



High Solids Universal Clear E9000

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Date of issue: 04/03/2015

Revision date:

Version: 1.0

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

1.1. Product identifier

Product form : Mixture
Product name : High Solids Universal Clear E9000
Product group : Clearcoat

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

1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial
For professional use only
Function or use category : Coating

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

HIGH TECK PRODUCTS
PO BOX 24631
WEST PALM BEACH, FLORIDA
33416 - USA
T 877-900-8325
info@nationaloak.com

1.4. Emergency telephone number

Emergency number : (800) 424-9300

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
Skin Sens. 1	H317
STOT SE 3	H336
Aquatic Chronic 3	H412

Full text of H-phrases: see section 16

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

Xn; R20/21
Xi; R38
R10
R66
R52/53

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) :



GHS02



GHS07

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Signal word (CLP)	: Danger
Hazardous ingredients	: n-butyl acetate, Solvent naphtha (petroleum), light arom., methyl acetate, Acetone, reaction mass of α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -hydroxypoly(oxyethylene) and α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene), Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate, toluene
Hazard statements (CLP)	: H225 - Highly flammable liquid and vapour H312+H332 - Harmful in contact with skin or if inhaled H315 - Causes skin irritation H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation H336 - May cause drowsiness or dizziness H412 - Harmful to aquatic life with long lasting effects
Precautionary statements (CLP)	: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking P261 - Avoid breathing spray, vapours P273 - Avoid release to the environment P280 - Wear face protection, protective clothing, protective gloves P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P312 - Call a doctor if you feel unwell
No labelling applicable	

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
xylene	(CAS No) 1330-20-7 (EC no) 215-535-7 (EC index no) 601-022-00-9	23 - 43	R10 Xn; R20/21 Xi; R38
methyl acetate	(CAS No) 79-20-9 (EC no) 201-185-2 (EC index no) 607-021-00-X	5 - 23	F; R11 Xi; R36 R66 R67
Acetone	(CAS No) 67-64-1 (EC no) 200-662-2 (EC index no) 606-001-00-8	5 - 23	F; R11 Xi; R36 R66 R67
ethylbenzene	(CAS No) 100-41-4 (EC no) 202-849-4 (EC index no) 601-023-00-4	5 - 23	F; R11 Xn; R20
n-butyl acetate	(CAS No) 123-86-4 (EC no) 204-658-1 (EC index no) 607-025-00-1	< 5	R10 R66 R67
2-methoxy-1-methylethyl acetate substance with a Community workplace exposure limit	(CAS No) 108-65-6 (EC no) 203-603-9 (EC index no) 607-195-00-7	< 5	R10
2-butoxyethyl acetate, butylglycol acetate	(CAS No) 112-07-2 (EC no) 203-933-3 (EC index no) 607-038-00-2	< 5	Xn; R20/21
Solvent naphtha (petroleum), light arom.,	(EC no) 918-668-5	< 5	Xi; R37 R10 Xn; R65 R66 R67 N; R51/53
4-methylpentan-2-one, isobutyl methyl ketone	(CAS No) 108-10-1 (EC no) 203-550-1 (EC index no) 606-004-00-4	< 5	F; R11 Xn; R20 Xi; R36/37 R66

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Name	Product identifier	%	Classification according to Directive 67/548/EEC
reaction mass of α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -hydroxypoly(oxyethylene) and α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)	(EC no) 400-830-7 (EC index no) 607-176-00-3	< 5	R43 N; R51/53
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	(EC no) 915-687-0	< 5	Not classified
Name	Product identifier	Specific concentration limits	
xylene	(CAS No) 1330-20-7 (EC no) 215-535-7 (EC index no) 601-022-00-9	(C >= 12.5) Xn;R20/21	
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	23 - 43	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315
methyl acetate	(CAS No) 79-20-9 (EC no) 201-185-2 (EC index no) 607-021-00-X	5 - 23	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Acetone	(CAS No) 67-64-1 (EC no) 200-662-2 (EC index no) 606-001-00-8	5 - 23	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
ethylbenzene	(CAS No) 100-41-4 (EC no) 202-849-4 (EC index no) 601-023-00-4	5 - 23	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 STOT RE 2, H373 Asp. Tox. 1, H304
n-butyl acetate	(CAS No) 123-86-4 (EC no) 204-658-1 (EC index no) 607-025-00-1	< 5	Flam. Liq. 3, H226 STOT SE 3, H336
2-methoxy-1-methylethyl acetate substance with a Community workplace exposure limit	(CAS No) 108-65-6 (EC no) 203-603-9 (EC index no) 607-195-00-7	< 5	Flam. Liq. 3, H226
2-butoxyethyl acetate, butylglycol acetate	(CAS No) 112-07-2 (EC no) 203-933-3 (EC index no) 607-038-00-2	< 5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332
Solvent naphtha (petroleum), light arom.,	(EC no) 918-668-5	< 5	Flam. Liq. 3, H226 STOT SE 3, H336 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
4-methylpentan-2-one, isobutyl methyl ketone	(CAS No) 108-10-1 (EC no) 203-550-1 (EC index no) 606-004-00-4	< 5	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2, H319 STOT SE 3, H335
reaction mass of α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -hydroxypoly(oxyethylene) and α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)	(EC no) 400-830-7 (EC index no) 607-176-00-3	< 5	Skin Sens. 1, H317 Aquatic Chronic 2, H411
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	(EC no) 915-687-0	< 5	Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of R- and H-phrases: 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: Get medical advice/attention. Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. Repeated exposure may cause skin dryness or cracking.
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: Get medical advice/attention. Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/injuries after inhalation	: May cause an allergic skin reaction. 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

Protective equipment	: Protective clothing. Safety glasses. Gloves.
Emergency procedures	: Evacuate unnecessary personnel.

6.1.2. For emergency responders

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

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment	: Collect spillage. Contain released substance, pump into suitable containers.
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.

6.4. Reference to other sections

For further information refer to section 13. 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.
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. Avoid breathing spray, vapours. Use only outdoors or in a well-ventilated area.
Hygiene measures	: Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

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 electrical, Lighting equipment equipment.
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Ignition sources, Heat sources, Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep in fireproof place. Keep container tightly closed.
Incompatible products	: Strong bases. Strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight. Heat sources.
Storage temperature	: < 25 °C
Storage area	: Store in a well-ventilated place.

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Special rules on packaging : Keep only in original container.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

methyl acetate (79-20-9)		
Austria	Local name	Methylacetat
Austria	MAK (mg/m ³)	610 mg/m ³
Austria	MAK (ppm)	200 ppm
Austria	MAK Short time value (mg/m ³)	1220 mg/m ³
Austria	MAK Short time value (ppm)	400 ppm
Belgium	Local name	Acétate de méthyle
Belgium	Limit value (mg/m ³)	615 mg/m ³
Belgium	Limit value (ppm)	200 ppm
Belgium	Short time value (mg/m ³)	768 mg/m ³
Belgium	Short time value (ppm)	250 ppm
Croatia	Local name	Metil-acetat
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	616 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (ppm)	200 ppm
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³)	770 mg/m ³
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	250 ppm
Croatia	Naznake (HR)	F, Xi
Czech Republic	Local name	Methylacetát
Czech Republic	Expoziční limity (PEL) (mg/m ³)	600 mg/m ³
Czech Republic	Expoziční limity (PEL) (ppm)	200 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m ³)	800 mg/m ³
Czech Republic	Expoziční limity (NPK-P) (ppm)	260 ppm
Denmark	Local name	Methylacetat (1994)
Denmark	Grænseværdie (langvarig) (mg/m ³)	455 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	150 ppm
Estonia	Local name	Metüületsetaat (metüületanaat)
Estonia	OEL TWA (mg/m ³)	450 mg/m ³
Estonia	OEL TWA (ppm)	150 ppm
Estonia	OEL STEL (ppm)	900 ppm
Finland	Local name	Metyylisetaatti
Finland	HTP-arvo (8h) (mg/m ³)	610 mg/m ³
Finland	HTP-arvo (8h) (ppm)	200 ppm
Finland	HTP-arvo (15 min)	770 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	250 ppm
France	Local name	Acétate de méthyle
France	VME (mg/m ³)	610 mg/m ³
France	VME (ppm)	200 ppm
France	VLE (mg/m ³)	760 mg/m ³
France	VLE (ppm)	250 ppm
Germany	Local name	Methylacetat
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	610 mg/m ³
Germany	TRGS 900 Occupational exposure limit value (ppm)	200 ppm
Germany	Remark (TRGS 900)	DFG, Y
Greece	OEL TWA (mg/m ³)	610 mg/m ³
Greece	OEL TWA (ppm)	200 ppm
Greece	OEL STEL (mg/m ³)	760 mg/m ³
Greece	OEL STEL (ppm)	250 ppm

