas utilizadas para la clasificación procedan principalmente de datos en animales), 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.)

2-methoxypropyl acetate (70657-70-4)		
Spain	VLA-ED (ppm)	5 ppm TR1A (Sustancias de las que se sabe o se supone que son tóxicos para la reproducción humana.cuando las pruebas utilizadas para la clasificación procedan principalmente de datos en animales), 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 aplicarsea todos los usos o sólo a usos concretos. El anexo XVII del Reglamento REACH contiene la lista de todas las sustancias restringidasy especifica los usos que se han restringido.)
Spain	VLA-EC (mg/m <sup>3</sup> )	220 mg/m <sup>3</sup> TR1A (Sustancias de las que se sabe o se supone que son tóxicos para la reproducción humana.cuando las pruebas utilizadas para la clasificación procedan principalmente de datos en animales), 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 aplicarsea todos los usos o sólo a usos concretos. El anexo XVII del Reglamento REACH contiene la lista de todas las sustancias restringidasy especifica los usos que se han restringido.)
Spain	VLA-EC (ppm)	40 ppm TR1A (Sustancias de las que se sabe o se supone que son tóxicos para la reproducción humana.cuando las pruebas utilizadas para la clasificación procedan principalmente de datos en animales), 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 aplicarsea todos los usos o sólo a usos concretos. El anexo XVII del Reglamento REACH contiene la lista de todas las sustancias restringidasy especifica los usos que se han restringido.)
Switzerland	VLE (mg/m <sup>3</sup> )	224 mg/m <sup>3</sup>
Switzerland	VLE (ppm)	40 ppm
Switzerland	VME (mg/m <sup>3</sup> )	28 mg/m <sup>3</sup>
Switzerland	VME (ppm)	5 ppm
Switzerland	Remark (CH)	4x15
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	270 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (PEL) (ppm)	50 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m <sup>3</sup> )	550 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (NPK-P) (ppm)	101,8 ppm
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	110 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (ppm)	20 ppm
Norway	Grenseverdier (AN) (mg/m <sup>3</sup> )	110 mg/m <sup>3</sup>
Norway	Grenseverdier (AN) (ppm)	20 ppm
Norway	Merknader (NO)	H R
Poland	NDS (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>

2-methoxypropyl acetate (70657-70-4)		
Poland	NDSCh (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
xylene (1330-20-7)		
EU	IOELV TWA (mg/m <sup>3</sup> )	221 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	50 ppm
EU	IOELV STEL (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
EU	IOELV STEL (ppm)	100 ppm
EU	Notes	Skin
Austria	MAK (mg/m <sup>3</sup> )	221 mg/m <sup>3</sup>
Austria	MAK (ppm)	50 ppm
Austria	MAK Short time value (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
Austria	MAK Short time value (ppm)	100 ppm
Austria	Remark (AT)	H
Belgium	Limit value (mg/m <sup>3</sup> )	221 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	50 ppm
Belgium	Short time value (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
Belgium	Short time value (ppm)	100 ppm
Belgium	Remark (BE)	D
Bulgaria	OEL TWA (mg/m <sup>3</sup> )	221 mg/m <sup>3</sup>
Bulgaria	OEL STEL (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
France	VLE (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
France	VLE (ppm)	100 ppm
France	VME (mg/m <sup>3</sup> )	221 mg/m <sup>3</sup>
France	VME (ppm)	50 ppm
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	440 mg/m <sup>3</sup>
Germany	TRGS 900 Occupational exposure limit value (ppm)	100 ppm
Germany	Remark (TRGS 900)	DFG,EU,H
Greece	OEL TWA (mg/m <sup>3</sup> )	435 mg/m <sup>3</sup>
Greece	OEL TWA (ppm)	100 ppm
Greece	OEL STEL (mg/m <sup>3</sup> )	650 mg/m <sup>3</sup>
Greece	OEL STEL (ppm)	150 ppm
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	100 ppm
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	150 ppm
Italy - Portugal - USA ACGIH	Remark (ACGIH)	URT & eye irr; CNS impair
Italy	OEL TWA (mg/m <sup>3</sup> )	221 mg/m <sup>3</sup>
Italy	OEL TWA (ppm)	50 ppm
Italy	OEL STEL (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
Italy	OEL STEL (ppm)	100 ppm
Latvia	OEL TWA (mg/m <sup>3</sup> )	221 mg/m <sup>3</sup>
Latvia	OEL TWA (ppm)	50 ppm
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	435 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (ppm)	100 ppm

xylene (1330-20-7)		
Spain	VLA-ED (mg/m <sup>3</sup> )	221 mg/m <sup>3</sup> 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 trasposición 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.)
Spain	VLA-ED (ppm)	50 ppm 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 trasposición 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.)
Spain	VLA-EC (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup> 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 trasposición 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.)

### xylene (1330-20-7)

Spain	VLA-EC (ppm)	100 ppm 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 trasposición 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.)
Switzerland	VLE (mg/m <sup>3</sup> )	870 mg/m <sup>3</sup>
Switzerland	VLE (ppm)	200 ppm
Switzerland	VME (mg/m <sup>3</sup> )	435 mg/m <sup>3</sup>
Switzerland	VME (ppm)	100 ppm
Switzerland	Remark (CH)	4x15
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	210 mg/m <sup>3</sup>
Netherlands	Grenswaarde TGG 8H (ppm)	Xyleen (o-,m- en p-isomeren), 48 ppm; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value
Netherlands	Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
Netherlands	Grenswaarde TGG 15MIN (ppm)	Xyleen (o-,m- en p-isomeren), 100 ppm; Netherlands; Short time value; Public occupational exposure limit value
Netherlands	Remark (MAC)	H
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	220 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	50 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	441 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	100 ppm
United Kingdom	Remark (WEL)	Sk, BMGV
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (PEL) (ppm)	50 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m <sup>3</sup> )	400 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (NPK-P) (ppm)	90 ppm
Czech Republic	Remark (CZ)	D
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	109 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (ppm)	25 ppm
Denmark	Anmærkninger (DK)	EH
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	220 mg/m <sup>3</sup>
Finland	HTP-arvo (8h) (ppm)	50 ppm
Finland	HTP-arvo (15 min)	440 mg/m <sup>3</sup>
Finland	HTP-arvo (15 min) (ppm)	100 ppm
Hungary	AK-érték	221 mg/m <sup>3</sup>
Hungary	CK-érték	442 mg/m <sup>3</sup>
Hungary	Megjegyzések (HU)	b; EU1
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	221 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (ppm)	50 ppm
Ireland	OEL (15 min ref) (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>

<b>xylene (1330-20-7)</b>		
Ireland	OEL (15 min ref) (ppm)	100 ppm
Ireland	Notes (IE)	Sk, IOELV
Lithuania	IPRV (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
Lithuania	IPRV (ppm)	50 ppm
Lithuania	TPRV (mg/m <sup>3</sup> )	450 mg/m <sup>3</sup>
Lithuania	TPRV (ppm)	100 ppm
Lithuania	Remark (LT)	O
Malta	OEL TWA (mg/m <sup>3</sup> )	221 mg/m <sup>3</sup>
Malta	OEL TWA (ppm)	50 ppm
Malta	OEL STEL (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
Malta	OEL STEL (ppm)	100 ppm
Norway	Grenseverdier (AN) (mg/m <sup>3</sup> )	108 mg/m <sup>3</sup>
Norway	Grenseverdier (AN) (ppm)	25 ppm
Norway	Merknader (NO)	H
Poland	NDS (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Romania	OEL TWA (mg/m <sup>3</sup> )	221 mg/m <sup>3</sup>
Romania	OEL TWA (ppm)	50 ppm
Romania	OEL STEL (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
Romania	OEL STEL (ppm)	100 ppm
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (ppm)	50 ppm
Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> )	450 mg/m <sup>3</sup>
Sweden	kortidsvärde (KTV) (ppm)	100 ppm
Portugal	OEL TWA (ppm)	100 ppm
Portugal	OEL STEL (ppm)	150 ppm
<b>Ethylbenzene (100-41-4)</b>		
EU	IOELV TWA (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	100 ppm
EU	IOELV STEL (mg/m <sup>3</sup> )	884 mg/m <sup>3</sup>
EU	IOELV STEL (ppm)	200 ppm
EU	Notes	Skin
Austria	MAK (mg/m <sup>3</sup> )	440 mg/m <sup>3</sup>
Austria	MAK (ppm)	100 ppm
Austria	MAK Short time value (mg/m <sup>3</sup> )	880 mg/m <sup>3</sup>
Austria	MAK Short time value (ppm)	200 ppm
Austria	Remark (AT)	H
Belgium	Limit value (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	100 ppm
Belgium	Short time value (mg/m <sup>3</sup> )	551 mg/m <sup>3</sup>
Belgium	Short time value (ppm)	125 ppm
Belgium	Remark (BE)	D
Bulgaria	OEL TWA (mg/m <sup>3</sup> )	435 mg/m <sup>3</sup>
Bulgaria	OEL STEL (mg/m <sup>3</sup> )	545 mg/m <sup>3</sup>
France	VLE (mg/m <sup>3</sup> )	Ethylbenzène,442 mg/m <sup>3</sup> ; France; Short time value; VRC: Valeur réglementaire contraignante
France	VLE (ppm)	Ethylbenzène,100 ppm; France; Short time value; VRC: Valeur réglementaire contraignante
France	VME (mg/m <sup>3</sup> )	Ethylbenzène,88.4 mg/m <sup>3</sup> ; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante
France	VME (ppm)	Ethylbenzène,20 ppm; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	88 mg/m <sup>3</sup>

