

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

### 1.1. Product identifier

<b>Trade name or designation of the mixture</b>	USC Premium Grade Lacquer Thinner
<b>Registration number</b>	-
<b>Synonyms</b>	None.
<b>Product Code</b>	115-1
<b>Issue date</b>	04-16-2015
<b>Version number</b>	01

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

<b>Identified uses</b>	Automotive Refinish Reducer/Thinner
<b>Uses advised against</b>	None known.

### 1.3. Details of the supplier of the safety data sheet

#### Supplier

<b>Company name</b>	Quest Automotive Products	
<b>Address</b>	600 Nova Drive SE Massillon, OH 44646 US	
<b>Division</b>	Massillon	
<b>Telephone</b>	General Assistance	(330) 830-6000
<b>e-mail</b>	rpandrus@quest-ap.com	
<b>Contact person</b>	Not available.	

<b>1.4. Emergency telephone number</b>	CHEMTREC	(800) 424-9300
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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

#### Classification according to Directive 67/548/EEC or 1999/45/EC as amended

**Classification** F;R11, Repr. Cat. 3;R63, T;R23/24/25-39/23/24/25, Xn;R48/20, Xi;R36/38

The full text for all R-phrases is displayed in section 16.

#### Classification according to Regulation (EC) No 1272/2008 as amended

##### Physical hazards

Flammable liquids	Category 2	H225 - Highly flammable liquid and vapor.
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##### Health hazards

Acute toxicity, oral	Category 3	H301 - Toxic if swallowed.
Acute toxicity, dermal	Category 3	H311 - Toxic in contact with skin.
Acute toxicity, inhalation	Category 3	H331 - Toxic if inhaled.
Skin corrosion/irritation	Category 2	H315 - Causes skin irritation.
Serious eye damage/eye irritation	Category 1	H318 - Causes serious eye damage.
Reproductive toxicity (the unborn child)	Category 2	H361d - Suspected of damaging the unborn child.
Specific target organ toxicity - single exposure	Category 1	H370 - Causes damage to organs.
Specific target organ toxicity - single exposure	Category 3 narcotic effects	H336 - May cause drowsiness or dizziness.
Specific target organ toxicity - repeated exposure	Category 2	H373 - May cause damage to organs through prolonged or repeated exposure.

**Environmental hazards**

Hazardous to the aquatic environment,  
long-term aquatic hazard

Category 2

H411 - Toxic to aquatic life with  
long lasting effects.

**Hazard summary****Physical hazards**

Highly flammable.

**Health hazards**

Toxic by inhalation, in contact with skin and if swallowed. Irritating to eyes and skin. Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Possible risk of harm to the unborn child. Occupational exposure to the substance or mixture may cause adverse health effects.

**Environmental hazards**

Not classified for hazards to the environment.

**Specific hazards**

Prolonged exposure may cause chronic effects.

**Main symptoms**

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.

**2.2. Label elements****Label according to Regulation (EC) No. 1272/2008 as amended****Contains:**

1-Propanol, 2-butanone, 2-Butoxyethanol, 2-Heptanone, acetone, ethyl acetate, methanol, n-PROPYL ACETATE, Toluene, Xylene

**Hazard pictograms****Signal word**

Danger

**Hazard statements**

H225	Highly flammable liquid and vapor.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H370	Causes damage to organs.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

**Precautionary statements****Prevention**

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe mist or vapor.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

**Response**

P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
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.
P310	Immediately call a POISON CENTER/doctor.
P330	Rinse mouth.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P361 + P364	Take off immediately all contaminated clothing and wash it before reuse.
P370 + P378	In case of fire: Use appropriate media to extinguish.

P391 Collect spillage.

#### Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P403 + P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.

#### Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Supplemental label information** 15,58% of the mixture consists of component(s) of unknown acute dermal toxicity. 39,5% of the mixture consists of component(s) of unknown acute inhalation toxicity. 54,32% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

**2.3. Other hazards** None known.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
methanol	30 - < 40	67-56-1 200-659-6	-	603-001-00-X	#
<b>Classification:</b>	<b>DSD:</b> F;R11, T;R23/24/25-39/23/24/25				
	<b>CLP:</b> -				
Toluene	20 - < 30	108-88-3 203-625-9	-	601-021-00-3	#
<b>Classification:</b>	<b>DSD:</b> F;R11, Repr. Cat. 3;R63, Xn;R65-48/20, Xi;R38, R67				
	<b>CLP:</b> Flam. Liq. 2;H225, Asp. Tox. 1;H304, Skin Irrit. 2;H315, STOT SE 3;H336, Repr. 2;H361d, STOT RE 2;H373, Aquatic Chronic 2;H411				
acetone	10 - < 20	67-64-1 200-662-2	-	606-001-00-8	#
<b>Classification:</b>	<b>DSD:</b> F;R11, Xi;R36, R66-67				
	<b>CLP:</b> -				
1-Propanol	3 - < 5	71-23-8 200-746-9	-	603-003-00-0	
<b>Classification:</b>	<b>DSD:</b> F;R11, Xi;R41, R67				
	<b>CLP:</b> -				
2-butanone	3 - < 5	78-93-3 201-159-0	-	606-002-00-3	#
<b>Classification:</b>	<b>DSD:</b> F;R11, Xi;R36, R66-67				
	<b>CLP:</b> -				
2-Heptanone	3 - < 5	110-43-0 203-767-1	-	606-024-00-3	#
<b>Classification:</b>	<b>DSD:</b> R10, Xn;R20/22				
	<b>CLP:</b> -				
Ethanol	3 - < 5	64-17-5 200-578-6	-	603-002-00-5	
<b>Classification:</b>	<b>DSD:</b> F;R11, Xi;R36				
	<b>CLP:</b> -				

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
ethyl acetate	3 - < 5	141-78-6 205-500-4	-	607-022-00-5	
<b>Classification:</b>	<b>DSD:</b> F;R11, Xi;R36, R66-67				
	<b>CLP:</b> -				
n-PROPYL ACETATE	3 - < 5	109-60-4 203-686-1	-	607-024-00-6	
<b>Classification:</b>	<b>DSD:</b> F;R11, Xi;R36, R66-67				C
	<b>CLP:</b> -				C
Xylene	3 - < 5	1330-20-7 215-535-7	-	601-022-00-9	#
<b>Classification:</b>	<b>DSD:</b> R10, Xn;R20/21, Xi;R38				C
	<b>CLP:</b> Flam. Liq. 3;H226, Acute Tox. 4;H312, Skin Irrit. 2;H315, Acute Tox. 4;H332, Aquatic Chronic 2;H411				C
2-Butoxyethanol	1 - < 3	111-76-2 203-905-0	-	603-014-00-0	#
<b>Classification:</b>	<b>DSD:</b> Xn;R20/21/22, Xi;R36/38				
	<b>CLP:</b> -				
Ethyl benzene	< 1	100-41-4 202-849-4	-	601-023-00-4	#
<b>Classification:</b>	<b>DSD:</b> F;R11, Xn;R20				
	<b>CLP:</b> Flam. Liq. 2;H225, Asp. Tox. 1;H304, Acute Tox. 4;H332, Carc. 2;H351, STOT RE 2;H373, Aquatic Chronic 2;H411				

Other components below reportable levels < 0,1

#### List of abbreviations and symbols that may be used above

CLP: Regulation No. 1272/2008.

DSD: Directive 67/548/EEC.

M: M-factor

vPvB: very persistent and very bioaccumulative substance.

PBT: persistent, bioaccumulative and toxic substance.

#: This substance has been assigned Community workplace exposure limit(s).

**Composition comments** The full text for all R- and H-phrases is displayed in section 16.

## SECTION 4: First aid measures

<b>General information</b>	Take off immediately all contaminated clothing. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.
<b>4.1. Description of first aid measures</b>	
<b>Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a POISON CENTER or doctor/physician.
<b>Skin contact</b>	Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical advice/attention if you feel unwell. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
<b>Eye contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
<b>Ingestion</b>	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

<b>4.2. Most important symptoms and effects, both acute and delayed</b>	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.
<b>4.3. Indication of any immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

## SECTION 5: Firefighting measures

<b>General fire hazards</b>	Highly flammable liquid and vapor.
<b>5.1. Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>5.2. Special hazards arising from the substance or mixture</b>	Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.
<b>5.3. Advice for firefighters</b>	
<b>Special protective equipment for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Special fire fighting procedures</b>	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.