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methyl acetate (79-20-9)		
Hungary	Local name	METIL-ACETÁT
Hungary	AK-érték	610 mg/m ³
Hungary	CK-érték	2440 mg/m ³
Hungary	Megjegyzések (HU)	b, sz, i; l.
Ireland	Local name	Methyl acetate
Ireland	OEL (8 hours ref) (mg/m ³)	610 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	200 ppm
Ireland	OEL (15 min ref) (mg/m ³)	760 mg/m ³
Ireland	OEL (15 min ref) (ppm)	250 ppm
Latvia	Local name	Metilacetāts (etiķskābesmetilesteris)
Latvia	OEL TWA (mg/m ³)	100 mg/m ³
Lithuania	Local name	Metilacetatas
Lithuania	IPRV (mg/m ³)	450 mg/m ³
Lithuania	IPRV (ppm)	150 ppm
Lithuania	TPRV (mg/m ³)	900 mg/m ³
Lithuania	TPRV (ppm)	300 ppm
Poland	Local name	Octan metylu
Poland	NDS (mg/m ³)	250 mg/m ³
Poland	NDSch (mg/m ³)	600 mg/m ³
Portugal	Local name	Acetato de metilo
Portugal	OEL TWA (ppm)	200 ppm
Portugal	OEL STEL (ppm)	250 ppm
Romania	Local name	Acetat de metil
Romania	OEL TWA (mg/m ³)	200 mg/m ³
Romania	OEL TWA (ppm)	63 ppm
Romania	OEL STEL (mg/m ³)	600 mg/m ³
Romania	OEL STEL (ppm)	188 ppm
Slovenia	Local name	metilacetat
Slovenia	OEL TWA (mg/m ³)	610 mg/m ³
Slovenia	OEL TWA (ppm)	200 ppm
Slovenia	OEL STEL (mg/m ³)	2440 mg/m ³
Slovenia	OEL STEL (ppm)	800 ppm
Sweden	Local name	Methyl acetate
Sweden	nivågränsvärde (NVG) (mg/m ³)	450 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	150 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	900 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	300 ppm
United Kingdom	Local name	Methyl acetate
United Kingdom	WEL TWA (mg/m ³)	616 mg/m ³
United Kingdom	WEL TWA (ppm)	200 ppm
United Kingdom	WEL STEL (mg/m ³)	770 mg/m ³
United Kingdom	WEL STEL (ppm)	250 ppm
Iceland	Local name	Metýlasetat
Iceland	OEL (8 hours ref) (mg/m ³)	455 mg/m ³
Iceland	OEL (8 hours ref) (ppm)	150 ppm
Norway	Local name	Metylacetat
Norway	Gjennomsnittsverdier (AN) (mg/m ³)	305 mg/m ³
Norway	Gjennomsnittsverdier (AN) (ppm)	100 ppm
Switzerland	Local name	Acétate de méthyle
Switzerland	VME (mg/m ³)	310 mg/m ³

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methyl acetate (79-20-9)		
Switzerland	VME (ppm)	100 ppm
Switzerland	VLE (mg/m ³)	1240 mg/m ³
Switzerland	VLE (ppm)	400 ppm
Switzerland	Remark (CH)	4x15
Australia	Local name	Methyl acetate
Australia	TWA (mg/m ³)	606 mg/m ³
Australia	TWA (ppm)	200 ppm
Australia	STEL (mg/m ³)	757 mg/m ³
Australia	STEL (ppm)	250 ppm
USA - ACGIH	Local name	Methyl acetate
USA - ACGIH	ACGIH TWA (ppm)	200 ppm
USA - ACGIH	ACGIH STEL (ppm)	250 ppm
USA - ACGIH	Remark (ACGIH)	eye & URT irr
USA - OSHA	Local name	Methyl acetate
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	610 mg/m ³
USA - OSHA	OSHA PEL (TWA) (ppm)	200 ppm
Acetone (67-64-1)		
EU	Local name	Acetone
EU	IOELV TWA (mg/m ³)	1210 mg/m ³
EU	IOELV TWA (ppm)	500 ppm
Austria	Local name	Aceton
Austria	MAK (mg/m ³)	1200 mg/m ³
Austria	MAK (ppm)	500 ppm
Austria	MAK Short time value (mg/m ³)	4800 mg/m ³
Austria	MAK Short time value (ppm)	2000 ppm
Belgium	Local name	Acétone
Belgium	Limit value (mg/m ³)	1210 mg/m ³
Belgium	Limit value (ppm)	500 ppm
Belgium	Short time value (mg/m ³)	2420 mg/m ³
Belgium	Short time value (ppm)	1000 ppm
Bulgaria	Local name	Ацетон*
Bulgaria	OEL TWA (mg/m ³)	600 mg/m ³
Bulgaria	OEL STEL (mg/m ³)	1400 mg/m ³
Croatia	Local name	Aceton
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	1210 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (ppm)	500 ppm
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³)	3620 mg/m ³
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	1500 ppm
Croatia	Naznake (HR)	F, Xi EU*
Czech Republic	Local name	Aceton
Czech Republic	Expoziční limity (PEL) (mg/m ³)	800 mg/m ³
Czech Republic	Expoziční limity (PEL) (ppm)	337 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m ³)	1500 mg/m ³
Czech Republic	Expoziční limity (NPK-P) (ppm)	632 ppm
Denmark	Local name	Acetone
Denmark	Grænseværdie (langvarig) (mg/m ³)	600 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	250 ppm
Denmark	Anmærkninger (DK)	E
Estonia	Local name	Atsetoon (2-propanoon)
Estonia	OEL TWA (mg/m ³)	1210 mg/m ³
Estonia	OEL TWA (ppm)	500 ppm
France	Local name	Acétone
France	VME (mg/m ³)	1210 mg/m ³

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Acetone (67-64-1)		
France	VME (ppm)	500 ppm
France	VLE (mg/m ³)	2420 mg/m ³
France	VLE (ppm)	1000 ppm
Germany	Local name	Aceton
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	1200 mg/m ³
Germany	TRGS 900 Occupational exposure limit value (ppm)	500 ppm
Germany	Remark (TRGS 900)	DFG,EU
Greece	OEL TWA (mg/m ³)	1780 mg/m ³
Greece	OEL STEL (mg/m ³)	3560 mg/m ³
Hungary	Local name	ACETON
Hungary	AK-érték	1210 mg/m ³
Hungary	CK-érték	2420 mg/m ³
Hungary	Megjegyzések (HU)	i; EU1
Ireland	Local name	Acetone
Ireland	OEL (8 hours ref) (mg/m ³)	1210 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	500 ppm
Ireland	Notes (IE)	IOELV
Italy	Local name	Acetone
Italy	OEL TWA (mg/m ³)	1210 mg/m ³
Italy	OEL TWA (ppm)	500 ppm
Latvia	Local name	Acetons (2-propanons, dimetilketons)
Latvia	OEL TWA (mg/m ³)	1210 mg/m ³
Latvia	OEL TWA (ppm)	500 ppm
Lithuania	Local name	Acetonas
Lithuania	IPRV (mg/m ³)	1210 mg/m ³
Lithuania	IPRV (ppm)	500 ppm
Lithuania	TPRV (mg/m ³)	2420 mg/m ³
Lithuania	TPRV (ppm)	1000 ppm
Luxembourg	Local name	Acétone
Luxembourg	OEL TWA (mg/m ³)	1210 mg/m ³
Luxembourg	OEL TWA (ppm)	500 ppm
Malta	Local name	Acetone
Malta	OEL TWA (mg/m ³)	1210 mg/m ³
Malta	OEL TWA (ppm)	500 ppm
Netherlands	Local name	Aceton
Netherlands	Grenswaarde TGG 8H (mg/m ³)	1210 mg/m ³
Netherlands	Grenswaarde TGG 15MIN (mg/m ³)	2420 mg/m ³
Poland	Local name	Aceton
Poland	NDS (mg/m ³)	600 mg/m ³
Poland	NDSch (mg/m ³)	1800 mg/m ³
Portugal	Local name	Acetona
Portugal	OEL TWA (ppm)	500 ppm
Portugal	OEL STEL (ppm)	750 ppm
Romania	Local name	Acetona
Romania	OEL TWA (mg/m ³)	1210 mg/m ³
Romania	OEL TWA (ppm)	500 ppm
Slovenia	Local name	aceton
Slovenia	OEL TWA (mg/m ³)	1210 mg/m ³
Slovenia	OEL TWA (ppm)	500 ppm
Sweden	Local name	Acetone
Sweden	nivågränsvärde (NVG) (mg/m ³)	600 mg/m ³