Ethylbenzene (100-41-4)		
Germany	TRGS 900 Occupational exposure limit value (ppm)	20 ppm
Germany	Remark (TRGS 900)	EU,H,13
Greece	OEL TWA (mg/m <sup>3</sup> )	435 mg/m <sup>3</sup>
Greece	OEL TWA (ppm)	100 ppm
Greece	OEL STEL (mg/m <sup>3</sup> )	545 mg/m <sup>3</sup>
Greece	OEL STEL (ppm)	125 ppm
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	20 ppm
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	20 ppm
Italy - Portugal - USA ACGIH	Remark (ACGIH)	URT irr; kidney dam (nephropathy)
Italy	OEL TWA (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
Italy	OEL TWA (ppm)	100 ppm
Italy	OEL STEL (mg/m <sup>3</sup> )	884 mg/m <sup>3</sup>
Italy	OEL STEL (ppm)	200 ppm
Latvia	OEL TWA (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
Latvia	OEL TWA (ppm)	100 ppm
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	435 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (ppm)	100 ppm
Spain	VLA-ED (mg/m <sup>3</sup> )	441 mg/m <sup>3</sup> 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 trasposición 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.)
Spain	VLA-ED (ppm)	100 ppm 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 trasposición 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.)



Ethylbenzene (100-41-4)		
Spain	VLA-EC (mg/m <sup>3</sup> )	884 mg/m <sup>3</sup> 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 trasposición 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.)
Spain	VLA-EC (ppm)	200 ppm 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 trasposición 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.)
Switzerland	VLE (mg/m <sup>3</sup> )	435 mg/m <sup>3</sup>
Switzerland	VLE (ppm)	100 ppm
Switzerland	VME (mg/m <sup>3</sup> )	435 mg/m <sup>3</sup>
Switzerland	VME (ppm)	100 ppm
Switzerland	Remark (CH)	15 min
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	215 mg/m <sup>3</sup>
Netherlands	Grenswaarde TGG 8H (ppm)	Ethylbenzeen, 49 ppm; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value
Netherlands	Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	430 mg/m <sup>3</sup>
Netherlands	Grenswaarde TGG 15MIN (ppm)	Ethylbenzeen, 97 ppm; Netherlands; Short time value; Public occupational exposure limit value
Netherlands	Remark (MAC)	H
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	441 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	100 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	552 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	125 ppm
United Kingdom	Remark (WEL)	Sk
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (PEL) (ppm)	50 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (NPK-P) (ppm)	120 ppm
Czech Republic	Remark (CZ)	D
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	217 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (ppm)	50 ppm

<b>Ethylbenzene (100-41-4)</b>		
Denmark	Anmærkninger (DK)	EK
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	220 mg/m <sup>3</sup>
Finland	HTP-arvo (8h) (ppm)	50 ppm
Finland	HTP-arvo (15 min)	880 mg/m <sup>3</sup>
Finland	HTP-arvo (15 min) (ppm)	200 ppm
Hungary	AK-érték	442 mg/m <sup>3</sup>
Hungary	CK-érték	884 mg/m <sup>3</sup>
Hungary	Megjegyzések (HU)	b, i, l.
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (ppm)	100 ppm
Ireland	OEL (15 min ref) (mg/m <sup>3</sup> )	884 mg/m <sup>3</sup>
Ireland	OEL (15 min ref) (ppm)	200 ppm
Ireland	Notes (IE)	Sk, IOELV
Lithuania	IPRV (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
Lithuania	IPRV (ppm)	100 ppm
Lithuania	TPRV (mg/m <sup>3</sup> )	884 mg/m <sup>3</sup>
Lithuania	TPRV (ppm)	200 ppm
Lithuania	Remark (LT)	O
Malta	OEL TWA (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
Malta	OEL TWA (ppm)	100 ppm
Malta	OEL STEL (mg/m <sup>3</sup> )	884 mg/m <sup>3</sup>
Malta	OEL STEL (ppm)	200 ppm
Norway	Grenseverdier (AN) (mg/m <sup>3</sup> )	20 mg/m <sup>3</sup>
Norway	Grenseverdier (AN) (ppm)	5 ppm
Norway	Merknader (NO)	H K
Poland	NDS (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
Poland	NDSch (mg/m <sup>3</sup> )	400 mg/m <sup>3</sup>
Romania	OEL TWA (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
Romania	OEL TWA (ppm)	100 ppm
Romania	OEL STEL (mg/m <sup>3</sup> )	884 mg/m <sup>3</sup>
Romania	OEL STEL (ppm)	200 ppm
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (ppm)	50 ppm
Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> )	450 mg/m <sup>3</sup>
Sweden	kortidsvärde (KTV) (ppm)	100 ppm
Australia	TWA (mg/m <sup>3</sup> )	434 mg/m <sup>3</sup>
Australia	TWA (ppm)	100 ppm
Australia	STEL (mg/m <sup>3</sup> )	543 mg/m <sup>3</sup>
Australia	STEL (ppm)	125 ppm
Portugal	OEL TWA (ppm)	100 ppm
Portugal	OEL STEL (ppm)	125 ppm
<b>n-butyl acetate (123-86-4)</b>		
Belgium	Limit value (mg/m <sup>3</sup> )	723 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	150 ppm
Belgium	Short time value (mg/m <sup>3</sup> )	964 mg/m <sup>3</sup>
Belgium	Short time value (ppm)	200 ppm
Bulgaria	OEL TWA (mg/m <sup>3</sup> )	710 mg/m <sup>3</sup>
Bulgaria	OEL STEL (mg/m <sup>3</sup> )	950 mg/m <sup>3</sup>
France	VLE (mg/m <sup>3</sup> )	940 mg/m <sup>3</sup>

n-butyl acetate (123-86-4)		
France	VLE (ppm)	200 ppm
France	VME (mg/m <sup>3</sup> )	710 mg/m <sup>3</sup>
France	VME (ppm)	150 ppm
Greece	OEL TWA (mg/m <sup>3</sup> )	710 mg/m <sup>3</sup>
Greece	OEL TWA (ppm)	150 ppm
Greece	OEL STEL (mg/m <sup>3</sup> )	950 mg/m <sup>3</sup>
Greece	OEL STEL (ppm)	200 ppm
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	150 ppm
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	200 ppm
Italy - Portugal - USA ACGIH	Remark (ACGIH)	Eye & URT irr
Latvia	OEL TWA (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	710 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (ppm)	150 ppm
Spain	VLA-ED (mg/m <sup>3</sup> )	724 mg/m <sup>3</sup>
Spain	VLA-ED (ppm)	150 ppm
Spain	VLA-EC (mg/m <sup>3</sup> )	965 mg/m <sup>3</sup>
Spain	VLA-EC (ppm)	200 ppm
Switzerland	VLE (mg/m <sup>3</sup> )	960 mg/m <sup>3</sup>
Switzerland	VLE (ppm)	200 ppm
Switzerland	VME (mg/m <sup>3</sup> )	480 mg/m <sup>3</sup>
Switzerland	VME (ppm)	100 ppm
Switzerland	Remark (CH)	4x15
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	724 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	150 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	966 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	200 ppm
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	950 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (PEL) (ppm)	200,5 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m <sup>3</sup> )	1200 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (NPK-P) (ppm)	253 ppm
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	710 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (ppm)	150 ppm
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	720 mg/m <sup>3</sup>
Finland	HTP-arvo (8h) (ppm)	150 ppm
Finland	HTP-arvo (15 min)	960 mg/m <sup>3</sup>
Finland	HTP-arvo (15 min) (ppm)	200 ppm
Hungary	AK-érték	950 mg/m <sup>3</sup>
Hungary	CK-érték	950 mg/m <sup>3</sup>
Hungary	Megjegyzések (HU)	i, sz; l.
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	710 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (ppm)	150 ppm
Ireland	OEL (15 min ref) (mg/m <sup>3</sup> )	950 mg/m <sup>3</sup>
Ireland	OEL (15 min ref) (ppm)	200 ppm
Poland	NDS (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
Poland	NDSch (mg/m <sup>3</sup> )	950 mg/m <sup>3</sup>
Romania	OEL TWA (mg/m <sup>3</sup> )	715 mg/m <sup>3</sup>
Romania	OEL TWA (ppm)	150 ppm
Romania	OEL STEL (mg/m <sup>3</sup> )	950 mg/m <sup>3</sup>
Romania	OEL STEL (ppm)	200 ppm
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>