## SECTION 6: Accidental release measures

<b>6.1. Personal precautions, protective equipment and emergency procedures</b>	
<b>For non-emergency personnel</b>	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
<b>For emergency responders</b>	Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Use personal protection recommended in Section 8 of the SDS.
<b>6.2. Environmental precautions</b>	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.
<b>6.3. Methods and material for containment and cleaning up</b>	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material.  Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.  Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.  Never return spills to original containers for re-use.
<b>6.4. Reference to other sections</b>	For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

## SECTION 7: Handling and storage

<b>7.1. Precautions for safe handling</b>	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.
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**7.2. Conditions for safe storage, including any incompatibilities**

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

**7.3. Specific end use(s)**

Not available.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Occupational exposure limits**

**Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001**

<b>Components</b>	<b>Type</b>	<b>Value</b>
1-Propanol (CAS 71-23-8)	MAK	500 mg/m <sup>3</sup>
		200 ppm
2-butanone (CAS 78-93-3)	MAK	295 mg/m <sup>3</sup>
		100 ppm
		590 mg/m <sup>3</sup>
2-Butoxyethanol (CAS 111-76-2)	MAK	200 ppm
		98 mg/m <sup>3</sup>
		20 ppm
2-Heptanone (CAS 110-43-0)	MAK	200 mg/m <sup>3</sup>
		40 ppm
		237 mg/m <sup>3</sup>
acetone (CAS 67-64-1)	MAK	50 ppm
		473 mg/m <sup>3</sup>
		100 ppm
Ethanol (CAS 64-17-5)	MAK	1200 mg/m <sup>3</sup>
		500 ppm
		4800 mg/m <sup>3</sup>
ethyl acetate (CAS 141-78-6)	Ceiling	2000 ppm
		3800 mg/m <sup>3</sup>
		2000 ppm
Ethyl benzene (CAS 100-41-4)	MAK	1900 mg/m <sup>3</sup>
		1000 ppm
		2100 mg/m <sup>3</sup>
methanol (CAS 67-56-1)	Ceiling	600 ppm
		1050 mg/m <sup>3</sup>
		300 ppm
n-PROPYL ACETATE (CAS 109-60-4)	Ceiling	880 mg/m <sup>3</sup>
		200 ppm
		440 mg/m <sup>3</sup>
Toluene (CAS 108-88-3)	MAK	100 ppm
		260 mg/m <sup>3</sup>
		200 ppm
Xylene (CAS 1330-20-7)	MAK	1040 mg/m <sup>3</sup>
		800 ppm
		420 mg/m <sup>3</sup>
Xylene (CAS 1330-20-7)	MAK	100 ppm
		420 mg/m <sup>3</sup>
		100 ppm
Xylene (CAS 1330-20-7)	MAK	190 mg/m <sup>3</sup>
		50 ppm
		380 mg/m <sup>3</sup>
Xylene (CAS 1330-20-7)	MAK	100 ppm
		221 mg/m <sup>3</sup>
		50 ppm
Xylene (CAS 1330-20-7)	MAK	442 mg/m <sup>3</sup>
		100 ppm
		100 ppm

**Belgium. Exposure Limit Values.**

<b>Components</b>	<b>Type</b>	<b>Value</b>
1-Propanol (CAS 71-23-8)	TWA	250 mg/m3 100 ppm
	STEL	900 mg/m3 300 ppm
2-butanone (CAS 78-93-3)	TWA	600 mg/m3 200 ppm
	STEL	246 mg/m3 50 ppm
2-Butoxyethanol (CAS 111-76-2)	TWA	98 mg/m3 20 ppm
	STEL	475 mg/m3 100 ppm
2-Heptanone (CAS 110-43-0)	TWA	238 mg/m3 50 ppm
	STEL	2420 mg/m3 1000 ppm
acetone (CAS 67-64-1)	TWA	1210 mg/m3 500 ppm
	STEL	1907 mg/m3 1000 ppm
Ethanol (CAS 64-17-5)	TWA	1461 mg/m3 400 ppm
ethyl acetate (CAS 141-78-6)	TWA	551 mg/m3 125 ppm
Ethyl benzene (CAS 100-41-4)	TWA	442 mg/m3 100 ppm
	STEL	333 mg/m3 250 ppm
methanol (CAS 67-56-1)	TWA	266 mg/m3 200 ppm
	STEL	1055 mg/m3 250 ppm
n-PROPYL ACETATE (CAS 109-60-4)	TWA	847 mg/m3 200 ppm
	STEL	384 mg/m3 100 ppm
Toluene (CAS 108-88-3)	TWA	77 mg/m3 20 ppm
	STEL	442 mg/m3 100 ppm
Xylene (CAS 1330-20-7)	TWA	221 mg/m3 50 ppm
	STEL	

**Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work**

<b>Components</b>	<b>Type</b>	<b>Value</b>
1-Propanol (CAS 71-23-8)	STEL	500 mg/m3
	TWA	300 mg/m3
2-butanone (CAS 78-93-3)	STEL	885 mg/m3
	TWA	590 mg/m3
2-Butoxyethanol (CAS 111-76-2)	STEL	246 mg/m3 50 ppm
	TWA	98 mg/m3 20 ppm
2-Heptanone (CAS 110-43-0)	STEL	475 mg/m3 100 ppm
	TWA	238 mg/m3 50 ppm

**Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work**

Components	Type	Value
acetone (CAS 67-64-1)	STEL	1400 mg/m <sup>3</sup>
	TWA	600 mg/m <sup>3</sup>
Ethanol (CAS 64-17-5)	TWA	1000 mg/m <sup>3</sup>
ethyl acetate (CAS 141-78-6)	TWA	800 mg/m <sup>3</sup>
Ethyl benzene (CAS 100-41-4)	STEL	545 mg/m <sup>3</sup>
	TWA	435 mg/m <sup>3</sup>
methanol (CAS 67-56-1)	TWA	260 mg/m <sup>3</sup>
		200 ppm
Toluene (CAS 108-88-3)	STEL	384 mg/m <sup>3</sup>
	TWA	192 mg/m <sup>3</sup>
Xylene (CAS 1330-20-7)		50 ppm
	STEL	442 mg/m <sup>3</sup>
	TWA	221 mg/m <sup>3</sup>
		100 ppm
		50 ppm

**Croatia. Dangerous Substance Exposure Limit Values in the Workplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09**

Components	Type	Value
1-Propanol (CAS 71-23-8)	MAC	500 mg/m <sup>3</sup>
	STEL	200 ppm
2-butanone (CAS 78-93-3)		625 mg/m <sup>3</sup>
	MAC	250 ppm
	STEL	600 mg/m <sup>3</sup>
2-Butoxyethanol (CAS 111-76-2)		900 mg/m <sup>3</sup>
	MAC	300 ppm
	STEL	98 mg/m <sup>3</sup>
2-Heptanone (CAS 110-43-0)		20 ppm
	MAC	246 mg/m <sup>3</sup>
	STEL	50 ppm
acetone (CAS 67-64-1)		238 mg/m <sup>3</sup>
	MAC	50 ppm
	STEL	475 mg/m <sup>3</sup>
Ethanol (CAS 64-17-5)		100 ppm
	MAC	1210 mg/m <sup>3</sup>
	STEL	500 ppm
ethyl acetate (CAS 141-78-6)		3620 mg/m <sup>3</sup>
	MAC	1500 ppm
	STEL	1900 mg/m <sup>3</sup>
Ethyl benzene (CAS 100-41-4)		1000 ppm
	MAC	200 ppm
	STEL	400 ppm
methanol (CAS 67-56-1)		442 mg/m <sup>3</sup>
	MAC	100 ppm
	STEL	884 mg/m <sup>3</sup>
n-PROPYL ACETATE (CAS 109-60-4)		200 ppm
	MAC	260 mg/m <sup>3</sup>
	STEL	200 ppm
Toluene (CAS 108-88-3)		849 mg/m <sup>3</sup>
	MAC	200 ppm
	STEL	1060 mg/m <sup>3</sup>
		250 ppm
		192 mg/m <sup>3</sup>
		50 ppm
		384 mg/m <sup>3</sup>
		100 ppm



**Croatia. Dangerous Substance Exposure Limit Values in the Workplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09**

Components	Type	Value
Xylene (CAS 1330-20-7)	MAC	221 mg/m3 50 ppm
	STEL	442 mg/m3 100 ppm

**Cyprus. OELs. Control of factory atmosphere and dangerous substances in factories regulation, PI 311/73, as amended.**

Components	Type	Value
1-Propanol (CAS 71-23-8)	TWA	500 mg/m3 200 ppm
ethyl acetate (CAS 141-78-6)	TWA	1400 mg/m3 400 ppm
n-PROPYL ACETATE (CAS 109-60-4)	TWA	840 mg/m3 200 ppm