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Acetone (67-64-1)		
Sweden	nivågränsvärde (NVG) (ppm)	250 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	1200 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	500 ppm
United Kingdom	Local name	Acetone
United Kingdom	WEL TWA (mg/m ³)	1210 mg/m ³
United Kingdom	WEL TWA (ppm)	500 ppm
United Kingdom	WEL STEL (mg/m ³)	3620 mg/m ³
United Kingdom	WEL STEL (ppm)	1500 ppm
Iceland	Local name	Aseton (2-própanón)
Iceland	OEL (8 hours ref) (mg/m ³)	600 mg/m ³
Iceland	OEL (8 hours ref) (ppm)	250 ppm
Norway	Local name	Aceton
Norway	Gjennomsnittsverdier (AN) (mg/m ³)	295 mg/m ³
Norway	Gjennomsnittsverdier (AN) (ppm)	125 ppm
Switzerland	Local name	Acétone
Switzerland	VME (mg/m ³)	1200 mg/m ³
Switzerland	VME (ppm)	500 ppm
Switzerland	VLE (mg/m ³)	2400 mg/m ³
Switzerland	VLE (ppm)	1000 ppm
Switzerland	Remark (CH)	4x15
Australia	Local name	Acetone
Australia	TWA (mg/m ³)	1185 mg/m ³
Australia	TWA (ppm)	500 ppm
Australia	STEL (mg/m ³)	2375 mg/m ³
Australia	STEL (ppm)	1000 ppm
USA - ACGIH	Local name	Acetone
USA - ACGIH	ACGIH TWA (ppm)	200 ppm
USA - ACGIH	ACGIH STEL (ppm)	500 ppm
USA - ACGIH	Remark (ACGIH)	eye irr; CNS impair; BEI
USA - OSHA	Local name	Acetone
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	2400 mg/m ³
USA - OSHA	OSHA PEL (TWA) (ppm)	1000 ppm
ethylbenzene (100-41-4)		
EU	Local name	Ethylbenzene
EU	IOELV TWA (mg/m ³)	442 mg/m ³
EU	IOELV TWA (ppm)	100 ppm
EU	IOELV STEL (mg/m ³)	884 mg/m ³
EU	IOELV STEL (ppm)	200 ppm
EU	Notes	Skin
Austria	Local name	Ethylbenzol
Austria	MAK (mg/m ³)	440 mg/m ³
Austria	MAK (ppm)	100 ppm
Austria	MAK Short time value (mg/m ³)	880 mg/m ³
Austria	MAK Short time value (ppm)	200 ppm
Austria	Remark (AT)	H
Belgium	Local name	Ethylbenzène
Belgium	Limit value (mg/m ³)	442 mg/m ³
Belgium	Limit value (ppm)	100 ppm
Belgium	Short time value (mg/m ³)	551 mg/m ³
Belgium	Short time value (ppm)	125 ppm
Belgium	Remark (BE)	D
Bulgaria	Local name	Етилбензен•
Bulgaria	OEL TWA (mg/m ³)	435 mg/m ³
Bulgaria	OEL STEL (mg/m ³)	545 mg/m ³
Croatia	Local name	Etilbenzen
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	442 mg/m ³

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ethylbenzene (100-41-4)		
Croatia	GVI (granična vrijednost izloženosti) (ppm)	100 ppm
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³)	884 mg/m ³
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	200 ppm
Croatia	Naznake (HR)	K EU*, F, Xn
Czech Republic	Local name	Ethylbenzen
Czech Republic	Expoziční limity (PEL) (mg/m ³)	200 mg/m ³
Czech Republic	Expoziční limity (PEL) (ppm)	50 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m ³)	500 mg/m ³
Czech Republic	Expoziční limity (NPK-P) (ppm)	120 ppm
Czech Republic	Remark (CZ)	D
Denmark	Local name	Ethylbenzen
Denmark	Grænseværdie (langvarig) (mg/m ³)	217 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	50 ppm
Denmark	Anmærkninger (DK)	EK
Estonia	Local name	Etüülbenseen
Estonia	OEL TWA (mg/m ³)	442 mg/m ³
Estonia	OEL TWA (ppm)	100 ppm
Estonia	OEL STEL (mg/m ³)	884 mg/m ³
Estonia	OEL STEL (ppm)	200 ppm
Finland	Local name	Etylibentseeni
Finland	HTP-arvo (8h) (mg/m ³)	220 mg/m ³
Finland	HTP-arvo (8h) (ppm)	50 ppm
Finland	HTP-arvo (15 min)	880 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	200 ppm
Germany	Local name	Ethylbenzol
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	88 mg/m ³
Germany	TRGS 900 Occupational exposure limit value (ppm)	20 ppm
Germany	Remark (TRGS 900)	EU,H,13
Greece	OEL TWA (mg/m ³)	435 mg/m ³
Greece	OEL TWA (ppm)	100 ppm
Greece	OEL STEL (mg/m ³)	545 mg/m ³
Greece	OEL STEL (ppm)	125 ppm
Hungary	Local name	ETILBENZOL
Hungary	AK-érték	442 mg/m ³
Hungary	CK-érték	884 mg/m ³
Hungary	Megjegyzések (HU)	b, i; l.
Ireland	Local name	Ethylbenzene
Ireland	OEL (8 hours ref) (mg/m ³)	442 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	100 ppm
Ireland	OEL (15 min ref) (mg/m ³)	884 mg/m ³
Ireland	OEL (15 min ref) (ppm)	200 ppm
Ireland	Notes (IE)	Sk, IOELV
Italy	Local name	Etilbenzene
Italy	OEL TWA (mg/m ³)	442 mg/m ³
Italy	OEL TWA (ppm)	100 ppm
Italy	OEL STEL (mg/m ³)	884 mg/m ³
Italy	OEL STEL (ppm)	200 ppm
Lithuania	Local name	Etilbenzenas

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ethylbenzene (100-41-4)		
Lithuania	IPRV (mg/m ³)	442 mg/m ³
Lithuania	IPRV (ppm)	100 ppm
Lithuania	TPRV (mg/m ³)	884 mg/m ³
Lithuania	TPRV (ppm)	200 ppm
Lithuania	Remark (LT)	O
Luxembourg	Local name	Ethylbenzène
Luxembourg	OEL TWA (mg/m ³)	442 mg/m ³
Luxembourg	OEL TWA (ppm)	100 ppm
Luxembourg	OEL STEL (mg/m ³)	884 mg/m ³
Luxembourg	OEL STEL (ppm)	200 ppm
Malta	Local name	Ethylbenzene
Malta	OEL TWA (mg/m ³)	442 mg/m ³
Malta	OEL TWA (ppm)	100 ppm
Malta	OEL STEL (mg/m ³)	884 mg/m ³
Malta	OEL STEL (ppm)	200 ppm
Netherlands	Local name	Ethylbenzeen
Netherlands	Grenswaarde TGG 8H (mg/m ³)	215 mg/m ³
Netherlands	Grenswaarde TGG 15MIN (mg/m ³)	430 mg/m ³
Netherlands	Remark (MAC)	H
Poland	Local name	Etylobenzen
Poland	NDS (mg/m ³)	200 mg/m ³
Poland	NDSch (mg/m ³)	400 mg/m ³
Portugal	Local name	Etilbenzeno
Portugal	OEL TWA (ppm)	100 ppm
Portugal	OEL STEL (ppm)	125 ppm
Romania	Local name	Etilbenzen
Romania	OEL TWA (mg/m ³)	442 mg/m ³
Romania	OEL TWA (ppm)	100 ppm
Romania	OEL STEL (mg/m ³)	884 mg/m ³
Romania	OEL STEL (ppm)	200 ppm
Slovenia	Local name	etilbenzen
Slovenia	OEL TWA (mg/m ³)	442 mg/m ³
Slovenia	OEL TWA (ppm)	100 ppm
Slovenia	OEL STEL (mg/m ³)	884 mg/m ³
Slovenia	OEL STEL (ppm)	200 ppm
Sweden	Local name	Ethylbenzene
Sweden	nivågränsvärde (NVG) (mg/m ³)	200 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	50 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	450 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	100 ppm
United Kingdom	Local name	Ethylbenzene
United Kingdom	WEL TWA (mg/m ³)	441 mg/m ³
United Kingdom	WEL TWA (ppm)	100 ppm
United Kingdom	WEL STEL (mg/m ³)	552 mg/m ³
United Kingdom	WEL STEL (ppm)	125 ppm
United Kingdom	Remark (WEL)	Sk
Iceland	Local name	Etylbensen
Iceland	OEL (8 hours ref) (mg/m ³)	200 mg/m ³
Iceland	OEL (8 hours ref) (ppm)	50 ppm
Iceland	OEL (15 min ref) (mg/m ³)	884 mg/m ³
Iceland	OEL (15 min ref) (ppm)	200 ppm
Iceland	Notes (IS)	H