n-butyl acetate (123-86-4)		
Sweden	nivågränsvärde (NVG) (ppm)	100 ppm
Australia	TWA (mg/m <sup>3</sup> )	713 mg/m <sup>3</sup>
Australia	TWA (ppm)	150 ppm
Australia	STEL (mg/m <sup>3</sup> )	950 mg/m <sup>3</sup>
Australia	STEL (ppm)	200 ppm
Portugal	OEL TWA (ppm)	150 ppm
Portugal	OEL STEL (ppm)	200 ppm
ethanol (64-17-5)		
Austria	MAK (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
Austria	MAK (ppm)	1000 ppm
Austria	MAK Short time value (mg/m <sup>3</sup> )	3800 mg/m <sup>3</sup>
Austria	MAK Short time value (ppm)	2000 ppm
Belgium	Limit value (mg/m <sup>3</sup> )	1907 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	1000 ppm
Bulgaria	OEL TWA (mg/m <sup>3</sup> )	1000 mg/m <sup>3</sup>
France	VLE (mg/m <sup>3</sup> )	9500 mg/m <sup>3</sup>
France	VLE (ppm)	5000 ppm
France	VME (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
France	VME (ppm)	1000 ppm
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	960 mg/m <sup>3</sup>
Germany	TRGS 900 Occupational exposure limit value (ppm)	500 ppm
Germany	Remark (TRGS 900)	DFG,Y
Greece	OEL TWA (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
Greece	OEL TWA (ppm)	1000 ppm
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	1000 ppm
Italy - Portugal - USA ACGIH	Remark (ACGIH)	URT irr
Latvia	OEL TWA (mg/m <sup>3</sup> )	1000 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (ppm)	1000 ppm
Spain	VLA-EC (mg/m <sup>3</sup> )	1,910 mg/m <sup>3</sup> s (Esta sustancia tiene prohibida total o parcialmente su comercialización y uso como fitosanitario y/o como biocida. Para unainformación detallada acerca de las prohibiciones consúltese: Base de datos de productos biocidas: <a href="http://www.msssi.gob.es/ciudadanos/saludAmbLaboral/prodQuimicos/sustPreparatorias/biocidas/docs/InclusionesES16.pdf">http://www.msssi.gob.es/ciudadanos/saludAmbLaboral/prodQuimicos/sustPreparatorias/biocidas/docs/InclusionesES16.pdf</a> Base de datos de productos fitosanitarios: <a href="http://www.magrama.gob.es/agricultura/pags/fitos/registro/fichas/pdf/Lista_sa.pdf">http://www.magrama.gob.es/agricultura/pags/fitos/registro/fichas/pdf/Lista_sa.pdf</a> )
Spain	VLA-EC (ppm)	1,000 ppm s (Esta sustancia tiene prohibida total o parcialmente su comercialización y uso como fitosanitario y/o como biocida. Para unainformación detallada acerca de las prohibiciones consúltese: Base de datos de productos biocidas: <a href="http://www.msssi.gob.es/ciudadanos/saludAmbLaboral/prodQuimicos/sustPreparatorias/biocidas/docs/InclusionesES16.pdf">http://www.msssi.gob.es/ciudadanos/saludAmbLaboral/prodQuimicos/sustPreparatorias/biocidas/docs/InclusionesES16.pdf</a> Base de datos de productos fitosanitarios: <a href="http://www.magrama.gob.es/agricultura/pags/fitos/registro/fichas/pdf/Lista_sa.pdf">http://www.magrama.gob.es/agricultura/pags/fitos/registro/fichas/pdf/Lista_sa.pdf</a> )
Switzerland	VLE (mg/m <sup>3</sup> )	1920 mg/m <sup>3</sup>
Switzerland	VLE (ppm)	1000 ppm
Switzerland	VME (mg/m <sup>3</sup> )	960 mg/m <sup>3</sup>
Switzerland	VME (ppm)	500 ppm
Switzerland	Remark (CH)	4x15
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	260 mg/m <sup>3</sup>
Netherlands	Grenswaarde TGG 8H (ppm)	136 ppm (Ethanol; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)

ethanol (64-17-5)		
Netherlands	Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
Netherlands	Grenswaarde TGG 15MIN (ppm)	992 ppm (Ethanol; Netherlands; Short time value; Public occupational exposure limit value)
Netherlands	Remark (MAC)	H
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	1920 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	1000 ppm
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	1000 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (PEL) (ppm)	530 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m <sup>3</sup> )	3000 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (NPK-P) (ppm)	1600 ppm
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (ppm)	1000 ppm
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
Finland	HTP-arvo (8h) (ppm)	1000 ppm
Finland	HTP-arvo (15 min)	2500 mg/m <sup>3</sup>
Finland	HTP-arvo (15 min) (ppm)	1300 ppm
Hungary	AK-érték	1900 mg/m <sup>3</sup>
Hungary	CK-érték	7600 mg/m <sup>3</sup>
Hungary	Megjegyzések (HU)	IV.
Ireland	OEL (15 min ref) (ppm)	1000 ppm
Lithuania	IPRV (mg/m <sup>3</sup> )	1000 mg/m <sup>3</sup>
Lithuania	IPRV (ppm)	500 ppm
Lithuania	TPRV (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
Lithuania	TPRV (ppm)	1000 ppm
Norway	Grenseverdier (AN) (mg/m <sup>3</sup> )	950 mg/m <sup>3</sup>
Norway	Grenseverdier (AN) (ppm)	500 ppm
Poland	NDS (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
Romania	OEL TWA (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
Romania	OEL TWA (ppm)	1000 ppm
Romania	OEL STEL (mg/m <sup>3</sup> )	9500 mg/m <sup>3</sup>
Romania	OEL STEL (ppm)	5000 ppm
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	1000 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (ppm)	500 ppm
Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
Sweden	kortidsvärde (KTV) (ppm)	1000 ppm
Australia	TWA (mg/m <sup>3</sup> )	1880 mg/m <sup>3</sup>
Australia	TWA (ppm)	1000 ppm
Portugal	OEL TWA (ppm)	1000 ppm
propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)		
Austria	MAK (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>
Austria	MAK (ppm)	200 ppm
Austria	MAK Short time value (mg/m <sup>3</sup> )	2000 mg/m <sup>3</sup>
Austria	MAK Short time value (ppm)	800 ppm
Belgium	Limit value (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	200 ppm
Belgium	Short time value (mg/m <sup>3</sup> )	1000 mg/m <sup>3</sup>
Belgium	Short time value (ppm)	400 ppm
Bulgaria	OEL TWA (mg/m <sup>3</sup> )	980 mg/m <sup>3</sup>
Bulgaria	OEL STEL (mg/m <sup>3</sup> )	1225 mg/m <sup>3</sup>
France	VLE (mg/m <sup>3</sup> )	980 mg/m <sup>3</sup>

propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)		
France	VLE (ppm)	400 ppm
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>
Germany	TRGS 900 Occupational exposure limit value (ppm)	200 ppm
Germany	Remark (TRGS 900)	DFG,Y
Greece	OEL TWA (mg/m <sup>3</sup> )	980 mg/m <sup>3</sup>
Greece	OEL TWA (ppm)	400 ppm
Greece	OEL STEL (mg/m <sup>3</sup> )	1225 mg/m <sup>3</sup>
Greece	OEL STEL (ppm)	500 ppm
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	200 ppm
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	400 ppm
Italy - Portugal - USA ACGIH	Remark (ACGIH)	Eye & URT irr; CNS impair
Latvia	OEL TWA (mg/m <sup>3</sup> )	350 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	980 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (ppm)	400 ppm
Spain	VLA-ED (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup> VLB (Agente químico que tiene Valor Límite Biológico específico en este documento.) , s (Esta sustancia tiene prohibida total o parcialmente su comercialización y uso como fitosanitario y/o como biocida. Para unainformación detallada acerca de las prohibiciones consúltese: Base de datos de productos biocidas: <a href="http://www.msssi.gob.es/ciudadanos/saludAmbLaboral/prodQuimicos/sustPreparatorias/biocidas/docs/Inclusi onesES16.pdf">http://www.msssi.gob.es/ciudadanos/saludAmbLaboral/prodQuimicos/sustPreparatorias/biocidas/docs/Inclusi onesES16.pdf</a> Base de datos de productos fitosanitarios: <a href="http://www.magrama.gob.es/agricultura/pags/fitos/regi stro/fichas/pdf/Lista_sa.pdf">http://www.magrama.gob.es/agricultura/pags/fitos/regi stro/fichas/pdf/Lista_sa.pdf</a> )
Spain	VLA-ED (ppm)	200 ppm VLB (Agente químico que tiene Valor Límite Biológico específico en este documento.) , s (Esta sustancia tiene prohibida total o parcialmente su comercialización y uso como fitosanitario y/o como biocida. Para unainformación detallada acerca de las prohibiciones consúltese: Base de datos de productos biocidas: <a href="http://www.msssi.gob.es/ciudadanos/saludAmbLaboral/prodQuimicos/sustPreparatorias/biocidas/docs/Inclusi onesES16.pdf">http://www.msssi.gob.es/ciudadanos/saludAmbLaboral/prodQuimicos/sustPreparatorias/biocidas/docs/Inclusi onesES16.pdf</a> Base de datos de productos fitosanitarios: <a href="http://www.magrama.gob.es/agricultura/pags/fitos/regi stro/fichas/pdf/Lista_sa.pdf">http://www.magrama.gob.es/agricultura/pags/fitos/regi stro/fichas/pdf/Lista_sa.pdf</a> )
Spain	VLA-EC (mg/m <sup>3</sup> )	1,000 mg/m <sup>3</sup> VLB (Agente químico que tiene Valor Límite Biológico específico en este documento.) , s (Esta sustancia tiene prohibida total o parcialmente su comercialización y uso como fitosanitario y/o como biocida. Para unainformación detallada acerca de las prohibiciones consúltese: Base de datos de productos biocidas: <a href="http://www.msssi.gob.es/ciudadanos/saludAmbLaboral/prodQuimicos/sustPreparatorias/biocidas/docs/Inclusi onesES16.pdf">http://www.msssi.gob.es/ciudadanos/saludAmbLaboral/prodQuimicos/sustPreparatorias/biocidas/docs/Inclusi onesES16.pdf</a> Base de datos de productos fitosanitarios: <a href="http://www.magrama.gob.es/agricultura/pags/fitos/regi stro/fichas/pdf/Lista_sa.pdf">http://www.magrama.gob.es/agricultura/pags/fitos/regi stro/fichas/pdf/Lista_sa.pdf</a> )
Spain	VLA-EC (ppm)	400 ppm VLB (Agente químico que tiene Valor Límite Biológico específico en este documento.) , s (Esta sustancia tiene prohibida total o parcialmente su comercialización y uso como fitosanitario y/o como biocida. Para unainformación detallada acerca de las prohibiciones consúltese: Base de datos de productos biocidas: <a href="http://www.msssi.gob.es/ciudadanos/saludAmbLaboral/prodQuimicos/sustPreparatorias/biocidas/docs/Inclusi onesES16.pdf">http://www.msssi.gob.es/ciudadanos/saludAmbLaboral/prodQuimicos/sustPreparatorias/biocidas/docs/Inclusi onesES16.pdf</a> Base de datos de productos fitosanitarios: <a href="http://www.magrama.gob.es/agricultura/pags/fitos/regi stro/fichas/pdf/Lista_sa.pdf">http://www.magrama.gob.es/agricultura/pags/fitos/regi stro/fichas/pdf/Lista_sa.pdf</a> )

propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)		
Switzerland	VLE (mg/m <sup>3</sup> )	1000 mg/m <sup>3</sup>
Switzerland	VLE (ppm)	400 ppm
Switzerland	VME (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>
Switzerland	VME (ppm)	200 ppm
Switzerland	Remark (CH)	4x15
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	999 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	400 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	1250 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	500 ppm
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (PEL) (ppm)	204 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m <sup>3</sup> )	1000 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (NPK-P) (ppm)	410 ppm
Czech Republic	Remark (CZ)	D
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	490 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (ppm)	200 ppm
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>
Finland	HTP-arvo (8h) (ppm)	200 ppm
Finland	HTP-arvo (15 min)	620 mg/m <sup>3</sup>
Finland	HTP-arvo (15 min) (ppm)	250 ppm
Hungary	AK-érték	500 mg/m <sup>3</sup>
Hungary	CK-érték	2000 mg/m <sup>3</sup>
Hungary	Megjegyzések (HU)	b, i; II.1.
Ireland	OEL (8 hours ref) (ppm)	200 ppm
Ireland	OEL (15 min ref) (ppm)	400 ppm
Ireland	Notes (IE)	Sk
Lithuania	IPRV (mg/m <sup>3</sup> )	350 mg/m <sup>3</sup>
Lithuania	IPRV (ppm)	150 ppm
Lithuania	TPRV (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
Lithuania	TPRV (ppm)	250 ppm
Norway	Grenseverdier (AN) (mg/m <sup>3</sup> )	245 mg/m <sup>3</sup>
Norway	Grenseverdier (AN) (ppm)	100 ppm
Poland	NDS (mg/m <sup>3</sup> )	900 mg/m <sup>3</sup>
Poland	NDSch (mg/m <sup>3</sup> )	1200 mg/m <sup>3</sup>
Romania	OEL TWA (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
Romania	OEL TWA (ppm)	81 ppm
Romania	OEL STEL (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>
Romania	OEL STEL (ppm)	203 ppm
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	350 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (ppm)	150 ppm
Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
Sweden	kortidsvärde (KTV) (ppm)	250 ppm
Australia	TWA (mg/m <sup>3</sup> )	983 mg/m <sup>3</sup>
Australia	TWA (ppm)	400 ppm
Australia	STEL (mg/m <sup>3</sup> )	1230 mg/m <sup>3</sup>
Australia	STEL (ppm)	500 ppm
Portugal	OEL TWA (ppm)	200 ppm
Portugal	OEL STEL (ppm)	400 ppm

acetone (67-64-1)		
EU	IOELV TWA (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	500 ppm
Austria	MAK (mg/m <sup>3</sup> )	1200 mg/m <sup>3</sup>
Austria	MAK (ppm)	500 ppm
Austria	MAK Short time value (mg/m <sup>3</sup> )	4800 mg/m <sup>3</sup>
Austria	MAK Short time value (ppm)	2000 ppm
Belgium	Limit value (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	500 ppm
Belgium	Short time value (mg/m <sup>3</sup> )	2420 mg/m <sup>3</sup>
Belgium	Short time value (ppm)	1000 ppm
Bulgaria	OEL TWA (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
Bulgaria	OEL STEL (mg/m <sup>3</sup> )	1400 mg/m <sup>3</sup>
France	VLE (mg/m <sup>3</sup> )	2420 mg/m <sup>3</sup>
France	VLE (ppm)	1000 ppm
France	VME (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup>
France	VME (ppm)	500 ppm
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	1200 mg/m <sup>3</sup>
Germany	TRGS 900 Occupational exposure limit value (ppm)	500 ppm
Germany	Remark (TRGS 900)	DFG,EU
Greece	OEL TWA (mg/m <sup>3</sup> )	1780 mg/m <sup>3</sup>
Greece	OEL STEL (mg/m <sup>3</sup> )	3560 mg/m <sup>3</sup>
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	250 ppm
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	500 ppm
Italy - Portugal - USA ACGIH	Remark (ACGIH)	eye irr; CNS impair; BEI
Italy	OEL TWA (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup>
Italy	OEL TWA (ppm)	500 ppm
Latvia	OEL TWA (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup>
Latvia	OEL TWA (ppm)	500 ppm
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	2400 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (ppm)	1000 ppm
Spain	VLA-ED (mg/m <sup>3</sup> )	1,210 mg/m <sup>3</sup> 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 trasposición 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.)
Spain	VLA-ED (ppm)	500 ppm 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 trasposición 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.)
Switzerland	VLE (mg/m <sup>3</sup> )	2400 mg/m <sup>3</sup>
Switzerland	VLE (ppm)	1000 ppm
Switzerland	VME (mg/m <sup>3</sup> )	1200 mg/m <sup>3</sup>
Switzerland	VME (ppm)	500 ppm
Switzerland	Remark (CH)	4x15
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup>