**Czech Republic. OELs. Government Decree 361**

Components	Type	Value
1-Propanol (CAS 71-23-8)	Ceiling	1000 mg/m3
	TWA	500 mg/m3
2-butanone (CAS 78-93-3)	Ceiling	900 mg/m3
	TWA	600 mg/m3
2-Butoxyethanol (CAS 111-76-2)	Ceiling	200 mg/m3
	TWA	100 mg/m3
2-Heptanone (CAS 110-43-0)	Ceiling	300 mg/m3
	TWA	150 mg/m3
acetone (CAS 67-64-1)	Ceiling	1500 mg/m3
	TWA	800 mg/m3
Ethanol (CAS 64-17-5)	Ceiling	3000 mg/m3
	TWA	1000 mg/m3
ethyl acetate (CAS 141-78-6)	Ceiling	900 mg/m3
	TWA	700 mg/m3
Ethyl benzene (CAS 100-41-4)	Ceiling	500 mg/m3
	TWA	200 mg/m3
methanol (CAS 67-56-1)	Ceiling	1000 mg/m3
	TWA	250 mg/m3
n-PROPYL ACETATE (CAS 109-60-4)	Ceiling	1000 mg/m3
	TWA	800 mg/m3
Toluene (CAS 108-88-3)	Ceiling	500 mg/m3
	TWA	200 mg/m3
Xylene (CAS 1330-20-7)	Ceiling	400 mg/m3
	TWA	200 mg/m3

**Denmark. Exposure Limit Values**

Components	Type	Value
1-Propanol (CAS 71-23-8)	TLV	500 mg/m3 200 ppm
		145 mg/m3 50 ppm
2-butanone (CAS 78-93-3)	TLV	98 mg/m3 20 ppm
		238 mg/m3
2-Heptanone (CAS 110-43-0)	TLV	50 ppm
		600 mg/m3 250 ppm
acetone (CAS 67-64-1)	TLV	1900 mg/m3 1000 ppm
Ethanol (CAS 64-17-5)	TLV	

**Denmark. Exposure Limit Values**

Components	Type	Value
ethyl acetate (CAS 141-78-6)	TLV	540 mg/m3
		150 ppm
Ethyl benzene (CAS 100-41-4)	TLV	217 mg/m3
		50 ppm
methanol (CAS 67-56-1)	TLV	260 mg/m3
		200 ppm
n-PROPYL ACETATE (CAS 109-60-4)	TLV	625 mg/m3
		150 ppm
Toluene (CAS 108-88-3)	TLV	94 mg/m3
		25 ppm
Xylene (CAS 1330-20-7)	TLV	109 mg/m3
		25 ppm

**Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Regulation No. 293 of 18 September 2001)**

Components	Type	Value
1-Propanol (CAS 71-23-8)	STEL	600 mg/m3
		250 ppm
	TWA	350 mg/m3
2-butanone (CAS 78-93-3)	STEL	150 ppm
		900 mg/m3
	TWA	300 ppm
2-Butoxyethanol (CAS 111-76-2)	STEL	600 mg/m3
		200 ppm
	TWA	246 mg/m3
2-Heptanone (CAS 110-43-0)	STEL	50 ppm
		98 mg/m3
	TWA	20 ppm
acetone (CAS 67-64-1)	STEL	475 mg/m3
		100 ppm
	TWA	238 mg/m3
Ethanol (CAS 64-17-5)	STEL	50 ppm
		1210 mg/m3
	TWA	500 ppm
ethyl acetate (CAS 141-78-6)	STEL	1900 mg/m3
		1000 ppm
	TWA	1000 mg/m3
Ethyl benzene (CAS 100-41-4)	STEL	500 ppm
		1100 mg/m3
	TWA	300 ppm
methanol (CAS 67-56-1)	STEL	500 mg/m3
		150 ppm
	TWA	884 mg/m3
Toluene (CAS 108-88-3)	STEL	200 ppm
		442 mg/m3
	TWA	100 ppm
Xylene (CAS 1330-20-7)	STEL	350 mg/m3
		250 ppm
	TWA	250 mg/m3
ethyl acetate (CAS 141-78-6)	STEL	200 ppm
		384 mg/m3
	TWA	100 ppm
Ethyl benzene (CAS 100-41-4)	STEL	192 mg/m3
		50 ppm
	TWA	450 mg/m3
methanol (CAS 67-56-1)	STEL	100 ppm
		200 mg/m3
	TWA	200 ppm

**Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Regulation No. 293 of 18 September 2001)**

<b>Components</b>	<b>Type</b>	<b>Value</b>
		50 ppm
<b>Finland. Workplace Exposure Limits</b>		
<b>Components</b>	<b>Type</b>	<b>Value</b>
1-Propanol (CAS 71-23-8)	STEL	620 mg/m3
		250 ppm
	TWA	500 mg/m3
		200 ppm
2-butanone (CAS 78-93-3)	STEL	300 mg/m3
		100 ppm
2-Butoxyethanol (CAS 111-76-2)	STEL	250 mg/m3
		50 ppm
	TWA	98 mg/m3
		20 ppm
2-Heptanone (CAS 110-43-0)	STEL	360 mg/m3
		75 ppm
	TWA	240 mg/m3
		50 ppm
acetone (CAS 67-64-1)	STEL	1500 mg/m3
		630 ppm
	TWA	1200 mg/m3
		500 ppm
Ethanol (CAS 64-17-5)	STEL	2500 mg/m3
		1300 ppm
	TWA	1900 mg/m3
		1000 ppm
ethyl acetate (CAS 141-78-6)	STEL	1800 mg/m3
		500 ppm
	TWA	1100 mg/m3
		300 ppm
Ethyl benzene (CAS 100-41-4)	STEL	880 mg/m3
		200 ppm
	TWA	220 mg/m3
		50 ppm
methanol (CAS 67-56-1)	STEL	330 mg/m3
		250 ppm
	TWA	270 mg/m3
		200 ppm
n-PROPYL ACETATE (CAS 109-60-4)	STEL	850 mg/m3
		200 ppm
	TWA	420 mg/m3
		100 ppm
Toluene (CAS 108-88-3)	STEL	380 mg/m3
		100 ppm
	TWA	81 mg/m3
		25 ppm
Xylene (CAS 1330-20-7)	STEL	440 mg/m3
		100 ppm
	TWA	220 mg/m3
		50 ppm

**France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984**

<b>Components</b>	<b>Type</b>	<b>Value</b>
1-Propanol (CAS 71-23-8)	VME	500 mg/m3
		200 ppm
2-butanone (CAS 78-93-3)	VLE	900 mg/m3
		300 ppm
	VME	600 mg/m3

**France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984**

<b>Components</b>	<b>Type</b>	<b>Value</b>
2-Butoxyethanol (CAS 111-76-2)	VLE	200 ppm 246 mg/m3
	VME	50 ppm 49 mg/m3
2-Heptanone (CAS 110-43-0)	VLE	10 ppm 475 mg/m3
	VME	100 ppm 238 mg/m3
acetone (CAS 67-64-1)	VLE	50 ppm 2420 mg/m3
	VME	1000 ppm 1210 mg/m3
Ethanol (CAS 64-17-5)	VLE	500 ppm 9500 mg/m3
	VME	5000 ppm 1900 mg/m3
ethyl acetate (CAS 141-78-6)	VME	1000 ppm 1400 mg/m3
Ethyl benzene (CAS 100-41-4)	VLE	400 ppm 442 mg/m3
	VME	100 ppm 88,4 mg/m3
methanol (CAS 67-56-1)	VLE	20 ppm 1300 mg/m3
	VME	1000 ppm 260 mg/m3
n-PROPYL ACETATE (CAS 109-60-4)	VME	200 ppm 840 mg/m3
Toluene (CAS 108-88-3)	VLE	200 ppm 384 mg/m3
	VME	100 ppm 76,8 mg/m3
Xylene (CAS 1330-20-7)	VLE	20 ppm 442 mg/m3
	VME	100 ppm 221 mg/m3 50 ppm

**Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)**

<b>Components</b>	<b>Type</b>	<b>Value</b>
2-butanone (CAS 78-93-3)	TWA	600 mg/m3 200 ppm
2-Butoxyethanol (CAS 111-76-2)	TWA	49 mg/m3 10 ppm
acetone (CAS 67-64-1)	TWA	1200 mg/m3 500 ppm
Ethanol (CAS 64-17-5)	TWA	960 mg/m3 500 ppm
ethyl acetate (CAS 141-78-6)	TWA	1500 mg/m3 400 ppm
Ethyl benzene (CAS 100-41-4)	TWA	88 mg/m3 20 ppm
methanol (CAS 67-56-1)	TWA	270 mg/m3 200 ppm

**Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)**

Components	Type	Value
n-PROPYL ACETATE (CAS 109-60-4)	TWA	420 mg/m3
		100 ppm
Toluene (CAS 108-88-3)	TWA	190 mg/m3
		50 ppm
Xylene (CAS 1330-20-7)	TWA	440 mg/m3
		100 ppm

**Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace**

Components	Type	Value
2-butanone (CAS 78-93-3)	AGW	600 mg/m3
		200 ppm
2-Butoxyethanol (CAS 111-76-2)	AGW	49 mg/m3
		10 ppm
2-Heptanone (CAS 110-43-0)	AGW	238 mg/m3
acetone (CAS 67-64-1)	AGW	1200 mg/m3
		500 ppm
Ethanol (CAS 64-17-5)	AGW	960 mg/m3
		500 ppm
ethyl acetate (CAS 141-78-6)	AGW	1500 mg/m3
		400 ppm
Ethyl benzene (CAS 100-41-4)	AGW	88 mg/m3
		20 ppm
methanol (CAS 67-56-1)	AGW	270 mg/m3
		200 ppm
Toluene (CAS 108-88-3)	AGW	190 mg/m3
		50 ppm
Xylene (CAS 1330-20-7)	AGW	440 mg/m3
		100 ppm

**Greece. OELs (Decree No. 90/1999, as amended)**

Components	Type	Value
1-Propanol (CAS 71-23-8)	STEL	625 mg/m3
		250 ppm
	TWA	500 mg/m3
		200 ppm
2-butanone (CAS 78-93-3)	STEL	900 mg/m3
		300 ppm
	TWA	600 mg/m3
		200 ppm
2-Butoxyethanol (CAS 111-76-2)	TWA	120 mg/m3
		25 ppm
2-Heptanone (CAS 110-43-0)	STEL	465 mg/m3
		100 ppm
	TWA	465 mg/m3
		100 ppm
acetone (CAS 67-64-1)	STEL	3560 mg/m3
		1780 mg/m3
	TWA	1900 mg/m3
		1000 ppm
ethyl acetate (CAS 141-78-6)	TWA	1400 mg/m3
		400 ppm
Ethyl benzene (CAS 100-41-4)	STEL	545 mg/m3
		125 ppm
	TWA	435 mg/m3

**Greece. OELs (Decree No. 90/1999, as amended)**

Components	Type	Value
methanol (CAS 67-56-1)	STEL	100 ppm 325 mg/m3
	TWA	250 ppm 260 mg/m3
n-PROPYL ACETATE (CAS 109-60-4)	STEL	200 ppm 1050 mg/m3
	TWA	250 ppm 840 mg/m3
Toluene (CAS 108-88-3)	STEL	200 ppm 384 mg/m3
	TWA	100 ppm 192 mg/m3
Xylene (CAS 1330-20-7)	STEL	50 ppm 650 mg/m3
	TWA	150 ppm 435 mg/m3
		100 ppm

**Hungary. OELs. Joint Decree on Chemical Safety of Workplaces**

Components	Type	Value
2-butanone (CAS 78-93-3)	STEL	900 mg/m3
	TWA	600 mg/m3
2-Butoxyethanol (CAS 111-76-2)	STEL	246 mg/m3
	TWA	98 mg/m3
2-Heptanone (CAS 110-43-0)	STEL	476 mg/m3
	TWA	238 mg/m3
acetone (CAS 67-64-1)	STEL	2420 mg/m3
	TWA	1210 mg/m3
Ethanol (CAS 64-17-5)	STEL	7600 mg/m3
	TWA	1900 mg/m3
ethyl acetate (CAS 141-78-6)	STEL	1400 mg/m3
	TWA	1400 mg/m3
Ethyl benzene (CAS 100-41-4)	STEL	884 mg/m3
	TWA	442 mg/m3
methanol (CAS 67-56-1)	TWA	260 mg/m3
	STEL	840 mg/m3
n-PROPYL ACETATE (CAS 109-60-4)	TWA	840 mg/m3
	STEL	380 mg/m3
Toluene (CAS 108-88-3)	TWA	190 mg/m3
	STEL	442 mg/m3
Xylene (CAS 1330-20-7)	STEL	442 mg/m3
	TWA	221 mg/m3

**Iceland. OELs. Regulation 154/1999 on occupational exposure limits**

Components	Type	Value
1-Propanol (CAS 71-23-8)	TWA	500 mg/m3
		200 ppm
2-butanone (CAS 78-93-3)	STEL	900 mg/m3
	TWA	300 ppm 145 mg/m3
2-Butoxyethanol (CAS 111-76-2)	STEL	50 ppm 246 mg/m3
	TWA	50 ppm 100 mg/m3
2-Heptanone (CAS 110-43-0)	STEL	20 ppm 475 mg/m3
		100 ppm

**Iceland. OELs. Regulation 154/1999 on occupational exposure limits**

Components	Type	Value
	TWA	238 mg/m3
		50 ppm
acetone (CAS 67-64-1)	TWA	600 mg/m3
		250 ppm
Ethanol (CAS 64-17-5)	TWA	1900 mg/m3
		1000 ppm
ethyl acetate (CAS 141-78-6)	TWA	540 mg/m3
		150 ppm
Ethyl benzene (CAS 100-41-4)	STEL	884 mg/m3
		200 ppm
	TWA	200 mg/m3
		50 ppm
methanol (CAS 67-56-1)	TWA	260 mg/m3
		200 ppm
n-PROPYL ACETATE (CAS 109-60-4)	TWA	625 mg/m3
		150 ppm
Toluene (CAS 108-88-3)	STEL	188 mg/m3
		50 ppm
	TWA	94 mg/m3
		25 ppm
Xylene (CAS 1330-20-7)	STEL	442 mg/m3
		100 ppm
	TWA	109 mg/m3
		25 ppm

**Ireland. Occupational Exposure Limits**

Components	Type	Value
1-Propanol (CAS 71-23-8)	TWA	100 ppm
2-butanone (CAS 78-93-3)	STEL	900 mg/m3
		300 ppm
	TWA	600 mg/m3
		200 ppm
2-Butoxyethanol (CAS 111-76-2)	STEL	246 mg/m3
		50 ppm
	TWA	98 mg/m3
		20 ppm
2-Heptanone (CAS 110-43-0)	STEL	475 mg/m3
		100 ppm
	TWA	238 mg/m3
		50 ppm
acetone (CAS 67-64-1)	TWA	1210 mg/m3
		500 ppm
Ethanol (CAS 64-17-5)	STEL	1000 ppm
ethyl acetate (CAS 141-78-6)	STEL	400 ppm
		200 ppm
Ethyl benzene (CAS 100-41-4)	STEL	884 mg/m3
		200 ppm
	TWA	442 mg/m3
		100 ppm
methanol (CAS 67-56-1)	TWA	260 mg/m3
		200 ppm
n-PROPYL ACETATE (CAS 109-60-4)	STEL	1050 mg/m3
		250 ppm
	TWA	840 mg/m3
		200 ppm
Toluene (CAS 108-88-3)	STEL	384 mg/m3

**Ireland. Occupational Exposure Limits Components**

Type	Value
TWA	100 ppm 192 mg/m3
STEL	50 ppm 442 mg/m3
TWA	100 ppm 221 mg/m3 50 ppm

**Italy. Occupational Exposure Limits Components**

Type	Value
TWA	100 ppm
STEL	900 mg/m3 300 ppm
TWA	600 mg/m3 200 ppm
STEL	246 mg/m3
TWA	50 ppm 98 mg/m3 20 ppm
STEL	475 mg/m3
TWA	100 ppm 238 mg/m3 50 ppm
TWA	1210 mg/m3 500 ppm
STEL	1000 ppm
TWA	400 ppm
STEL	884 mg/m3
TWA	200 ppm 442 mg/m3 100 ppm
TWA	260 mg/m3 200 ppm
STEL	250 ppm
TWA	200 ppm
TWA	192 mg/m3 50 ppm
STEL	442 mg/m3 100 ppm 221 mg/m3 50 ppm

**Latvia. OELs. Occupational exposure limit values of chemical substances in work environment Components**

Type	Value
TWA	10 mg/m3
STEL	900 mg/m3 300 ppm
TWA	200 mg/m3 67 ppm
STEL	246 mg/m3
TWA	50 ppm 98 mg/m3 20 ppm
STEL	475 mg/m3
TWA	100 ppm 238 mg/m3 50 ppm