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ethylbenzene (100-41-4)		
Norway	Local name	Etylbenzen
Norway	Gjennomsnittsverdier (AN) (mg/m ³)	20 mg/m ³
Norway	Gjennomsnittsverdier (AN) (ppm)	5 ppm
Norway	Merknader (NO)	H K
Switzerland	Local name	Ethylbenzène
Switzerland	VME (mg/m ³)	435 mg/m ³
Switzerland	VME (ppm)	100 ppm
Switzerland	VLE (mg/m ³)	435 mg/m ³
Switzerland	VLE (ppm)	100 ppm
Switzerland	Remark (CH)	15 min
Australia	Local name	Ethyl benzene
Australia	TWA (mg/m ³)	434 mg/m ³
Australia	TWA (ppm)	100 ppm
Australia	STEL (mg/m ³)	543 mg/m ³
Australia	STEL (ppm)	125 ppm
USA - ACGIH	Local name	Ethyl benzene
USA - ACGIH	ACGIH TWA (ppm)	20 ppm
USA - ACGIH	Remark (ACGIH)	URT irr; kidney dam (nephropathy)
USA - OSHA	Local name	Ethyl benzene
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	435 mg/m ³
USA - OSHA	OSHA PEL (TWA) (ppm)	100 ppm
n-butyl acetate (123-86-4)		
Belgium	Local name	Acétate de n-butyle
Belgium	Limit value (mg/m ³)	723 mg/m ³
Belgium	Limit value (ppm)	150 ppm
Belgium	Short time value (mg/m ³)	964 mg/m ³
Belgium	Short time value (ppm)	200 ppm
Bulgaria	Local name	n-Бутилацетат
Bulgaria	OEL TWA (mg/m ³)	710 mg/m ³
Bulgaria	OEL STEL (mg/m ³)	950 mg/m ³
Croatia	Local name	n-Butil-acetat
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	724 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (ppm)	150 ppm
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³)	966 mg/m ³
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	200 ppm
Czech Republic	Local name	Butylacetát
Czech Republic	Expoziční limity (PEL) (mg/m ³)	950 mg/m ³
Czech Republic	Expoziční limity (PEL) (ppm)	200.5 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m ³)	1200 mg/m ³
Czech Republic	Expoziční limity (NPK-P) (ppm)	253 ppm
Denmark	Local name	Butylacetat, alle isomere
Denmark	Grænseværdie (langvarig) (mg/m ³)	710 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	150 ppm
Finland	Local name	n-Butyylisetaatti
Finland	HTP-arvo (8h) (mg/m ³)	720 mg/m ³
Finland	HTP-arvo (8h) (ppm)	150 ppm
Finland	HTP-arvo (15 min)	960 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	200 ppm
France	Local name	Acétate de n-butyle
France	VME (mg/m ³)	710 mg/m ³
France	VME (ppm)	150 ppm
France	VLE (mg/m ³)	940 mg/m ³

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n-butyl acetate (123-86-4)		
France	VLE (ppm)	200 ppm
Greece	OEL TWA (mg/m ³)	710 mg/m ³
Greece	OEL TWA (ppm)	150 ppm
Greece	OEL STEL (mg/m ³)	950 mg/m ³
Greece	OEL STEL (ppm)	200 ppm
Hungary	Local name	n-BUTIL-ACETÁT
Hungary	AK-érték	950 mg/m ³
Hungary	CK-érték	950 mg/m ³
Hungary	Megjegyzések (HU)	i, sz; l.
Ireland	Local name	Butyl acetate
Ireland	OEL (8 hours ref) (mg/m ³)	710 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	150 ppm
Ireland	OEL (15 min ref) (mg/m ³)	950 mg/m ³
Ireland	OEL (15 min ref) (ppm)	200 ppm
Latvia	Local name	Etiķskābesbutilesteris (n-butilacetāts)
Latvia	OEL TWA (mg/m ³)	200 mg/m ³
Poland	Local name	Octan butylu (n-butylu octan)
Poland	NDS (mg/m ³)	200 mg/m ³
Poland	NDSCh (mg/m ³)	950 mg/m ³
Portugal	Local name	Acetato de n-butilo
Portugal	OEL TWA (ppm)	150 ppm
Portugal	OEL STEL (ppm)	200 ppm
Romania	Local name	Acetat de butil
Romania	OEL TWA (mg/m ³)	715 mg/m ³
Romania	OEL TWA (ppm)	150 ppm
Romania	OEL STEL (mg/m ³)	950 mg/m ³
Romania	OEL STEL (ppm)	200 ppm
Slovenia	Local name	n-butilacetat
Slovenia	OEL TWA (mg/m ³)	480 mg/m ³
Slovenia	OEL TWA (ppm)	100 ppm
Slovenia	OEL STEL (mg/m ³)	480 mg/m ³
Slovenia	OEL STEL (ppm)	100 ppm
Sweden	Local name	Butyl acetate n-Butyl
Sweden	nivågränsvärde (NVG) (mg/m ³)	500 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	100 ppm
United Kingdom	Local name	Butyl acetate
United Kingdom	WEL TWA (mg/m ³)	724 mg/m ³
United Kingdom	WEL TWA (ppm)	150 ppm
United Kingdom	WEL STEL (mg/m ³)	966 mg/m ³
United Kingdom	WEL STEL (ppm)	200 ppm
Iceland	Local name	Bútýlasetat, allir ísómerar (ísóbútýlasetat)
Iceland	OEL (8 hours ref) (mg/m ³)	700 mg/m ³
Iceland	OEL (8 hours ref) (ppm)	150 ppm
Switzerland	Local name	1-Butylacétate
Switzerland	VME (mg/m ³)	480 mg/m ³
Switzerland	VME (ppm)	100 ppm
Switzerland	VLE (mg/m ³)	960 mg/m ³
Switzerland	VLE (ppm)	200 ppm
Switzerland	Remark (CH)	4x15
Australia	Local name	n-Butyl acetate
Australia	TWA (mg/m ³)	713 mg/m ³
Australia	TWA (ppm)	150 ppm
Australia	STEL (mg/m ³)	950 mg/m ³

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n-butyl acetate (123-86-4)		
Australia	STEL (ppm)	200 ppm
USA - ACGIH	Local name	n-Butyl acetate
USA - ACGIH	ACGIH TWA (ppm)	150 ppm
USA - ACGIH	ACGIH STEL (ppm)	200 ppm
USA - ACGIH	Remark (ACGIH)	Eye & URT irr
USA - OSHA	Local name	n-Butyl-acetate
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	710 mg/m ³
USA - OSHA	OSHA PEL (TWA) (ppm)	150 ppm
4-methylpentan-2-one, isobutyl methyl ketone (108-10-1)		
EU	Local name	4-Methylpentan-2-one
EU	IOELV TWA (mg/m ³)	83 mg/m ³
EU	IOELV TWA (ppm)	20 ppm
EU	IOELV STEL (mg/m ³)	208 mg/m ³
EU	IOELV STEL (ppm)	50 ppm
Austria	Local name	4-Methylpentanon-2
Austria	MAK (mg/m ³)	83 mg/m ³
Austria	MAK (ppm)	20 ppm
Austria	MAK Short time value (mg/m ³)	208 mg/m ³
Austria	MAK Short time value (ppm)	50 ppm
Austria	Remark (AT)	H
Belgium	Local name	4-Méthyl-2-pentanone
Belgium	Limit value (mg/m ³)	83 mg/m ³
Belgium	Limit value (ppm)	20 ppm
Belgium	Short time value (mg/m ³)	208 mg/m ³
Belgium	Short time value (ppm)	50 ppm
Bulgaria	Local name	Метилизобутилкетон (4-метил - пентан-2-ОН)•
Bulgaria	OEL TWA (mg/m ³)	50 mg/m ³
Bulgaria	OEL STEL (mg/m ³)	200 mg/m ³
Croatia	Local name	4-Metil-pentan-2-on; (izobutil-metil-keton)
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	83 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (ppm)	20 ppm
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³)	208 mg/m ³
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	50 ppm
Croatia	Naznake (HR)	K, EU* F, Xn
Czech Republic	Local name	4-Methyl-2-pentanon
Czech Republic	Expoziční limity (PEL) (mg/m ³)	80 mg/m ³
Czech Republic	Expoziční limity (PEL) (ppm)	19.5 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m ³)	200 mg/m ³
Czech Republic	Expoziční limity (NPK-P) (ppm)	49 ppm
Czech Republic	Remark (CZ)	D
Denmark	Local name	Methylisobutylketon (2002)
Denmark	Grænseværdie (langvarig) (mg/m ³)	83 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	20 ppm
Denmark	Anmærkninger (DK)	EH
Estonia	Local name	4-metüül-2-pentanoon (metüülisobutüülketoon)
Estonia	OEL TWA (mg/m ³)	83 mg/m ³
Estonia	OEL TWA (ppm)	20 ppm
Estonia	OEL STEL (mg/m ³)	208 mg/m ³
Estonia	OEL STEL (ppm)	50 ppm
Finland	Local name	4-Metyyli-2-pentanoni
Finland	HTP-arvo (8h) (mg/m ³)	80 mg/m ³
Finland	HTP-arvo (8h) (ppm)	20 ppm