acetone (67-64-1)		
Netherlands	Grenswaarde TGG 8H (ppm)	Aceton,501 ppm; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value
Netherlands	Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	2420 mg/m <sup>3</sup>
Netherlands	Grenswaarde TGG 15MIN (ppm)	Aceton,1002 ppm; Netherlands; Short time value; Public occupational exposure limit value
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	500 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	3620 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	1500 ppm
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	800 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (PEL) (ppm)	337 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m <sup>3</sup> )	1500 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (NPK-P) (ppm)	632 ppm
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (ppm)	250 ppm
Denmark	Anmærkninger (DK)	E
Hungary	AK-érték	1210 mg/m <sup>3</sup>
Hungary	CK-érték	2420 mg/m <sup>3</sup>
Hungary	Megjegyzések (HU)	i; EU1
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (ppm)	500 ppm
Ireland	Notes (IE)	IOELV
Lithuania	IPRV (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup>
Lithuania	IPRV (ppm)	500 ppm
Lithuania	TPRV (mg/m <sup>3</sup> )	2420 mg/m <sup>3</sup>
Lithuania	TPRV (ppm)	1000 ppm
Malta	OEL TWA (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup>
Malta	OEL TWA (ppm)	500 ppm
Norway	Grenseverdier (AN) (mg/m <sup>3</sup> )	295 mg/m <sup>3</sup>
Norway	Grenseverdier (AN) (ppm)	125 ppm
Poland	NDS (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
Poland	NDSCh (mg/m <sup>3</sup> )	1800 mg/m <sup>3</sup>
Romania	OEL TWA (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup>
Romania	OEL TWA (ppm)	500 ppm
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (ppm)	250 ppm
Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> )	1200 mg/m <sup>3</sup>
Sweden	kortidsvärde (KTV) (ppm)	500 ppm
Australia	TWA (mg/m <sup>3</sup> )	1185 mg/m <sup>3</sup>
Australia	TWA (ppm)	500 ppm
Australia	STEL (mg/m <sup>3</sup> )	2375 mg/m <sup>3</sup>
Australia	STEL (ppm)	1000 ppm
Portugal	OEL TWA (ppm)	500 ppm
Portugal	OEL STEL (ppm)	750 ppm
butanone, ethyl methyl ketone (78-93-3)		
EU	IOELV TWA (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	200 ppm
EU	IOELV STEL (mg/m <sup>3</sup> )	900 mg/m <sup>3</sup>
EU	IOELV STEL (ppm)	300 ppm
Austria	MAK (mg/m <sup>3</sup> )	295 mg/m <sup>3</sup>

butanone, ethyl methyl ketone (78-93-3)		
Austria	MAK (ppm)	100 ppm
Austria	MAK Short time value (mg/m <sup>3</sup> )	590 mg/m <sup>3</sup>
Austria	MAK Short time value (ppm)	200 ppm
Austria	Remark (AT)	H
Belgium	Limit value (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	200 ppm
Belgium	Short time value (mg/m <sup>3</sup> )	900 mg/m <sup>3</sup>
Belgium	Short time value (ppm)	300 ppm
Bulgaria	OEL TWA (mg/m <sup>3</sup> )	590 mg/m <sup>3</sup>
Bulgaria	OEL STEL (mg/m <sup>3</sup> )	885 mg/m <sup>3</sup>
France	VLE (mg/m <sup>3</sup> )	900 mg/m <sup>3</sup>
France	VLE (ppm)	300 ppm
France	VME (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
France	VME (ppm)	200 ppm
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
Germany	TRGS 900 Occupational exposure limit value (ppm)	200 ppm
Germany	Remark (TRGS 900)	DFG,EU,H,Y
Greece	OEL TWA (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
Greece	OEL TWA (ppm)	200 ppm
Greece	OEL STEL (mg/m <sup>3</sup> )	900 mg/m <sup>3</sup>
Greece	OEL STEL (ppm)	300 ppm
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	200 ppm
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	300 ppm
Italy - Portugal - USA ACGIH	Remark (ACGIH)	URT irr; CNS & PNS impair
Italy	OEL TWA (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
Italy	OEL TWA (ppm)	200 ppm
Italy	OEL STEL (mg/m <sup>3</sup> )	900 mg/m <sup>3</sup>
Italy	OEL STEL (ppm)	300 ppm
Latvia	OEL TWA (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
Latvia	OEL TWA (ppm)	67 ppm
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	590 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (ppm)	200 ppm
Spain	VLA-ED (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup> 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 trasposición 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.)
Spain	VLA-ED (ppm)	200 ppm 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 trasposición 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.)

butanone, ethyl methyl ketone (78-93-3)		
Spain	VLA-EC (mg/m <sup>3</sup> )	900 mg/m <sup>3</sup> 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 trasposición 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.)
Spain	VLA-EC (ppm)	300 ppm 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 trasposición 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.)
Switzerland	VLE (mg/m <sup>3</sup> )	590 mg/m <sup>3</sup>
Switzerland	VLE (ppm)	200 ppm
Switzerland	VME (mg/m <sup>3</sup> )	590 mg/m <sup>3</sup>
Switzerland	VME (ppm)	200 ppm
Switzerland	Remark (CH)	15 min
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	590 mg/m <sup>3</sup>
Netherlands	Grenswaarde TGG 8H (ppm)	2-Butanon, 197 ppm; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value
Netherlands	Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	900 mg/m <sup>3</sup>
Netherlands	Grenswaarde TGG 15MIN (ppm)	2-Butanon, 300 ppm; Netherlands; Short time value; Public occupational exposure limit value
Netherlands	Remark (MAC)	H
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	200 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	899 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	300 ppm
United Kingdom	Remark (WEL)	Sk, BMGV
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (PEL) (ppm)	203 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m <sup>3</sup> )	900 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (NPK-P) (ppm)	305 ppm
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	145 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (ppm)	50 ppm
Denmark	Anmærkninger (DK)	EH
Finland	HTP-arvo (15 min)	300 mg/m <sup>3</sup>
Finland	HTP-arvo (15 min) (ppm)	100 ppm
Hungary	AK-érték	600 mg/m <sup>3</sup>
Hungary	CK-érték	900 mg/m <sup>3</sup>
Hungary	Megjegyzések (HU)	b, i; II.1.
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (ppm)	200 ppm
Ireland	OEL (15 min ref) (mg/m <sup>3</sup> )	900 mg/m <sup>3</sup>
Ireland	OEL (15 min ref) (ppm)	300 ppm

butanone, ethyl methyl ketone (78-93-3)		
Ireland	Notes (IE)	Sk, IOELV
Lithuania	IPRV (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
Lithuania	IPRV (ppm)	200 ppm
Lithuania	TPRV (mg/m <sup>3</sup> )	900 mg/m <sup>3</sup>
Lithuania	TPRV (ppm)	300 ppm
Malta	OEL TWA (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
Malta	OEL TWA (ppm)	200 ppm
Malta	OEL STEL (mg/m <sup>3</sup> )	900 mg/m <sup>3</sup>
Malta	OEL STEL (ppm)	300 ppm
Norway	Grenseverdier (AN) (mg/m <sup>3</sup> )	220 mg/m <sup>3</sup>
Norway	Grenseverdier (AN) (ppm)	75 ppm
Poland	NDS (mg/m <sup>3</sup> )	450 mg/m <sup>3</sup>
Poland	NDSch (mg/m <sup>3</sup> )	900 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	150 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (ppm)	50 ppm
Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> )	300 mg/m <sup>3</sup>
Sweden	kortidsvärde (KTV) (ppm)	100 ppm
Australia	TWA (mg/m <sup>3</sup> )	445 mg/m <sup>3</sup>
Australia	TWA (ppm)	150 ppm
Australia	STEL (mg/m <sup>3</sup> )	890 mg/m <sup>3</sup>
Australia	STEL (ppm)	300 ppm
Portugal	OEL TWA (ppm)	200 ppm
Portugal	OEL STEL (ppm)	300 ppm

## 8.2. Exposure controls

Appropriate engineering controls

: Provide adequate general and local exhaust ventilation.