**Latvia. OELs. Occupational exposure limit values of chemical substances in work environment**

<b>Components</b>	<b>Type</b>	<b>Value</b>
acetone (CAS 67-64-1)	TWA	1210 mg/m3 500 ppm
Ethanol (CAS 64-17-5)	TWA	1000 mg/m3
ethyl acetate (CAS 141-78-6)	TWA	200 mg/m3
Ethyl benzene (CAS 100-41-4)	STEL	884 mg/m3
	TWA	200 ppm 442 mg/m3 100 ppm
methanol (CAS 67-56-1)	TWA	260 mg/m3 200 ppm
n-PROPYL ACETATE (CAS 109-60-4)	TWA	200 mg/m3
Toluene (CAS 108-88-3)	STEL	150 mg/m3 40 ppm
	TWA	50 mg/m3 14 ppm
Xylene (CAS 1330-20-7)	STEL	442 mg/m3 100 ppm
	TWA	221 mg/m3 50 ppm

**Lithuania. OELs. Limit Values for Chemical Substances, General Requirements**

<b>Components</b>	<b>Type</b>	<b>Value</b>
1-Propanol (CAS 71-23-8)	STEL	600 mg/m3 250 ppm
	TWA	350 mg/m3 150 ppm
2-butanone (CAS 78-93-3)	STEL	900 mg/m3 300 ppm
	TWA	600 mg/m3 200 ppm
2-Butoxyethanol (CAS 111-76-2)	STEL	100 mg/m3
	TWA	20 ppm 50 mg/m3 10 ppm
2-Heptanone (CAS 110-43-0)	STEL	250 mg/m3
	TWA	50 ppm 120 mg/m3 25 ppm
acetone (CAS 67-64-1)	STEL	2420 mg/m3 1000 ppm
	TWA	1210 mg/m3 500 ppm
Ethanol (CAS 64-17-5)	STEL	1900 mg/m3 1000 ppm
	TWA	1000 mg/m3 500 ppm
ethyl acetate (CAS 141-78-6)	Ceiling	1100 mg/m3
	TWA	300 ppm 500 mg/m3 150 ppm
Ethyl benzene (CAS 100-41-4)	STEL	884 mg/m3
	TWA	200 ppm 442 mg/m3 100 ppm
methanol (CAS 67-56-1)	TWA	260 mg/m3 200 ppm

**Lithuania. OELs. Limit Values for Chemical Substances, General Requirements**

Components	Type	Value
n-PROPYL ACETATE (CAS 109-60-4)	STEL	800 mg/m <sup>3</sup>
		200 ppm
	TWA	420 mg/m <sup>3</sup>
		100 ppm
Toluene (CAS 108-88-3)	STEL	384 mg/m <sup>3</sup>
		100 ppm
	TWA	192 mg/m <sup>3</sup>
		50 ppm
Xylene (CAS 1330-20-7)	STEL	450 mg/m <sup>3</sup>
		100 ppm
	TWA	200 mg/m <sup>3</sup>
		50 ppm

**Luxembourg. Binding Occupational exposure limit values (Annex I), Memorial A**

Components	Type	Value
2-butanone (CAS 78-93-3)	STEL	900 mg/m <sup>3</sup>
		300 ppm
	TWA	600 mg/m <sup>3</sup>
		200 ppm
2-Butoxyethanol (CAS 111-76-2)	STEL	246 mg/m <sup>3</sup>
		50 ppm
	TWA	98 mg/m <sup>3</sup>
		20 ppm
2-Heptanone (CAS 110-43-0)	STEL	475 mg/m <sup>3</sup>
		100 ppm
	TWA	238 mg/m <sup>3</sup>
		50 ppm
acetone (CAS 67-64-1)	TWA	1210 mg/m <sup>3</sup>
		500 ppm
Ethyl benzene (CAS 100-41-4)	STEL	884 mg/m <sup>3</sup>
		200 ppm
	TWA	442 mg/m <sup>3</sup>
		100 ppm
methanol (CAS 67-56-1)	TWA	260 mg/m <sup>3</sup>
		200 ppm
Toluene (CAS 108-88-3)	STEL	384 mg/m <sup>3</sup>
		100 ppm
	TWA	192 mg/m <sup>3</sup>
		50 ppm
Xylene (CAS 1330-20-7)	STEL	442 mg/m <sup>3</sup>
		100 ppm
	TWA	221 mg/m <sup>3</sup>
		50 ppm

**Malta. OELs. Occupational Exposure Limit Values (L.N. 227. of Occupational Health and Safety Authority Act (CAP. 424), Schedules I and V)**

Components	Type	Value
2-butanone (CAS 78-93-3)	STEL	900 mg/m <sup>3</sup>
		300 ppm
	TWA	600 mg/m <sup>3</sup>
		200 ppm
2-Butoxyethanol (CAS 111-76-2)	STEL	246 mg/m <sup>3</sup>
		50 ppm
	TWA	98 mg/m <sup>3</sup>
		20 ppm
2-Heptanone (CAS 110-43-0)	STEL	475 mg/m <sup>3</sup>
		100 ppm
	TWA	238 mg/m <sup>3</sup>

**Malta. OELs. Occupational Exposure Limit Values (L.N. 227. of Occupational Health and Safety Authority Act (CAP. 424), Schedules I and V)**

<b>Components</b>	<b>Type</b>	<b>Value</b>
acetone (CAS 67-64-1)	TWA	50 ppm
		1210 mg/m <sup>3</sup>
Ethyl benzene (CAS 100-41-4)	STEL	500 ppm
		884 mg/m <sup>3</sup>
	TWA	200 ppm
		442 mg/m <sup>3</sup>
methanol (CAS 67-56-1)	TWA	100 ppm
		260 mg/m <sup>3</sup>
Toluene (CAS 108-88-3)	STEL	200 ppm
		384 mg/m <sup>3</sup>
	TWA	100 ppm
		192 mg/m <sup>3</sup>
Xylene (CAS 1330-20-7)	STEL	50 ppm
		442 mg/m <sup>3</sup>
	TWA	100 ppm
		221 mg/m <sup>3</sup>
		50 ppm

**Netherlands. OELs (binding)**

<b>Components</b>	<b>Type</b>	<b>Value</b>
2-butanone (CAS 78-93-3)	STEL	900 mg/m <sup>3</sup>
		TWA
2-Butoxyethanol (CAS 111-76-2)	STEL	590 mg/m <sup>3</sup>
		TWA
2-Heptanone (CAS 110-43-0)	TWA	246 mg/m <sup>3</sup>
		TWA
acetone (CAS 67-64-1)	STEL	100 mg/m <sup>3</sup>
		TWA
Ethanol (CAS 64-17-5)	STEL	233 mg/m <sup>3</sup>
		TWA
Ethyl benzene (CAS 100-41-4)	STEL	2420 mg/m <sup>3</sup>
		TWA
methanol (CAS 67-56-1)	TWA	1210 mg/m <sup>3</sup>
		TWA
Toluene (CAS 108-88-3)	STEL	1900 mg/m <sup>3</sup>
		TWA
Xylene (CAS 1330-20-7)	STEL	260 mg/m <sup>3</sup>
		TWA
		430 mg/m <sup>3</sup>
		215 mg/m <sup>3</sup>
		133 mg/m <sup>3</sup>
		384 mg/m <sup>3</sup>
		150 mg/m <sup>3</sup>
		442 mg/m <sup>3</sup>
		210 mg/m <sup>3</sup>

**Norway. Administrative Norms for Contaminants in the Workplace**

<b>Components</b>	<b>Type</b>	<b>Value</b>
1-Propanol (CAS 71-23-8)	TLV	245 mg/m <sup>3</sup>
		100 ppm
2-butanone (CAS 78-93-3)	TLV	220 mg/m <sup>3</sup>
		75 ppm
2-Butoxyethanol (CAS 111-76-2)	TLV	50 mg/m <sup>3</sup>
		10 ppm
2-Heptanone (CAS 110-43-0)	TLV	115 mg/m <sup>3</sup>
		25 ppm
acetone (CAS 67-64-1)	TLV	295 mg/m <sup>3</sup>
		125 ppm
Ethanol (CAS 64-17-5)	TLV	950 mg/m <sup>3</sup>
		500 ppm
ethyl acetate (CAS 141-78-6)	TLV	550 mg/m <sup>3</sup>
		150 ppm
Ethyl benzene (CAS 100-41-4)	TLV	20 mg/m <sup>3</sup>
		5 ppm