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4-methylpentan-2-one, isobutyl methyl ketone (108-10-1)		
Finland	HTP-arvo (15 min)	210 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	50 ppm
France	Local name	Méthylisobutylcétone
France	VME (mg/m ³)	83 mg/m ³
France	VME (ppm)	20 ppm
France	VLE (mg/m ³)	208 mg/m ³
France	VLE (ppm)	50 ppm
Germany	Local name	4-Methylpentan-2-on
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	83 mg/m ³
Germany	TRGS 900 Occupational exposure limit value (ppm)	20 ppm
Germany	Remark (TRGS 900)	DFG,EU,H,Y
Greece	OEL TWA (mg/m ³)	410 mg/m ³
Greece	OEL TWA (ppm)	100 ppm
Greece	OEL STEL (mg/m ³)	410 mg/m ³
Greece	OEL STEL (ppm)	100 ppm
Hungary	Local name	4-METILPENTÁN-2-ON (Izobutil-metil-ke-ton)
Hungary	AK-érték	83 mg/m ³
Hungary	CK-érték	208 mg/m ³
Hungary	Megjegyzések (HU)	EU1
Ireland	Local name	Methyl isobutyl ketone (MIBK)
Ireland	OEL (8 hours ref) (mg/m ³)	83 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	20 ppm
Ireland	OEL (15 min ref) (mg/m ³)	208 mg/m ³
Ireland	OEL (15 min ref) (ppm)	50 ppm
Ireland	Notes (IE)	Sk, IOELV
Italy	Local name	Metilpentan-2-one,4-
Italy	OEL TWA (mg/m ³)	83 mg/m ³
Italy	OEL TWA (ppm)	20 ppm
Italy	OEL STEL (mg/m ³)	208 mg/m ³
Italy	OEL STEL (ppm)	50 ppm
Lithuania	Local name	Metilizobutilketonas (MIBK) (4-metilpentanonas-2)
Lithuania	IPRV (mg/m ³)	83 mg/m ³
Lithuania	IPRV (ppm)	20 ppm
Lithuania	TPRV (mg/m ³)	208 mg/m ³
Lithuania	TPRV (ppm)	50 ppm
Luxembourg	Local name	4-Méthylpentane-2-one
Luxembourg	OEL TWA (mg/m ³)	83 mg/m ³
Luxembourg	OEL TWA (ppm)	20 ppm
Luxembourg	OEL STEL (mg/m ³)	208 mg/m ³
Luxembourg	OEL STEL (ppm)	50 ppm
Malta	Local name	4-Methylpentan-2-one
Malta	OEL TWA (mg/m ³)	83 mg/m ³
Malta	OEL TWA (ppm)	20 ppm
Malta	OEL STEL (mg/m ³)	208 mg/m ³
Malta	OEL STEL (ppm)	50 ppm
Netherlands	Local name	4-Methyl-2-pentanon
Netherlands	Grenswaarde TGG 8H (mg/m ³)	104 mg/m ³
Netherlands	Grenswaarde TGG 15MIN (mg/m ³)	208 mg/m ³
Poland	Local name	4-Metylopentan-2-on (metyloizobutyloketon,heks-on)
Poland	NDS (mg/m ³)	83 mg/m ³
Poland	NDSCh (mg/m ³)	200 mg/m ³

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4-methylpentan-2-one, isobutyl methyl ketone (108-10-1)		
Portugal	Local name	Metilisobutilcetona (MIBK)
Portugal	OEL TWA (ppm)	50 ppm
Portugal	OEL STEL (ppm)	75 ppm
Slovenia	Local name	4-metilpentan-2-on (metilizobutilketon)
Slovenia	OEL TWA (mg/m ³)	83 mg/m ³
Slovenia	OEL TWA (ppm)	20 ppm
Slovenia	OEL STEL (mg/m ³)	207.5 mg/m ³
Slovenia	OEL STEL (ppm)	50 ppm
Spain	Local name	Metilisobutilcetona
Spain	VLA-ED (mg/m ³)	83 mg/m ³
Spain	VLA-ED (ppm)	20 ppm
Spain	VLA-EC (mg/m ³)	208 mg/m ³
Spain	VLA-EC (ppm)	50 ppm
Spain	Notes	VLB®, VLI
Sweden	Local name	Methyl isobutyl ketone
Sweden	nivågränsvärde (NVG) (mg/m ³)	100 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	25 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	200 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	50 ppm
United Kingdom	Local name	4-Methylpentan-2-one
United Kingdom	WEL TWA (mg/m ³)	208 mg/m ³
United Kingdom	WEL TWA (ppm)	50 ppm
United Kingdom	WEL STEL (mg/m ³)	416 mg/m ³
United Kingdom	WEL STEL (ppm)	100 ppm
United Kingdom	Remark (WEL)	Sk, BMGV
Norway	Local name	4-Metylpentan-2-on
Norway	Gjennomsnittsverdier (AN) (mg/m ³)	105 mg/m ³
Norway	Gjennomsnittsverdier (AN) (ppm)	25 ppm
Norway	Merknader (NO)	H
Switzerland	Local name	4-Méthylpentane-2-one
Switzerland	VME (mg/m ³)	82 mg/m ³
Switzerland	VME (ppm)	20 ppm
Switzerland	VLE (mg/m ³)	164 mg/m ³
Switzerland	VLE (ppm)	40 ppm
Switzerland	Remark (CH)	4x15
Australia	Local name	Methyl isobutyl ketone
Australia	TWA (mg/m ³)	205 mg/m ³
Australia	TWA (ppm)	50 ppm
Australia	STEL (mg/m ³)	307 mg/m ³
Australia	STEL (ppm)	75 ppm
USA - ACGIH	Local name	Methyl isobutyl ketone
USA - ACGIH	ACGIH TWA (ppm)	20 ppm
USA - ACGIH	ACGIH STEL (ppm)	75 ppm
USA - ACGIH	Remark (ACGIH)	URT irr; dizziness; headache
USA - OSHA	Local name	Hexone (Methyl isobutyl ketone)
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	410 mg/m ³
USA - OSHA	OSHA PEL (TWA) (ppm)	100 ppm
2-methoxy-1-methylethyl acetate (108-65-6)		
EU	Local name	2-Methoxy-1-methylethylacetate
EU	IOELV TWA (mg/m ³)	275 mg/m ³
EU	IOELV TWA (ppm)	50 ppm
EU	IOELV STEL (mg/m ³)	550 mg/m ³
EU	IOELV STEL (ppm)	100 ppm
EU	Notes	Skin

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2-methoxy-1-methylethyl acetate (108-65-6)		
Austria	Local name	1-Methoxypropylacetat-2
Austria	MAK (mg/m ³)	275 mg/m ³
Austria	MAK (ppm)	50 ppm
Austria	MAK Short time value (mg/m ³)	550 mg/m ³
Austria	MAK Short time value (ppm)	100 ppm
Austria	Remark (AT)	H
Belgium	Local name	Acétate de 2-(1-méthoxy)propyle
Belgium	Limit value (mg/m ³)	275 mg/m ³
Belgium	Limit value (ppm)	50 ppm
Belgium	Short time value (mg/m ³)	550 mg/m ³
Belgium	Short time value (ppm)	100 ppm
Belgium	Remark (BE)	D
Bulgaria	Local name	2-Метокси-1-метилетилацетат*
Bulgaria	OEL TWA (mg/m ³)	275 mg/m ³
Bulgaria	OEL STEL (mg/m ³)	550 mg/m ³
Croatia	Local name	2-Metoksi-1-metil-etil-acetat
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	275 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (ppm)	50 ppm
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³)	550 mg/m ³
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	100 ppm
Croatia	Naznake (HR)	K, EU* Xi
Czech Republic	Local name	2-Methoxy-1-methylethylacetát
Czech Republic	Expoziční limity (PEL) (mg/m ³)	270 mg/m ³
Czech Republic	Expoziční limity (PEL) (ppm)	50 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m ³)	550 mg/m ³
Czech Republic	Expoziční limity (NPK-P) (ppm)	101.8 ppm
Czech Republic	Remark (CZ)	D
Denmark	Local name	2-Methoxy-1-methylethylacetat (2002)
Denmark	Grænseværdie (langvarig) (mg/m ³)	275 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	50 ppm
Denmark	Anmærkninger (DK)	EH
Estonia	Local name	Propüleenglükool-monometüüleeter-atsetaat (o-atsüül-o-metüülpropüleen-glükool, metoksüpropüülatsetaat)
Estonia	OEL TWA (mg/m ³)	275 mg/m ³
Estonia	OEL TWA (ppm)	50 ppm
Estonia	OEL STEL (mg/m ³)	550 mg/m ³
Estonia	OEL STEL (ppm)	100 ppm
Finland	Local name	2-Metoksi-1- metyyl dietyyliasetti
Finland	HTP-arvo (8h) (mg/m ³)	270 mg/m ³
Finland	HTP-arvo (8h) (ppm)	50 ppm
Finland	HTP-arvo (15 min)	550 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	100 ppm
France	Local name	Acétate de 2-méthoxy-1-méthyléthyle
France	VME (mg/m ³)	275 mg/m ³
France	VME (ppm)	50 ppm
France	VLE (mg/m ³)	550 mg/m ³
France	VLE (ppm)	100 ppm
Germany	Local name	2-Methoxy-1-methylethylacetat
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	270 mg/m ³
Germany	TRGS 900 Occupational exposure limit value (ppm)	50 ppm
Germany	Remark (TRGS 900)	DFG,EU,Y
Greece	OEL TWA (mg/m ³)	275 mg/m ³