Personal protective equipment

: Protective clothing. Protective goggles. Gloves.



Hand protection

: Wear protective gloves.

Eye protection

: Chemical goggles or safety glasses.

Skin and body protection

: Wear suitable protective clothing.

Respiratory protection

: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.

Other information

: Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state

: Liquid

Appearance

: Colourless liquid.

Colour

: clear.

Odour

: characteristic.

Odour threshold

: No data available

pH

: No data available

Relative evaporation rate (butylacetate=1)

: No data available

Melting point

: No data available

Freezing point

: No data available

Boiling point

: No data available

Flash point

: -3 °C

Auto-ignition temperature

: No data available

Decomposition temperature	: No data available
Flammability (solid, gas)	: Highly flammable liquid and vapour
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 0,843 - 0,853 g/cm <sup>3</sup>
Solubility	: In water, material is partially soluble.
Log Pow	: No data available
Log Kow	: 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**

No additional information available

**10.2. Chemical stability**

Highly flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

**10.3. Possibility of hazardous reactions**

Not established.

**10.4. Conditions to avoid**

Direct sunlight. Extremely high or low temperatures. Open flame.

**10.5. Incompatible materials**

Strong acids. Strong bases.

**10.6. Hazardous decomposition products**

Fume. Carbon monoxide. Carbon dioxide. May release flammable gases.

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

Acute toxicity : Dermal: Harmful in contact with skin. Inhalation: Harmful if inhaled.

Cellulose Thinners	
ATE CLP (dermal)	1100,000 mg/kg bodyweight
ATE CLP (gases)	4500,000 ppmv/4h
ATE CLP (vapours)	11,000 mg/l/4h
ATE CLP (dust,mist)	1,500 mg/l/4h
4-hydroxy-4-methylpentan-2-one, diacetone alcohol (123-42-2)	
LD50 oral rat	2520 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value; 3002 mg/kg bodyweight; Rat)
LD50 dermal rat	> 1875 mg/kg bodyweight (Rat; Experimental value; Equivalent or similar to OECD 402)
LD50 dermal rabbit	13500 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 404; 13750 mg/kg bodyweight; Rabbit)
ATE CLP (oral)	2520,000 mg/kg bodyweight
ATE CLP (dermal)	13500,000 mg/kg bodyweight
2-methoxy-1-methylethyl acetate (108-65-6)	
LD50 oral rat	6190 mg/kg bodyweight (Rat; Equivalent or similar to OECD 401; Experimental value)
LD50 dermal rat	> 2000 mg/kg (Rat; Experimental value; Equivalent or similar to OECD 402)
LD50 dermal rabbit	> 2000 mg/kg bodyweight (Rabbit; Experimental value; Equivalent or similar to OECD 402)
ATE CLP (oral)	6190,000 mg/kg bodyweight
xylene (1330-20-7)	
LD50 oral rat	> 3608 mg/kg (Rat)

<b>xylene (1330-20-7)</b>	
ATE CLP (dermal)	1100,000 mg/kg bodyweight
ATE CLP (gases)	4500,000 ppmv/4h
ATE CLP (vapours)	11,000 mg/l/4h
ATE CLP (dust,mist)	1,500 mg/l/4h
<b>Ethylbenzene (100-41-4)</b>	
LD50 oral rat	3500 mg/kg (Rat; Other; Experimental value)
LD50 dermal rabbit	15415 mg/kg (Rabbit; Literature study; Other; 15432 mg/kg; Rabbit; Experimental value)
LC50 inhalation rat (mg/l)	17,8 mg/l/4h (Rat; Literature study)
LC50 inhalation rat (ppm)	4000 ppm/4h (Rat; Literature study)
ATE CLP (oral)	3500,000 mg/kg bodyweight
ATE CLP (dermal)	15415,000 mg/kg bodyweight
ATE CLP (gases)	4000,000 ppmv/4h
ATE CLP (vapours)	17,800 mg/l/4h
ATE CLP (dust,mist)	1,500 mg/l/4h
<b>n-butyl acetate (123-86-4)</b>	
LD50 oral rat	10770 mg/kg (Rat; Equivalent or similar to OECD 423; Experimental value; 12789 mg/kg; Rat; Equivalent or similar to OECD 423; Experimental value; 10760 mg/kg bodyweight; Rat)
LD50 dermal rabbit	> 17600 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; >14112 mg/kg bodyweight; Rabbit)
LC50 inhalation rat (mg/l)	> 21,1 mg/l/4h (Rat; Weight of evidence; 0.74 mg/l/4h; Rat; Weight of evidence)
ATE CLP (oral)	10770,000 mg/kg bodyweight
<b>ethanol (64-17-5)</b>	
LD50 oral rat	10740 mg/kg bodyweight (Rat; OECD 401: Acute Oral Toxicity; Experimental value)
LD50 dermal rabbit	> 16000 mg/kg (Rabbit; Literature study)
ATE CLP (oral)	10740,000 mg/kg bodyweight
<b>propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)</b>	
LD50 oral rat	5045 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Experimental value; 5840 mg/kg bodyweight; Rat)
LD50 dermal rabbit	12870 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; 16.4; Rabbit)
LC50 inhalation rat (mg/l)	73 mg/l/4h (Rat)
ATE CLP (oral)	5045,000 mg/kg bodyweight
ATE CLP (dermal)	12870,000 mg/kg bodyweight
ATE CLP (vapours)	73,000 mg/l/4h
ATE CLP (dust,mist)	73,000 mg/l/4h
<b>acetone (67-64-1)</b>	
LD50 oral rat	5800 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value)
LD50 dermal rabbit	20000 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402)
LC50 inhalation rat (mg/l)	71 mg/l/4h (Rat; Experimental value; 76 mg/l/4h; Rat; Experimental value)
LC50 inhalation rat (ppm)	30000 ppm/4h (Rat; Experimental value)
ATE CLP (oral)	5800,000 mg/kg bodyweight
ATE CLP (dermal)	20000,000 mg/kg bodyweight
ATE CLP (gases)	30000,000 ppmv/4h
ATE CLP (vapours)	71,000 mg/l/4h
ATE CLP (dust,mist)	71,000 mg/l/4h
<b>butanone, ethyl methyl ketone (78-93-3)</b>	
LD50 oral rat	2737 mg/kg (Rat; Equivalent or similar to OECD 423; Read-across; 2054 mg/kg; Rat; Equivalent or similar to OECD 423; Read-across; 2328 mg/kg; Rat)
LD50 dermal rabbit	6480 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; >10; Rabbit)
LC50 inhalation rat (mg/l)	34 mg/l/4h (Rat; Literature study)
LC50 inhalation rat (ppm)	11300 ppm/4h (Rat; Literature study)
ATE CLP (oral)	2737,000 mg/kg bodyweight
ATE CLP (dermal)	6480,000 mg/kg bodyweight
ATE CLP (gases)	11300,000 ppmv/4h
ATE CLP (vapours)	34,000 mg/l/4h
ATE CLP (dust,mist)	34,000 mg/l/4h

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	: May cause respiratory irritation. May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure)	: May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified Based on available data, the classification criteria are not met
Potential adverse human health effects and symptoms	: Harmful in contact with skin.