**Norway. Administrative Norms for Contaminants in the Workplace**

Components	Type	Value
methanol (CAS 67-56-1)	TLV	130 mg/m3
		100 ppm
n-PROPYL ACETATE (CAS 109-60-4)	TLV	420 mg/m3
		100 ppm
Toluene (CAS 108-88-3)	TLV	94 mg/m3
		25 ppm
Xylene (CAS 1330-20-7)	TLV	108 mg/m3
		25 ppm

**Poland. MACs. Minister of Labour and Social Policy Regarding Maximum Allowable Concentrations and Intensities in Working Environment**

Components	Type	Value
1-Propanol (CAS 71-23-8)	STEL	600 mg/m3
		TWA
2-butanone (CAS 78-93-3)	STEL	900 mg/m3
		TWA
2-Butoxyethanol (CAS 111-76-2)	STEL	200 mg/m3
		TWA
2-Heptanone (CAS 110-43-0)	STEL	475 mg/m3
		TWA
acetone (CAS 67-64-1)	STEL	1800 mg/m3
		TWA
Ethanol (CAS 64-17-5)	TWA	1900 mg/m3
		STEL
ethyl acetate (CAS 141-78-6)	TWA	200 mg/m3
		STEL
Ethyl benzene (CAS 100-41-4)	TWA	200 mg/m3
		STEL
methanol (CAS 67-56-1)	STEL	300 mg/m3
		TWA
n-PROPYL ACETATE (CAS 109-60-4)	STEL	400 mg/m3
		TWA
Toluene (CAS 108-88-3)	STEL	200 mg/m3
		TWA
Xylene (CAS 1330-20-7)	TWA	100 mg/m3

**Portugal. OELs. Decree-Law n. 290/2001 (Journal of the Republic - 1 Series A, n.266)**

Components	Type	Value	
2-butanone (CAS 78-93-3)	STEL	900 mg/m3	
		TWA	300 ppm
		TWA	600 mg/m3
2-Butoxyethanol (CAS 111-76-2)	STEL	200 ppm	
		TWA	246 mg/m3
		TWA	50 ppm
2-Heptanone (CAS 110-43-0)	STEL	98 mg/m3	
		TWA	20 ppm
		TWA	475 mg/m3
acetone (CAS 67-64-1)	TWA	100 ppm	
		TWA	238 mg/m3
		TWA	50 ppm
Ethyl benzene (CAS 100-41-4)	STEL	1210 mg/m3	
		TWA	500 ppm
		TWA	884 mg/m3
	TWA	200 ppm	
		TWA	442 mg/m3
		TWA	100 ppm

**Portugal. OELs. Decree-Law n. 290/2001 (Journal of the Republic - 1 Series A, n.266)**

Components	Type	Value
methanol (CAS 67-56-1)	TWA	260 mg/m3
		200 ppm
Toluene (CAS 108-88-3)	STEL	384 mg/m3
		100 ppm
	TWA	192 mg/m3
		50 ppm
Xylene (CAS 1330-20-7)	STEL	442 mg/m3
		100 ppm
	TWA	221 mg/m3
		50 ppm

**Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)**

Components	Type	Value
1-Propanol (CAS 71-23-8)	STEL	400 ppm
	TWA	200 ppm
2-butanone (CAS 78-93-3)	STEL	300 ppm
	TWA	200 ppm
2-Butoxyethanol (CAS 111-76-2)	TWA	20 ppm
2-Heptanone (CAS 110-43-0)	TWA	50 ppm
acetone (CAS 67-64-1)	STEL	750 ppm
	TWA	500 ppm
Ethanol (CAS 64-17-5)	TWA	1000 ppm
ethyl acetate (CAS 141-78-6)	TWA	400 ppm
Ethyl benzene (CAS 100-41-4)	STEL	125 ppm
	TWA	100 ppm
methanol (CAS 67-56-1)	STEL	250 ppm
	TWA	200 ppm
n-PROPYL ACETATE (CAS 109-60-4)	STEL	250 ppm
	TWA	200 ppm
Toluene (CAS 108-88-3)	TWA	50 ppm
Xylene (CAS 1330-20-7)	STEL	150 ppm
	TWA	100 ppm

**Romania. OELs. Protection of workers from exposure to chemical agents at the workplace**

Components	Type	Value
1-Propanol (CAS 71-23-8)	STEL	500 mg/m3
		203 ppm
	TWA	200 mg/m3
2-butanone (CAS 78-93-3)		81 ppm
	STEL	900 mg/m3
		300 ppm
	TWA	600 mg/m3
2-Butoxyethanol (CAS 111-76-2)		200 ppm
	STEL	250 mg/m3
2-Heptanone (CAS 110-43-0)		50 ppm
	TWA	150 mg/m3
		30 ppm
acetone (CAS 67-64-1)	STEL	475 mg/m3
	TWA	100 ppm
Ethanol (CAS 64-17-5)		238 mg/m3
	TWA	50 ppm
acetone (CAS 67-64-1)	TWA	1210 mg/m3
		500 ppm
Ethanol (CAS 64-17-5)	STEL	9500 mg/m3
		5000 ppm
	TWA	1900 mg/m3
		1000 ppm

**Romania. OELs. Protection of workers from exposure to chemical agents at the workplace**

Components	Type	Value
ethyl acetate (CAS 141-78-6)	STEL	500 mg/m <sup>3</sup>
		139 ppm
	TWA	400 mg/m <sup>3</sup>
		111 ppm
Ethyl benzene (CAS 100-41-4)	STEL	884 mg/m <sup>3</sup>
		200 ppm
	TWA	442 mg/m <sup>3</sup>
		100 ppm
methanol (CAS 67-56-1)	STEL	5 ppm
	TWA	260 mg/m <sup>3</sup>
		200 ppm
	STEL	600 mg/m <sup>3</sup>
		144 ppm
	TWA	400 mg/m <sup>3</sup>
		96 ppm
	STEL	384 mg/m <sup>3</sup>
		100 ppm
	TWA	192 mg/m <sup>3</sup>
		50 ppm
	STEL	442 mg/m <sup>3</sup>
		100 ppm
	TWA	221 mg/m <sup>3</sup>
		50 ppm

**Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents**

Components	Type	Value
2-butanone (CAS 78-93-3)	STEL	900 mg/m <sup>3</sup>
		300 ppm
	TWA	600 mg/m <sup>3</sup>
		200 ppm
2-Butoxyethanol (CAS 111-76-2)	STEL	246 mg/m <sup>3</sup>
		50 ppm
	TWA	98 mg/m <sup>3</sup>
		20 ppm
2-Heptanone (CAS 110-43-0)	STEL	475 mg/m <sup>3</sup>
		100 ppm
	TWA	238 mg/m <sup>3</sup>
		50 ppm
acetone (CAS 67-64-1)	TWA	1210 mg/m <sup>3</sup>
		500 ppm
	STEL	1920 mg/m <sup>3</sup>
		1000 ppm
	TWA	960 mg/m <sup>3</sup>
		500 ppm
	STEL	1100 mg/m <sup>3</sup>
		300 ppm
	TWA	500 mg/m <sup>3</sup>
		150 ppm
	STEL	884 mg/m <sup>3</sup>
		200 ppm
	TWA	442 mg/m <sup>3</sup>
		100 ppm
	TWA	260 mg/m <sup>3</sup>
		200 ppm
	STEL	800 mg/m <sup>3</sup>
		200 ppm

**Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents**

Components	Type	Value
Toluene (CAS 108-88-3)	TWA	400 mg/m3 100 ppm
	STEL	384 mg/m3 100 ppm
Xylene (CAS 1330-20-7)	TWA	192 mg/m3 50 ppm
	STEL	442 mg/m3 100 ppm
	TWA	221 mg/m3 50 ppm

**Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)**

Components	Type	Value
2-butanone (CAS 78-93-3)	TWA	600 mg/m3 200 ppm
2-Butoxyethanol (CAS 111-76-2)	TWA	98 mg/m3 20 ppm
2-Heptanone (CAS 110-43-0)	TWA	238 mg/m3 50 ppm
acetone (CAS 67-64-1)	TWA	1210 mg/m3 500 ppm
Ethanol (CAS 64-17-5)	TWA	1900 mg/m3 1000 ppm
ethyl acetate (CAS 141-78-6)	TWA	1400 mg/m3 400 ppm
Ethyl benzene (CAS 100-41-4)	TWA	442 mg/m3 100 ppm
methanol (CAS 67-56-1)	TWA	260 mg/m3 200 ppm
n-PROPYL ACETATE (CAS 109-60-4)	TWA	420 mg/m3 100 ppm
Toluene (CAS 108-88-3)	TWA	192 mg/m3 50 ppm
Xylene (CAS 1330-20-7)	TWA	221 mg/m3 50 ppm