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2-methoxy-1-methylethyl acetate (108-65-6)		
Greece	OEL TWA (ppm)	50 ppm
Greece	OEL STEL (mg/m ³)	550 mg/m ³
Greece	OEL STEL (ppm)	100 ppm
Hungary	Local name	1-METOXI-2-PROPIL-ACETÁT
Hungary	AK-érték	275 mg/m ³
Hungary	CK-érték	550 mg/m ³
Hungary	Megjegyzések (HU)	EU1
Ireland	Local name	2-Methoxy-1-methylethylacetate
Ireland	OEL (8 hours ref) (mg/m ³)	275 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	50 ppm
Ireland	OEL (15 min ref) (mg/m ³)	550 mg/m ³
Ireland	OEL (15 min ref) (ppm)	100 ppm
Ireland	Notes (IE)	Sk, IOELV
Italy	Local name	2-Metossi-1-metiletilacetato
Italy	OEL TWA (mg/m ³)	275 mg/m ³
Italy	OEL TWA (ppm)	50 ppm
Italy	OEL STEL (mg/m ³)	550 mg/m ³
Italy	OEL STEL (ppm)	100 ppm
Lithuania	Local name	1-metoksi-2-propilacetatas (propilenglikolio monometilo eterio acetatas, PGMEA)
Lithuania	IPRV (mg/m ³)	250 mg/m ³
Lithuania	IPRV (ppm)	50 ppm
Lithuania	TPRV (mg/m ³)	400 mg/m ³
Lithuania	TPRV (ppm)	75 ppm
Lithuania	Remark (LT)	O
Luxembourg	Local name	Acétate de 2-méthoxy-1-méthyléthyle
Luxembourg	OEL TWA (mg/m ³)	275 mg/m ³
Luxembourg	OEL TWA (ppm)	50 ppm
Luxembourg	OEL STEL (mg/m ³)	550 mg/m ³
Luxembourg	OEL STEL (ppm)	100 ppm
Malta	Local name	2-Methoxy-1-methylethylacetate
Malta	OEL TWA (mg/m ³)	275 mg/m ³
Malta	OEL TWA (ppm)	50 ppm
Malta	OEL STEL (mg/m ³)	550 mg/m ³
Malta	OEL STEL (ppm)	100 ppm
Netherlands	Local name	1-Methoxy-2-propylacetaat
Netherlands	Grenswaarde TGG 8H (mg/m ³)	550 mg/m ³
Poland	Local name	Octan 2-metoksy-1-metyloetylu
Poland	NDS (mg/m ³)	260 mg/m ³
Poland	NDSch (mg/m ³)	520 mg/m ³
Romania	Local name	Acetat de 2-metoxi-1 metiletil
Romania	OEL TWA (mg/m ³)	275 mg/m ³
Romania	OEL TWA (ppm)	50 ppm
Romania	OEL STEL (mg/m ³)	550 mg/m ³
Romania	OEL STEL (ppm)	100 ppm
Slovenia	Local name	2-metoksi-1-metiletilacetat
Slovenia	OEL TWA (mg/m ³)	275 mg/m ³
Slovenia	OEL TWA (ppm)	50 ppm
Slovenia	OEL STEL (mg/m ³)	550 mg/m ³
Slovenia	OEL STEL (ppm)	100 ppm

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2-methoxy-1-methylethyl acetate (108-65-6)		
Sweden	Local name	1-Methoxy-2-propyl acetate
Sweden	nivågränsvärde (NVG) (mg/m ³)	250 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	50 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	400 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	75 ppm
United Kingdom	Local name	1-Methoxypropyl acetate
United Kingdom	WEL TWA (mg/m ³)	274 mg/m ³
United Kingdom	WEL TWA (ppm)	50 ppm
United Kingdom	WEL STEL (mg/m ³)	548 mg/m ³
United Kingdom	WEL STEL (ppm)	100 ppm
United Kingdom	Remark (WEL)	Sk
Iceland	Local name	2-Metoxý-1-metýletýlasetat
Iceland	OEL (8 hours ref) (mg/m ³)	275 mg/m ³
Iceland	OEL (8 hours ref) (ppm)	50 ppm
Iceland	OEL (15 min ref) (mg/m ³)	550 mg/m ³
Iceland	OEL (15 min ref) (ppm)	100 ppm
Iceland	Notes (IS)	H
Norway	Local name	1-Metoksy-2-propylacetat .
Norway	Gjennomsnittsverdier (AN) (mg/m ³)	270 mg/m ³
Norway	Gjennomsnittsverdier (AN) (ppm)	50 ppm
Norway	Merknader (NO)	H
Switzerland	Local name	1-Méthoxypropylacétate-2
Switzerland	VME (mg/m ³)	275 mg/m ³
Switzerland	VME (ppm)	50 ppm
Switzerland	VLE (mg/m ³)	275 mg/m ³
Switzerland	VLE (ppm)	50 ppm
Switzerland	Remark (CH)	15 min
Australia	Local name	1-Methoxy-2-propanol acetate
Australia	TWA (mg/m ³)	274 mg/m ³
Australia	TWA (ppm)	50 ppm
Australia	STEL (mg/m ³)	548 mg/m ³
Australia	STEL (ppm)	100 ppm
xylene (1330-20-7)		
EU	Local name	Xylene, mixed isomers, pure
EU	IOELV TWA (mg/m ³)	221 mg/m ³
EU	IOELV TWA (ppm)	50 ppm
EU	IOELV STEL (mg/m ³)	442 mg/m ³
EU	IOELV STEL (ppm)	100 ppm
EU	Notes	Skin
Austria	Local name	Xylol (alle Isomeren)
Austria	MAK (mg/m ³)	221 mg/m ³
Austria	MAK (ppm)	50 ppm
Austria	MAK Short time value (mg/m ³)	442 mg/m ³
Austria	MAK Short time value (ppm)	100 ppm
Austria	Remark (AT)	H
Belgium	Local name	Xylène, isomères mixtes, purs
Belgium	Limit value (mg/m ³)	221 mg/m ³
Belgium	Limit value (ppm)	50 ppm
Belgium	Short time value (mg/m ³)	442 mg/m ³
Belgium	Short time value (ppm)	100 ppm
Belgium	Remark (BE)	D
Bulgaria	Local name	Ксилен (смес от изомери), чист•
Bulgaria	OEL TWA (mg/m ³)	221 mg/m ³
Bulgaria	OEL STEL (mg/m ³)	442 mg/m ³
Croatia	Local name	Ksilen (svi izomeri)

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xylene (1330-20-7)		
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	221 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (ppm)	50 ppm
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³)	442 mg/m ³
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	100 ppm
Croatia	Naznake (HR)	K, EU* K, Xn
Czech Republic	Local name	Xylen technická sm s isomer a (všechny isomery)
Czech Republic	Expoziční limity (PEL) (mg/m ³)	200 mg/m ³
Czech Republic	Expoziční limity (PEL) (ppm)	50 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m ³)	400 mg/m ³
Czech Republic	Expoziční limity (NPK-P) (ppm)	90 ppm
Czech Republic	Remark (CZ)	D
Denmark	Local name	Xylen, alle isomere (1996)
Denmark	Grænseværdie (langvarig) (mg/m ³)	109 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	25 ppm
Denmark	Anmærkninger (DK)	EH
Estonia	Local name	Ksüleen (dimetüülbenseen)
Estonia	OEL TWA (mg/m ³)	200 mg/m ³
Estonia	OEL TWA (ppm)	50 ppm
Estonia	OEL STEL (mg/m ³)	450 mg/m ³
Estonia	OEL STEL (ppm)	100 ppm
Finland	Local name	Ksyleeni
Finland	HTP-arvo (8h) (mg/m ³)	220 mg/m ³
Finland	HTP-arvo (8h) (ppm)	50 ppm
Finland	HTP-arvo (15 min)	440 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	100 ppm
France	Local name	Xylène, isomères mixtes, purs
France	VME (mg/m ³)	221 mg/m ³
France	VME (ppm)	50 ppm
France	VLE (mg/m ³)	442 mg/m ³
France	VLE (ppm)	100 ppm
Germany	Local name	Xylol(allelsomeren)
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	440 mg/m ³
Germany	TRGS 900 Occupational exposure limit value (ppm)	100 ppm
Germany	Remark (TRGS 900)	DFG,EU,H
Greece	OEL TWA (mg/m ³)	435 mg/m ³
Greece	OEL TWA (ppm)	100 ppm
Greece	OEL STEL (mg/m ³)	650 mg/m ³
Greece	OEL STEL (ppm)	150 ppm
Hungary	Local name	XILOL(ok)
Hungary	AK-érték	221 mg/m ³
Hungary	CK-érték	442 mg/m ³
Hungary	Megjegyzések (HU)	b; EU1
Ireland	Local name	Xylene, mixed isomers
Ireland	OEL (8 hours ref) (mg/m ³)	221 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	50 ppm
Ireland	OEL (15 min ref) (mg/m ³)	442 mg/m ³
Ireland	OEL (15 min ref) (ppm)	100 ppm
Ireland	Notes (IE)	Sk, IOELV
Italy	Local name	Xilene, isomeri misti, puro