## SECTION 12: Ecological information

### 12.1. Toxicity

4-hydroxy-4-methylpentan-2-one, diacetone alcohol (123-42-2)	
LC50 fish 1	8930 mg/l (48 h; <i>Leuciscus idus</i> ; GLP)
LC50 other aquatic organisms 1	100 - 1000 mg/l (96 h)
EC50 Daphnia 1	9000 mg/l (24 h; <i>Daphnia magna</i> ; Static system)
LC50 fish 2	420 mg/l (96 h; <i>Lepomis macrochirus</i> )
EC50 Daphnia 2	> 1000 mg/l (48 h; <i>Daphnia magna</i> ; GLP)
Threshold limit other aquatic organisms 1	100 - 1000,96 h; Protozoa
Threshold limit other aquatic organisms 2	1400 mg/l (72 h)
Threshold limit algae 1	530 mg/l (192 h; <i>Microcystis aeruginosa</i> )
Threshold limit algae 2	3000 mg/l (168 h; <i>Scenedesmus quadricauda</i> )
2-methoxy-1-methylethyl acetate (108-65-6)	
LC50 fish 1	161 mg/l (96 h; <i>Pimephales promelas</i> ; Static system)
EC50 Daphnia 1	380 mg/l (48 h; <i>Daphnia magna</i> ; Nominal concentration)
LC50 fish 2	100 - 180 mg/l (96 h; <i>Oncorhynchus mykiss</i> ; Nominal concentration)
Threshold limit algae 1	>= 1000 mg/l (96 h; <i>Pseudokirchneriella subcapitata</i> ; Nominal concentration)
Threshold limit algae 2	> 1000 mg/l (96 h; <i>Pseudokirchneriella subcapitata</i> ; Nominal concentration)
xylene (1330-20-7)	
LC50 fish 1	2,6 - 8,4 mg/l <i>Salmo gairdneri</i> ( <i>Oncorhynchus mykiss</i> )
EC50 Daphnia 1	1,4 - 7,4 mg/l (48 h; <i>Daphnia magna</i> )
Threshold limit algae 2	> 160 mg/l ( <i>Scenedesmus quadricauda</i> )
Ethylbenzene (100-41-4)	
LC50 fish 1	9,09 mg/l (96 h; <i>Pimephales promelas</i> )
EC50 Daphnia 1	77 mg/l (24 h; <i>Daphnia magna</i> )
EC50 other aquatic organisms 1	48 mg/l (72 h; <i>Scenedesmus subspicatus</i> )
LC50 fish 2	4,2 mg/l 96 h; <i>Salmo gairdneri</i> ( <i>Oncorhynchus mykiss</i> )
EC50 Daphnia 2	75 mg/l (48 h; <i>Daphnia magna</i> )
TLM fish 1	29 ppm (96 h; <i>Lepomis macrochirus</i> ; Hard water)
TLM fish 2	42,3 mg/l (96 h; <i>Pimephales promelas</i> )
TLM other aquatic organisms 1	10 - 100,96 h
Threshold limit algae 1	> 160 mg/l (192 h; <i>Scenedesmus quadricauda</i> ; Toxicity test)
Threshold limit algae 2	33 mg/l (192 h; <i>Microcystis aeruginosa</i> ; Toxicity test)
n-butyl acetate (123-86-4)	
LC50 fish 1	18 mg/l (96 h; <i>Pimephales promelas</i> ; Lethal)
LC50 other aquatic organisms 1	10 - 100 mg/l (96 h)
EC50 Daphnia 1	10 - 100 mg/l (48 h; <i>Daphnia magna</i> ; Nominal concentration)
EC50 other aquatic organisms 1	320 mg/l (96 h; Algae)

<b>n-butyl acetate (123-86-4)</b>	
LC50 fish 2	62 mg/l (96 h; Brachydanio rerio)
EC50 Daphnia 2	24 - 205 mg/l (24 h; Daphnia magna)
TLM fish 1	10 - 100,96 h; Pisces
Threshold limit other aquatic organisms 1	10 - 100,96 h
Threshold limit algae 1	21 mg/l (168 h; Scenedesmus quadricauda; Growth rate)
Threshold limit algae 2	280 mg/l (192 h; Microcystis aeruginosa; Growth rate)
<b>ethanol (64-17-5)</b>	
LC50 fish 2	13000 mg/l (LC50; 96 h; Salmo gairdneri; Static system; Fresh water)
<b>propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)</b>	
LC50 fish 1	4200 mg/l (96 h; Rasbora heteromorpha; Flow-through system)
EC50 Daphnia 1	> 10000 mg/l (48 h; Daphnia magna)
LC50 fish 2	9640 mg/l (96 h; Pimephales promelas; Lethal)
EC50 Daphnia 2	13299 mg/l (48 h; Daphnia magna)
Threshold limit algae 1	> 1000 mg/l (72 h; Scenedesmus subspicatus; Growth rate)
Threshold limit algae 2	1800 mg/l (72 h; Algae; Cell numbers)
<b>acetone (67-64-1)</b>	
LC50 fish 1	6210 mg/l (96 h; Pimephales promelas; Nominal concentration)
EC50 Daphnia 1	8800 mg/l (48 h; Daphnia pulex)
LC50 fish 2	5540 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
TLM fish 1	13000 ppm (96 h; Gambusia affinis; Turbulent water)
TLM fish 2	> 1000 ppm (96 h; Pisces)
Threshold limit other aquatic organisms 1	3000 mg/l (Plankton)
Threshold limit other aquatic organisms 2	28 mg/l (Protozoa)
Threshold limit algae 1	7500 mg/l (Scenedesmus quadricauda; pH = 7)
Threshold limit algae 2	3400 mg/l (48 h; Chlorella sp.)
<b>butanone, ethyl methyl ketone (78-93-3)</b>	
LC50 fish 1	1690 mg/l (96 h; Lepomis macrochirus; Lethal)
EC50 Daphnia 1	308 mg/l (48 h; Daphnia magna; Locomotor effect)
LC50 fish 2	2990 mg/l (96 h; Pimephales promelas)
TLM fish 1	5600 mg/l (96 h; Gambusia affinis)
TLM fish 2	1690 mg/l (96 h; Lepomis macrochirus)
TLM other aquatic organisms 1	> 1000 ppm (96 h)
Threshold limit algae 1	110 mg/l (168 h; Microcystis aeruginosa)
Threshold limit algae 2	4300 mg/l (192 h; Scenedesmus quadricauda)

## 12.2. Persistence and degradability

<b>Cellulose Thinners</b>	
Persistence and degradability	Not established.
<b>4-hydroxy-4-methylpentan-2-one, diacetone alcohol (123-42-2)</b>	
Persistence and degradability	Readily biodegradable in water. Biodegradable in soil. No (test)data available on mobility of the substance.
Biochemical oxygen demand (BOD)	0,07 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	2,11 g O <sub>2</sub> /g substance
ThOD	2,21 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0,03 % ThOD
<b>2-methoxy-1-methylethyl acetate (108-65-6)</b>	
Persistence and degradability	Readily biodegradable in water. Readily biodegradable in soil. Low potential for adsorption in soil.
<b>2-methoxypropyl acetate (70657-70-4)</b>	
Persistence and degradability	Biodegradability in water: no data available.
<b>xylene (1330-20-7)</b>	
Persistence and degradability	Readily biodegradable in water.
Biochemical oxygen demand (BOD)	1,40 - 2,53 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	2,56 - 2,91 g O <sub>2</sub> /g substance
ThOD	3,1 g O <sub>2</sub> /g substance



<b>xylene (1330-20-7)</b>	
BOD (% of ThOD)	44 - 81,6 % ThOD
<b>Ethylbenzene (100-41-4)</b>	
Persistence and degradability	Readily biodegradable in water. Biodegradable in soil. Low potential for adsorption in soil.
Biochemical oxygen demand (BOD)	1,44 g O <sub>2</sub> /g substance (20d.)
Chemical oxygen demand (COD)	2,1 g O <sub>2</sub> /g substance
ThOD	3,17 g O <sub>2</sub> /g substance
BOD (% of ThOD)	(20 day(s)) 45.4
<b>n-butyl acetate (123-86-4)</b>	
Persistence and degradability	Readily biodegradable in water. Biodegradable in soil. Very mobile in soil.
Biochemical oxygen demand (BOD)	0,15 - 0,5 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	2,32 g O <sub>2</sub> /g substance
ThOD	2,21 g O <sub>2</sub> /g substance
<b>ethanol (64-17-5)</b>	
Persistence and degradability	Readily biodegradable in water. Biodegradable in soil. No (test)data available on mobility of the substance.
Biochemical oxygen demand (BOD)	0,8 - 0,967 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	1,70 g O <sub>2</sub> /g substance
ThOD	2,10 g O <sub>2</sub> /g substance
<b>propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)</b>	
Persistence and degradability	Readily biodegradable in water. Biodegradable in soil. Biodegradable in soil in anaerobic condition. No (test)data available on mobility of the substance. Not established.
Biochemical oxygen demand (BOD)	1,19 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	2,23 g O <sub>2</sub> /g substance
ThOD	2,40 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0,49 % ThOD
<b>acetone (67-64-1)</b>	
Persistence and degradability	Readily biodegradable in water. Biodegradable in soil. Biodegradable in soil in anaerobic condition. No (test)data available on mobility of the substance. Not established.
Biochemical oxygen demand (BOD)	1,43 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	1,92 g O <sub>2</sub> /g substance
ThOD	2,20 g O <sub>2</sub> /g substance
BOD (% of ThOD)	(20 day(s)) 0.872
<b>butanone, ethyl methyl ketone (78-93-3)</b>	
Persistence and degradability	Readily biodegradable in water. Biodegradable in soil. Biodegradable in soil in anaerobic condition.
Biochemical oxygen demand (BOD)	1,92 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	2,31 g O <sub>2</sub> /g substance
ThOD	2,44 g O <sub>2</sub> /g substance
BOD (% of ThOD)	> % ThOD (5 day(s)) > 0.5
<b>12.3. Bioaccumulative potential</b>	
<b>Cellulose Thinners</b>	
Bioaccumulative potential	Not established.
<b>4-hydroxy-4-methylpentan-2-one, diacetone alcohol (123-42-2)</b>	
Log Pow	1,9 (Conclusion by analogy; Equivalent or similar to OECD 117)
Bioaccumulative potential	Low bioaccumulation potential (Log Kow < 4).
<b>2-methoxy-1-methylethyl acetate (108-65-6)</b>	
Log Pow	1,2 (Experimental value; Equivalent or similar to OECD 117; 20 °C; 0.36; Experimental value; OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method; 25 °C)
Bioaccumulative potential	Low bioaccumulation potential (Log Kow < 4).
<b>2-methoxypropyl acetate (70657-70-4)</b>	
Bioaccumulative potential	Bioaccumulation: No data available.
<b>xylene (1330-20-7)</b>	
BCF fish 1	14,1 - 24 (Pisces)
Log Pow	3,15 - 3,3
Bioaccumulative potential	Low bioaccumulation potential (BCF < 500).