**Spain. Occupational Exposure Limits**

Components	Type	Value
1-Propanol (CAS 71-23-8)	STEL	1000 mg/m3 400 ppm
	TWA	500 mg/m3 200 ppm
2-butanone (CAS 78-93-3)	STEL	900 mg/m3 300 ppm
	TWA	600 mg/m3 200 ppm
2-Butoxyethanol (CAS 111-76-2)	STEL	245 mg/m3 50 ppm
	TWA	98 mg/m3 20 ppm
2-Heptanone (CAS 110-43-0)	STEL	474 mg/m3 100 ppm
	TWA	237 mg/m3 50 ppm
acetone (CAS 67-64-1)	TWA	1210 mg/m3 500 ppm

**Spain. Occupational Exposure Limits Components**

<b>Components</b>	<b>Type</b>	<b>Value</b>
Ethanol (CAS 64-17-5)	STEL	1910 mg/m3 1000 ppm
ethyl acetate (CAS 141-78-6)	TWA	1460 mg/m3 400 ppm
Ethyl benzene (CAS 100-41-4)	STEL	884 mg/m3 200 ppm
	TWA	441 mg/m3 100 ppm
methanol (CAS 67-56-1)	TWA	266 mg/m3 200 ppm
n-PROPYL ACETATE (CAS 109-60-4)	STEL	1060 mg/m3 250 ppm
	TWA	849 mg/m3 200 ppm
Toluene (CAS 108-88-3)	STEL	384 mg/m3 100 ppm
	TWA	192 mg/m3 50 ppm
Xylene (CAS 1330-20-7)	STEL	442 mg/m3 100 ppm
	TWA	221 mg/m3 50 ppm

**Sweden. Occupational Exposure Limit Values Components**

<b>Components</b>	<b>Type</b>	<b>Value</b>
1-Propanol (CAS 71-23-8)	STEL	600 mg/m3 250 ppm
	TWA	350 mg/m3 150 ppm
2-butanone (CAS 78-93-3)	STEL	300 mg/m3 100 ppm
	TWA	150 mg/m3 50 ppm
2-Butoxyethanol (CAS 111-76-2)	STEL	100 mg/m3 20 ppm
	TWA	50 mg/m3 10 ppm
2-Heptanone (CAS 110-43-0)	STEL	250 mg/m3 50 ppm
	TWA	120 mg/m3 25 ppm
acetone (CAS 67-64-1)	STEL	1200 mg/m3 500 ppm
	TWA	600 mg/m3 250 ppm
Ethanol (CAS 64-17-5)	STEL	1900 mg/m3 1000 ppm
	TWA	1000 mg/m3 500 ppm
ethyl acetate (CAS 141-78-6)	STEL	1100 mg/m3 300 ppm
	TWA	500 mg/m3 150 ppm
Ethyl benzene (CAS 100-41-4)	STEL	450 mg/m3 100 ppm
	TWA	200 mg/m3 50 ppm



**Sweden. Occupational Exposure Limit Values**

Components	Type	Value
methanol (CAS 67-56-1)	STEL	350 mg/m3 250 ppm
	TWA	250 mg/m3 200 ppm
n-PROPYL ACETATE (CAS 109-60-4)	STEL	800 mg/m3 200 ppm
	TWA	400 mg/m3 100 ppm
Toluene (CAS 108-88-3)	STEL	384 mg/m3 100 ppm
	TWA	192 mg/m3 50 ppm
Xylene (CAS 1330-20-7)	STEL	442 mg/m3 100 ppm
	TWA	221 mg/m3 50 ppm

**Switzerland. SUVA Grenzwerte am Arbeitsplatz**

Components	Type	Value
1-Propanol (CAS 71-23-8)	TWA	500 mg/m3 200 ppm
2-butanone (CAS 78-93-3)	STEL	590 mg/m3 200 ppm
	TWA	590 mg/m3 200 ppm
2-Butoxyethanol (CAS 111-76-2)	STEL	98 mg/m3 20 ppm
	TWA	49 mg/m3 10 ppm
2-Heptanone (CAS 110-43-0)	TWA	235 mg/m3 50 ppm
	STEL	2400 mg/m3 1000 ppm
acetone (CAS 67-64-1)	TWA	1200 mg/m3 500 ppm
	STEL	1920 mg/m3 1000 ppm
Ethanol (CAS 64-17-5)	TWA	960 mg/m3 500 ppm
	STEL	2800 mg/m3 800 ppm
ethyl acetate (CAS 141-78-6)	TWA	1400 mg/m3 400 ppm
	STEL	220 mg/m3 50 ppm
Ethyl benzene (CAS 100-41-4)	TWA	220 mg/m3 50 ppm
	STEL	1040 mg/m3 800 ppm
methanol (CAS 67-56-1)	TWA	260 mg/m3 200 ppm
	STEL	840 mg/m3 200 ppm
n-PROPYL ACETATE (CAS 109-60-4)	TWA	420 mg/m3 100 ppm
	STEL	760 mg/m3 200 ppm
Toluene (CAS 108-88-3)	TWA	260 mg/m3 200 ppm
	STEL	760 mg/m3 200 ppm

**Switzerland. SUVA Grenzwerte am Arbeitsplatz**

Components	Type	Value
Xylene (CAS 1330-20-7)	TWA	190 mg/m3 50 ppm
	STEL	870 mg/m3 200 ppm
	TWA	435 mg/m3 100 ppm

**UK. EH40 Workplace Exposure Limits (WELs)**

Components	Type	Value
1-Propanol (CAS 71-23-8)	STEL	625 mg/m3 250 ppm
	TWA	500 mg/m3 200 ppm
2-butanone (CAS 78-93-3)	STEL	899 mg/m3 300 ppm
	TWA	600 mg/m3 200 ppm
2-Butoxyethanol (CAS 111-76-2)	STEL	246 mg/m3
	TWA	50 ppm 123 mg/m3 25 ppm
2-Heptanone (CAS 110-43-0)	STEL	475 mg/m3
	TWA	100 ppm 237 mg/m3 50 ppm
acetone (CAS 67-64-1)	STEL	3620 mg/m3 1500 ppm
	TWA	1210 mg/m3 500 ppm
Ethanol (CAS 64-17-5)	TWA	1920 mg/m3 1000 ppm
	STEL	400 ppm
ethyl acetate (CAS 141-78-6)	TWA	200 ppm
	STEL	552 mg/m3
Ethyl benzene (CAS 100-41-4)	TWA	125 ppm 441 mg/m3 100 ppm
	STEL	333 mg/m3 250 ppm
methanol (CAS 67-56-1)	TWA	266 mg/m3 200 ppm
	STEL	1060 mg/m3
n-PROPYL ACETATE (CAS 109-60-4)	TWA	250 ppm 849 mg/m3 200 ppm
	STEL	384 mg/m3 100 ppm
Toluene (CAS 108-88-3)	TWA	191 mg/m3 50 ppm
	STEL	441 mg/m3 100 ppm
Xylene (CAS 1330-20-7)	TWA	220 mg/m3 50 ppm

**EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU**

Components	Type	Value
2-butanone (CAS 78-93-3)	STEL	900 mg/m3 300 ppm

**EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU**

<b>Components</b>	<b>Type</b>	<b>Value</b>
	TWA	600 mg/m3
		200 ppm
2-Butoxyethanol (CAS 111-76-2)	STEL	246 mg/m3
		50 ppm
	TWA	98 mg/m3
		20 ppm
2-Heptanone (CAS 110-43-0)	STEL	475 mg/m3
		100 ppm
	TWA	238 mg/m3
acetone (CAS 67-64-1)	TWA	50 ppm
		1210 mg/m3
Ethyl benzene (CAS 100-41-4)	STEL	500 ppm
		884 mg/m3
		200 ppm
	TWA	442 mg/m3
methanol (CAS 67-56-1)	TWA	100 ppm
		260 mg/m3
Toluene (CAS 108-88-3)	STEL	200 ppm
		384 mg/m3
		100 ppm
	TWA	192 mg/m3
		50 ppm
Xylene (CAS 1330-20-7)	STEL	442 mg/m3
		100 ppm
	TWA	221 mg/m3
		50 ppm