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xylene (1330-20-7)		
Italy	OEL TWA (mg/m ³)	221 mg/m ³
Italy	OEL TWA (ppm)	50 ppm
Italy	OEL STEL (mg/m ³)	442 mg/m ³
Italy	OEL STEL (ppm)	100 ppm
Lithuania	Local name	Ksilenas
Lithuania	IPRV (mg/m ³)	200 mg/m ³
Lithuania	IPRV (ppm)	50 ppm
Lithuania	TPRV (mg/m ³)	450 mg/m ³
Lithuania	TPRV (ppm)	100 ppm
Lithuania	Remark (LT)	O
Luxembourg	Local name	Xylène, isomères mixtes, purs
Luxembourg	OEL TWA (mg/m ³)	221 mg/m ³
Luxembourg	OEL TWA (ppm)	50 ppm
Luxembourg	OEL STEL (mg/m ³)	442 mg/m ³
Luxembourg	OEL STEL (ppm)	100 ppm
Malta	Local name	Xylene, mixed isomers, pure
Malta	OEL TWA (mg/m ³)	221 mg/m ³
Malta	OEL TWA (ppm)	50 ppm
Malta	OEL STEL (mg/m ³)	442 mg/m ³
Malta	OEL STEL (ppm)	100 ppm
Netherlands	Local name	Xyleen, o-, m-, p-isomeren
Netherlands	Grenswaarde TGG 8H (mg/m ³)	210 mg/m ³
Netherlands	Grenswaarde TGG 15MIN (mg/m ³)	442 mg/m ³
Netherlands	Remark (MAC)	H
Poland	Local name	Ksilen mieszanina izomerów: 1,2-; 1,3-; 1,4-
Poland	NDS (mg/m ³)	100 mg/m ³
Portugal	Local name	Xileno (isómeros)
Portugal	OEL TWA (ppm)	100 ppm
Portugal	OEL STEL (ppm)	150 ppm
Romania	Local name	Xilen (izomeri)
Romania	OEL TWA (mg/m ³)	221 mg/m ³
Romania	OEL TWA (ppm)	50 ppm
Romania	OEL STEL (mg/m ³)	442 mg/m ³
Romania	OEL STEL (ppm)	100 ppm
Slovenia	Local name	ksilen (mešane izomere)
Slovenia	OEL TWA (mg/m ³)	221 mg/m ³
Slovenia	OEL TWA (ppm)	50 ppm
Slovenia	OEL STEL (mg/m ³)	442 mg/m ³
Slovenia	OEL STEL (ppm)	100 ppm
Spain	Local name	Xilenos, mezcla isómeros
Spain	VLA-ED (mg/m ³)	221 mg/m ³
Spain	VLA-ED (ppm)	50 ppm
Spain	VLA-EC (mg/m ³)	442 mg/m ³
Spain	VLA-EC (ppm)	100 ppm
Spain	Notes	vía dérmica, VLB®, VLI
Sweden	Local name	Xylene
Sweden	nivågränsvärde (NVG) (mg/m ³)	200 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	50 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	450 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	100 ppm
United Kingdom	Local name	Xylene, o-,m-,p- or mixed isomers
United Kingdom	WEL TWA (mg/m ³)	220 mg/m ³

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xylene (1330-20-7)		
United Kingdom	WEL TWA (ppm)	50 ppm
United Kingdom	WEL STEL (mg/m ³)	441 mg/m ³
United Kingdom	WEL STEL (ppm)	100 ppm
United Kingdom	Remark (WEL)	Sk, BMGV
Norway	Local name	Xylen (alle isomere)
Norway	Gjennomsnittsverdier (AN) (mg/m ³)	108 mg/m ³
Norway	Gjennomsnittsverdier (AN) (ppm)	25 ppm
Norway	Merknader (NO)	H
Switzerland	Local name	Xylène (tous les isomères)
Switzerland	VME (mg/m ³)	435 mg/m ³
Switzerland	VME (ppm)	100 ppm
Switzerland	VLE (mg/m ³)	870 mg/m ³
Switzerland	VLE (ppm)	200 ppm
Switzerland	Remark (CH)	4x15
USA - ACGIH	Local name	Xylene
USA - ACGIH	ACGIH TWA (ppm)	100 ppm
USA - ACGIH	ACGIH STEL (ppm)	150 ppm
USA - ACGIH	Remark (ACGIH)	URT & eye irr; CNS impair
USA - OSHA	Local name	Xylenes (o-, m-, p-isomers)
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	435 mg/m ³
USA - OSHA	OSHA PEL (TWA) (ppm)	100 ppm
2-butoxyethyl acetate, butylglycol acetate (112-07-2)		
EU	Local name	2-Butoxyethyl acetate
EU	IOELV TWA (mg/m ³)	133 mg/m ³
EU	IOELV TWA (ppm)	20 ppm
EU	IOELV STEL (mg/m ³)	333 mg/m ³
EU	IOELV STEL (ppm)	50 ppm
EU	Notes	Skin
Austria	Local name	2-Butoxyethylacetat
Austria	MAK (mg/m ³)	133 mg/m ³
Austria	MAK (ppm)	20 ppm
Austria	MAK Short time value (mg/m ³)	270 mg/m ³
Austria	MAK Short time value (ppm)	40 ppm
Austria	Remark (AT)	H
Belgium	Local name	Acétate de 2-butoxyéthyle
Belgium	Limit value (mg/m ³)	133 mg/m ³
Belgium	Limit value (ppm)	20 ppm
Belgium	Short time value (mg/m ³)	333 mg/m ³
Belgium	Short time value (ppm)	50 ppm
Belgium	Remark (BE)	D
Bulgaria	Local name	2-Бутоксиетилацетат*
Bulgaria	OEL TWA (mg/m ³)	133 mg/m ³
Bulgaria	OEL STEL (mg/m ³)	333 mg/m ³
Croatia	Local name	2-Butoksietil-acetat; (Butil-glikol-acetat)
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	133 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (ppm)	20 ppm
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³)	333 mg/m ³
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	50 ppm
Croatia	Naznake (HR)	K, EU* Xn
Czech Republic	Local name	2-Butoxyethylacetát
Czech Republic	Expoziční limity (PEL) (mg/m ³)	130 mg/m ³
Czech Republic	Expoziční limity (PEL) (ppm)	19.9 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m ³)	300 mg/m ³
Czech Republic	Expoziční limity (NPK-P) (ppm)	46 ppm

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2-butoxyethyl acetate, butylglycol acetate (112-07-2)		
Czech Republic	Remark (CZ)	D
Denmark	Local name	Butylglycolacetat (2000)
Denmark	Grænseværdie (langvarig) (mg/m ³)	130 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	20 ppm
Denmark	Anmærkninger (DK)	EH
Finland	Local name	2-Butoksietyyliasettaatti
Finland	HTP-arvo (8h) (mg/m ³)	130 mg/m ³
Finland	HTP-arvo (8h) (ppm)	20 ppm
Finland	HTP-arvo (15 min)	330 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	50 ppm
France	Local name	Acétate de 2-butoxyéthyle
France	VME (mg/m ³)	13.3 mg/m ³
France	VME (ppm)	2 ppm
France	VLE (mg/m ³)	199.8 mg/m ³
France	VLE (ppm)	30 ppm
Germany	Local name	2-Butoxyethyl-acetat
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	130 mg/m ³
Germany	TRGS 900 Occupational exposure limit value (ppm)	20 ppm
Germany	Remark (TRGS 900)	DFG,EU,H,Y
Greece	OEL TWA (mg/m ³)	135 mg/m ³
Greece	OEL TWA (ppm)	20 ppm
Greece	OEL STEL (mg/m ³)	270 mg/m ³
Greece	OEL STEL (ppm)	40 ppm
Hungary	Local name	2-BUTOXIETIL-ACETÁT
Hungary	AK-érték	133 mg/m ³
Hungary	CK-érték	333 mg/m ³
Hungary	Megjegyzések (HU)	b; EU1
Ireland	Local name	2-Butoxyethyl acetate (EGBEA)
Ireland	OEL (8 hours ref) (mg/m ³)	133 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	20 ppm
Ireland	OEL (15 min ref) (mg/m ³)	333 mg/m ³
Ireland	OEL (15 min ref) (ppm)	50 ppm
Ireland	Notes (IE)	Sk, IOELV
Italy	Local name	2-Butossietilacetato
Italy	OEL TWA (mg/m ³)	133 mg/m ³
Italy	OEL TWA (ppm)	20 ppm
Italy	OEL STEL (mg/m ³)	333 mg/m ³
Italy	OEL STEL (ppm)	50 ppm
Lithuania	Local name	Etilenglikolio monobutileterio acetatas (butilo glikolio acetatas, 2-butoksietilo acetatas)
Lithuania	IPRV (mg/m ³)	70 mg/m ³
Lithuania	IPRV (ppm)	10 ppm
Lithuania	TPRV (mg/m ³)	140 mg/m ³
Lithuania	TPRV (ppm)	20 ppm
Lithuania	Remark (LT)	O
Luxembourg	Local name	Acétate de 2-butoxyéthyle
Luxembourg	OEL TWA (mg/m ³)	133 mg/m ³
Luxembourg	OEL TWA (ppm)	20 ppm
Luxembourg	OEL STEL (mg/m ³)	333 mg/m ³
Luxembourg	OEL STEL (ppm)	50 ppm