Ethylbenzene (100-41-4)	
BCF fish 1	1 (6 weeks; Oncorhynchus kisutch)
BCF fish 2	15 - 79 (Carassius auratus)
BCF other aquatic organisms 1	4,68 (Lamellibranchiata)
Log Pow	3,15 (Experimental value; 3.6; Experimental value; EU Method A.8: Partition Coefficient; 20 °C)
Bioaccumulative potential	Low bioaccumulation potential (BCF < 500).

n-butyl acetate (123-86-4)	
BCF fish 1	14 (Pisces)
BCF other aquatic organisms 1	15,3
Log Pow	2,3 (Experimental value; OECD 117: Partition Coefficient (n-octanol/water), HPLC method; 25 °C)
Bioaccumulative potential	Low bioaccumulation potential (BCF < 500).

ethanol (64-17-5)	
Log Pow	-0,35 (Experimental value; OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method; 24 °C)
Bioaccumulative potential	Low bioaccumulation potential (Log Kow < 4).

propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)	
Log Pow	0,05 (Experimental value)
Bioaccumulative potential	Low bioaccumulation potential (Log Kow < 4). Not established.

acetone (67-64-1)	
BCF fish 1	0,69 (Pisces)
BCF other aquatic organisms 1	3
Log Pow	-0,24 (Test data)
Bioaccumulative potential	Not bioaccumulative. Not established.

butanone, ethyl methyl ketone (78-93-3)	
Log Pow	0,3 (Experimental value; OECD 117: Partition Coefficient (n-octanol/water), HPLC method; 40 °C)
Bioaccumulative potential	Low bioaccumulation potential (Log Kow < 4).

## 12.4. Mobility in soil

2-methoxy-1-methylethyl acetate (108-65-6)	
Surface tension	0,0294 N/m (20 °C; 100 vol %)

Ethylbenzene (100-41-4)	
Surface tension	0,029 N/m

n-butyl acetate (123-86-4)	
Surface tension	0,0145 N/m (25 °C)

ethanol (64-17-5)	
Surface tension	0,0245 N/m (20 °C)

propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)	
Surface tension	0,021 N/m (25 °C)

acetone (67-64-1)	
Surface tension	0,0237 N/m

butanone, ethyl methyl ketone (78-93-3)	
Surface tension	0,024 N/m (20 °C)
Ecology - soil	Slightly harmful to plants.

## 12.5. Results of PBT and vPvB assessment

No additional information available

## 12.6. Other adverse effects

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to a licensed waste centre in accordance with local/regional/national/international regulations.

Additional information : Handle empty containers with care because residual vapours are flammable.  
Ecology - waste materials : Avoid release to the environment.  
European List of Waste (LoW) code : 20 01 13\* - solvents

## SECTION 14: Transport information

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

### 14.1. UN number

UN-No. (ADR) : 1993

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : FLAMMABLE LIQUID, N.O.S.

Transport document description (ADR) : UN 1993 FLAMMABLE LIQUID, N.O.S. (CONTAINS acetone(67-64-1) ; 2-methoxypropyl acetate(70657-70-4) ; xylene(1330-20-7) ; n-butyl acetate(123-86-4) ; butanone, ethyl methyl ketone(78-93-3) ; propan-2-ol, isopropyl alcohol, isopropanol(67-63-0)), 3, II, (D/E)

### 14.3. Transport hazard class(es)

Class (ADR) : 3

Danger labels (ADR) : 3



### 14.4. Packing group

Packing group (ADR) : II

### 14.5. Environmental hazards

Other information : No supplementary information available.

### 14.6. Special precautions for user

#### 14.6.1. Overland transport

Hazard identification number (Kemler No.) : 33

Classification code (ADR) : F1

Orange plates :



Special provisions (ADR) 274, 601, 640D

Transport category (ADR) 2

Tunnel restriction code (ADR) : D/E

Limited quantities (ADR) 1I

Excepted quantities (ADR) : E2

EAC code : •3YE

#### 14.6.2. Transport by sea

No additional information available

#### 14.6.3. Air transport

No additional information available

### 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

Cellulose Thinners - 4-hydroxy-4-methylpentan-2-one, diacetone alcohol - 2-methoxy-1-methylethyl acetate - 2-methoxypropyl acetate - xylene - Ethylbenzene - n-butyl acetate - acetone - butanone, ethyl methyl ketone - propan-2-ol, isopropyl alcohol, isopropanol - ethanol

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	Cellulose Thinners - 4-hydroxy-4-methylpentan-2-one, diacetone alcohol - 2-methoxy-1-methylethyl acetate - 2-methoxypropyl acetate - xylene - Ethylbenzene - n-butyl acetate - acetone - butanone, ethyl methyl ketone - propan-2-ol, isopropyl alcohol, isopropanol - ethanol
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	Cellulose Thinners - 4-hydroxy-4-methylpentan-2-one, diacetone alcohol - xylene - Ethylbenzene - acetone - butanone, ethyl methyl ketone - propan-2-ol, isopropyl alcohol, isopropanol
30. Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as Toxic to Reproduction category 1A or 1B (Table 3.1) or Toxic to Reproduction category 1 or 2 (Table 3.2) and listed as follows: Reproductive toxicant category 1A adverse effects on sexual function and fertility or on development (Table 3.1) or Reproductive toxicant category 1 with R60 (May impair fertility) or R61 (May cause harm to the unborn child) (Table 3.2) listed in Appendix 5 Reproductive toxicant category 1B adverse effects on sexual function and fertility or on development (Table 3.1) or Reproductive toxicant category 2 with R60 (May impair fertility) or R61 (May cause harm to the unborn child) (Table 3.2) listed in Appendix 6	2-methoxypropyl acetate
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.	Cellulose Thinners - 2-methoxy-1-methylethyl acetate - 2-methoxypropyl acetate - xylene - Ethylbenzene - n-butyl acetate - acetone - butanone, ethyl methyl ketone - propan-2-ol, isopropyl alcohol, isopropanol - ethanol

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

### 15.1.2. National regulations

Water hazard class (WGK)

: 2 - hazard to waters

WGK remark

: Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4)

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Data sources

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information

: None.

Full text of R-, H- and EUH-statements:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Repr. 1B	Reproductive toxicity, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
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
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H360D	May damage the unborn child
H373	May cause damage to organs through prolonged or repeated exposure
R10	Flammable

R11	Highly flammable
R12	Extremely flammable
R20	Harmful by inhalation
R20/21	Harmful by inhalation and in contact with skin
R36	Irritating to eyes
R36/37/38	Irritating to eyes, respiratory system and skin
R37	Irritating to respiratory system
R61	May cause harm to the unborn child
R65	Harmful: may cause lung damage if swallowed
R66	Repeated exposure may cause skin dryness or cracking
R67	Vapours may cause drowsiness and dizziness
F	Highly flammable
F+	Extremely flammable
Xi	Irritant
Xn	Harmful

NSC EU 2

*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.*