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2-butoxyethyl acetate, butylglycol acetate (112-07-2)		
Malta	Local name	2-Butoxyethyl acetate
Malta	OEL TWA (mg/m ³)	133 mg/m ³
Malta	OEL TWA (ppm)	20 ppm
Malta	OEL STEL (mg/m ³)	333 mg/m ³
Malta	OEL STEL (ppm)	50 ppm
Netherlands	Local name	2-Butoxyethylacetaat
Netherlands	Grenswaarde TGG 8H (mg/m ³)	135 mg/m ³
Netherlands	Grenswaarde TGG 15MIN (mg/m ³)	333 mg/m ³
Netherlands	Remark (MAC)	H
Poland	Local name	Octan 2-butoksyetylu
Poland	NDS (mg/m ³)	100 mg/m ³
Poland	NDSch (mg/m ³)	300 mg/m ³
Portugal	Local name	Acetato de 2 -butoxiétilo (EGBEA)
Portugal	OEL TWA (ppm)	20 ppm
Romania	Local name	Acetat de 2-butoxietil
Romania	OEL TWA (mg/m ³)	133 mg/m ³
Romania	OEL TWA (ppm)	20 ppm
Romania	OEL STEL (mg/m ³)	333 mg/m ³
Romania	OEL STEL (ppm)	50 ppm
Slovenia	Local name	2-butoksietilacetat (butilglikolacetat)
Slovenia	OEL TWA (mg/m ³)	133 mg/m ³
Slovenia	OEL TWA (ppm)	20 ppm
Slovenia	OEL STEL (mg/m ³)	332.5 mg/m ³
Slovenia	OEL STEL (ppm)	50 ppm
Sweden	Local name	Ethylene glycol butyl ether acetate
Sweden	nivågränsvärde (NVG) (mg/m ³)	70 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	10 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	140 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	20 ppm
United Kingdom	Local name	2-Butoxyethyl acetate
United Kingdom	WEL TWA (mg/m ³)	133 mg/m ³
United Kingdom	WEL TWA (ppm)	20 ppm
United Kingdom	WEL STEL (mg/m ³)	332 mg/m ³
United Kingdom	WEL STEL (ppm)	50 ppm
United Kingdom	Remark (WEL)	Sk
Iceland	Local name	2-Bútoxyetylasetat
Iceland	OEL (8 hours ref) (mg/m ³)	133 mg/m ³
Iceland	OEL (8 hours ref) (ppm)	20 ppm
Iceland	OEL (15 min ref) (mg/m ³)	333 mg/m ³
Iceland	OEL (15 min ref) (ppm)	50 ppm
Iceland	Notes (IS)	H
Norway	Local name	2-Butoksyetylacetat
Norway	Gjennomsnittsverdier (AN) (mg/m ³)	65 mg/m ³
Norway	Gjennomsnittsverdier (AN) (ppm)	10 ppm
Norway	Merknader (NO)	H
Switzerland	Local name	Acétate de 2-butoxyéthyle
Switzerland	VME (mg/m ³)	66 mg/m ³
Switzerland	VME (ppm)	10 ppm
Switzerland	VLE (mg/m ³)	132 mg/m ³
Switzerland	VLE (ppm)	20 ppm
Switzerland	Remark (CH)	4x15
Australia	Local name	2-Butoxyethyl acetate
Australia	TWA (mg/m ³)	133 mg/m ³

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2-butoxyethyl acetate, butylglycol acetate (112-07-2)

Australia	TWA (ppm)	20 ppm
Australia	STEL (mg/m ³)	333 mg/m ³
Australia	STEL (ppm)	50 ppm
USA - ACGIH	Local name	2-Butoxyethyl acetate (EGBEA)
USA - ACGIH	ACGIH TWA (ppm)	20 ppm
USA - ACGIH	Remark (ACGIH)	Hemolysis

8.2. Exposure controls

Personal protective equipment	: Avoid all unnecessary exposure.
Materials for protective clothing	: Impermeable clothing
Hand protection	: Wear protective gloves
Eye protection	: Chemical goggles or safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: Air-fed respiratory protective equipment should be worn when this product is sprayed. 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	: Liquid.
Colour	: Colourless.
Odour	: aromatic.
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	: > 35 °C
Flash point	: < 0 °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	: 0.915 - 0.95
Solubility	: insoluble in water. soluble in most organic solvents.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

VOC content	: 636 g/l
VOC content - Actual	: 486 g/l
VOC content - Regulatory	: 587 g/l

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.

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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.

ATE CLP (dermal)	1100 mg/kg bodyweight
ATE CLP (gases)	4500 ppmv/4h
ATE CLP (vapours)	11.000 mg/l/4h
ATE CLP (dust,mist)	1.500 mg/l/4h

Skin corrosion/irritation : Causes skin irritation.
Repeated exposure may cause skin dryness or cracking

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : May cause an allergic skin reaction.

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 drowsiness or dizziness.

Specific target organ toxicity (repeated exposure) : Not classified

Based on available data, the classification criteria are not met

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

Ecology - water : Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

High Solids Universal Clear E9000	
Persistence and degradability	May cause long-term adverse effects in the environment.
Solvent naphtha (petroleum), light arom.,	
Persistence and degradability	May cause long-term adverse effects in the environment.

12.3. Bioaccumulative potential

High Solids Universal Clear E9000	
Bioaccumulative potential	Not established.
Solvent naphtha (petroleum), light arom.,	
Bioaccumulative potential	Not established.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Additional information : Avoid release to the environment

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to Remove waste in accordance with local and/or national regulations.
Additional information	: Handle empty containers with care because residual vapours are flammable.
Ecology - waste materials	: Avoid release to the environment.

SECTION 14: Transport information

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

14.1. UN number

UN-No. (ADR)	: 1263
UN-No. (IMDG)	: 1263
UN-No. (IATA)	: 1263
UN-No. (ADN)	: 1263
UN-No. (RID)	: 1263

14.2. UN proper shipping name

Proper Shipping Name (ADR)	: PAINT
Proper Shipping Name (IMDG)	: PAINT
Proper Shipping Name (IATA)	: Paint
Proper Shipping Name (ADN)	: PAINT
Proper Shipping Name (RID)	: PAINT
Transport document description (ADR)	: UN 1263 PAINT, 3, II, (D/E)
Transport document description (IMDG)	: UN 1263 PAINT, 3, II

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR)	: 3
Danger labels (ADR)	: 3



IMDG

Transport hazard class(es) (IMDG)	: 3
Danger labels (IMDG)	: 3



IATA

Transport hazard class(es) (IATA)	: 3
Hazard labels (IATA)	: 3



ADN

Transport hazard class(es) (ADN)	: 3
Danger labels (ADN)	: 3

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RID

Transport hazard class(es) (RID) : 3
Danger labels (RID) : 3



14.4. Packing group

Packing group (ADR) : II
Packing group (IMDG) : II
Packing group (IATA) : II
Packing group (ADN) : II
Packing group (RID) : II

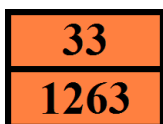
14.5. Environmental hazards

Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available

14.6. Special precautions for user

14.6.1. Overland transport

Classification code (ADR) : F1
Special provisions (ADR) : 163, 640C, 650
Limited quantities (ADR) : 5I
Excepted quantities (ADR) : E2
Packing instructions (ADR) : P001
Special packing provisions (ADR) : PP1
Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T4
Portable tank and bulk container special provisions (ADR) : TP1, TP8, TP28
Tank code (ADR) : L1.5BN
Vehicle for tank carriage : FL
Transport category (ADR) : 2
Special provisions for carriage - Operation (ADR) : S2, S20
Hazard identification number (Kemler No.) : 33
Orange plates :



Tunnel restriction code (ADR) : D/E
EAC code : •3YE

14.6.2. Transport by sea

Special provisions (IMDG) : 163
Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E2
Packing instructions (IMDG) : P001
Special packing provisions (IMDG) : PP1
IBC packing instructions (IMDG) : IBC02

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Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1, TP8, TP28
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-E
Stowage category (IMDG)	: B
Properties and observations (IMDG)	: Miscibility with water depends upon the composition.

14.6.3. Air transport

PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y341
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 353
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 364
CAO max net quantity (IATA)	: 60L
Special provisions (IATA)	: A3, A72
ERG code (IATA)	: 3L

14.6.4. Inland waterway transport

Classification code (ADN)	: F1
Special provisions (ADN)	: 163, 64C, 65
Limited quantities (ADN)	: 5 L
Excepted quantities (ADN)	: E2
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 1
Carriage prohibited (ADN)	: No
Not subject to ADN	: No

14.6.5. Rail transport

Classification code (RID)	: F1
Special provisions (RID)	: 163, 640C, 650
Limited quantities (RID)	: 5L
Excepted quantities (RID)	: E2
Packing instructions (RID)	: P001
Special packing provisions (RID)	: PP1
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T4
Portable tank and bulk container special provisions (RID)	: TP1, TP8, TP28
Tank codes for RID tanks (RID)	: L1.5BN
Transport category (RID)	: 2
Colis express (express parcels) (RID)	: CE7
Hazard identification number (RID)	: 33
Carriage prohibited (RID)	: No

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

Contains no substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances

VOC content : 636 g/l

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Seveso Information : This product is subject to the Seveso Directive

15.1.2. National regulations

Germany

Water hazard class (WGK) : 2 - hazard to waters

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-phrases:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitisation — Skin, category 1
Skin Sens. 1A	Sensitisation — Skin, category 1A
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects
R10	Flammable
R11	Highly flammable
R20	Harmful by inhalation
R20/21	Harmful by inhalation and in contact with skin
R36	Irritating to eyes
R36/37	Irritating to eyes and respiratory system
R37	Irritating to respiratory system
R38	Irritating to skin

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R43	May cause sensitisation by skin contact
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
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
N	Dangerous for the environment
Xi	Irritant
Xn	Harmful

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.