**Biological limit values**

**Czech Republic. Limit Values for Indicators of Biological Exposure Tests in Urine and Blood, Annex 2, Tables 1 and 2, Government Decree 432/2003 Sb.**

<b>Components</b>	<b>Value</b>	<b>Determinant</b>	<b>Specimen</b>	<b>Sampling Time</b>
2-Butoxyethanol (CAS 111-76-2)	200 mg/g	Butoxyacetic acid (with hydrolysis)	Creatinine in urine	*
	0,17 mmol/mmol	Butoxyacetic acid (with hydrolysis)	Creatinine in urine	*
Ethyl benzene (CAS 100-41-4)	1100 µmol/mmol	Mandelic acid	Creatinine in urine	*
	1500 mg/g	Mandelic acid	Creatinine in urine	*
methanol (CAS 67-56-1)	15 mg/l	Methanol	Urine	*
	0,47 mmol/l	Methanol	Urine	*
Toluene (CAS 108-88-3)	1000 µmol/mmol	Hippuric acid	Creatinine in urine	*
	1600 mg/g	Hippuric acid	Creatinine in urine	*
Xylene (CAS 1330-20-7)	820 µmol/mmol	Methylhippuric acids	Creatinine in urine	*
	1400 mg/g	Methylhippuric acids	Creatinine in urine	*

\* - For sampling details, please see the source document.

**Finland. HTP-arvot, App 2., Biological Limit Values, (BRA/BGV) , Social Affairs and Ministry of Health**

<b>Components</b>	<b>Value</b>	<b>Determinant</b>	<b>Specimen</b>	<b>Sampling Time</b>
Ethyl benzene (CAS 100-41-4)	5,2 mmol/l	Mandelic acid	Urine	*
Toluene (CAS 108-88-3)	500 nmol/l	Toluene concentration	Blood	*
Xylene (CAS 1330-20-7)	5 mmol/l	Methylhippuric acids	Urine	*

\* - For sampling details, please see the source document.

**France. Biological indicators of exposure (IBE) (National Institute for Research and Security (INRS, ND 2065))**

Components	Value	Determinant	Specimen	Sampling Time
2-butanone (CAS 78-93-3)	2 mg/l	Méthyléthylcétone	Urine	*
acetone (CAS 67-64-1)	100 mg/l	Acétone	Urine	*
Ethyl benzene (CAS 100-41-4)	1500 mg/g	Acide mandélique	Creatinine in urine	*
methanol (CAS 67-56-1)	15 mg/l	Méthanol	Urine	*
Toluene (CAS 108-88-3)	2500 mg/g	Acide hippurique	Creatinine in urine	*
	2500 mg/g	Acide hippurique	Creatinine in urine	*
	1 mg/l	Toluène	Venous blood	*
Xylene (CAS 1330-20-7)	1500 mg/g	Acides méthylhippuriques	Creatinine in urine	*

\* - For sampling details, please see the source document.

**Germany. TRGS 903, BAT List (Biological Limit Values)**

Components	Value	Determinant	Specimen	Sampling Time
2-butanone (CAS 78-93-3)	5 mg/l	2-Butanon	Urine	*
2-Butoxyethanol (CAS 111-76-2)	100 mg/l	Butoxyessigsäure	Urine	*
acetone (CAS 67-64-1)	80 mg/l	Aceton	Urine	*
Ethyl benzene (CAS 100-41-4)	300 mg/l	Mandelsäure plus Phenylglyoxylsäure	Urine	*
methanol (CAS 67-56-1)	30 mg/l	Methanol	Urine	*
Toluene (CAS 108-88-3)	600 µg/l	Toluol	Blood	*
	1,5 mg/l	o-Kresol (nach Hydrolyse)	Urine	*
Xylene (CAS 1330-20-7)	2000 mg/l	Methylhippur-(Tolur-) säure (alle Isomere)	Urine	*
	1,5 mg/l	Xylol	Blood	*

\* - For sampling details, please see the source document.

**Hungary. Chemical Safety at Workplace Ordinance Joint Decree No. 25/2000 (Annex 2): Permissible limit values of biological exposure (effect) indices**

Components	Value	Determinant	Specimen	Sampling Time
Ethyl benzene (CAS 100-41-4)	1500 mg/g	mandelic acid	Creatinine in urine	*
	1110 µmol/mmol	mandelic acid	Creatinine in urine	*
Toluene (CAS 108-88-3)	1 mg/g	o-crezol	Creatinine in urine	*
	1,05 µmol/mmol	o-crezol	Creatinine in urine	*
Xylene (CAS 1330-20-7)	1500 mg/g	methyl hippuric acids	Creatinine in urine	*
	860 µmol/mmol	methyl hippuric acids	Creatinine in urine	*

\* - For sampling details, please see the source document.

**Slovakia. BLVs (Biological Limit Value). Regulation no. 355/2006 concerning protection of workers exposed to chemical agents, Annex 2**

Components	Value	Determinant	Specimen	Sampling Time
acetone (CAS 67-64-1)	53,36 mg/g	Acetone	Creatinine in urine	*
	80 mg/l	Acetone	Urine	*
Ethyl benzene (CAS 100-41-4)	8,03 mg/g	2-ethylphenol	Creatinine in urine	*
	12 mg/l	2-ethylphenol	Urine	*
methanol (CAS 67-56-1)	20 mg/g	Methanol	Creatinine in urine	*
	30 mg/l	Methanol	Urine	*
Toluene (CAS 108-88-3)	600 µg/l	Toluene	Blood	*

**Slovakia. BLVs (Biological Limit Value). Regulation no. 355/2006 concerning protection of workers exposed to chemical agents, Annex 2**

Components	Value	Determinant	Specimen	Sampling Time
	1600 mg/g	Hippuric acid	Creatinine in urine	*
	1,03 mg/g	o-Cresol	Creatinine in urine	*
	2401 mg/l	Hippuric acid	Urine	*
	1,5 mg/l	o-Cresol	Urine	*
Xylene (CAS 1330-20-7)	1334 mg/g	Methylhippuric acids	Creatinine in urine	*
	2000 mg/l	Methylhippuric acids	Urine	*
	1,5 mg/l	xylene	Blood	*

\* - For sampling details, please see the source document.

**Spain. Biological Limit Values (VLBs), Occupational Exposure Limits for Chemical Agents, Table 4**

Components	Value	Determinant	Specimen	Sampling Time
2-butanone (CAS 78-93-3)	2 mg/l	Metiletilcetona	Urine	*
2-Butoxyethanol (CAS 111-76-2)	200 mg/g	Ácido butoxiacético, con hidrólisis	Creatinine in urine	*
acetone (CAS 67-64-1)	50 mg/l	Acetona	Urine	*
Ethyl benzene (CAS 100-41-4)	700 mg/g	Suma del acido mandélico y el ácido fenilglioxílico	Creatinine in urine	*
methanol (CAS 67-56-1)	15 mg/l	Metanol	Urine	*
Toluene (CAS 108-88-3)	1,6 g/g	Ácido hipúrico	Creatinine in urine	*
	0,5 mg/l	o-Cresol	Urine	*
	0,05 mg/l	Tolueno	Blood	*
Xylene (CAS 1330-20-7)	1 g/g	Ácidos metilhipúricos	Creatinine in urine	*

\* - For sampling details, please see the source document.

**Switzerland. BAT-Werte (Biological Limit Values in the Workplace as per SUVA)**

Components	Value	Determinant	Specimen	Sampling Time
2-butanone (CAS 78-93-3)	5 mg/l	2-Butanon (MEK)	Urine	*
2-Butoxyethanol (CAS 111-76-2)	200 mg/l	Gesamt-Butoxyessigsäure	Urine	*
	100 mg/l	Butoxyessigsäure	Urine	*
acetone (CAS 67-64-1)	80 mg/l	Aceton	Urine	*
Ethyl benzene (CAS 100-41-4)	800 mg/l	Mandelsäure plus Phenylglyoxylysäure	Urine	*
methanol (CAS 67-56-1)	30 mg/l	Methanol	Urine	*
Toluene (CAS 108-88-3)	600 µg/l	Toluol	Blood	*
	2 g/g	Hippursäure	Creatinine in urine	*
	0,5 mg/l	o-Kresol	Urine	*
Xylene (CAS 1330-20-7)	1,5 g/g	Methyl-Hippursäure	Creatinine in urine	*
	1,5 mg/l	Xylol	Blood	*

\* - For sampling details, please see the source document.

**UK. EH40 Biological Monitoring Guidance Values (BMGVs)**

Components	Value	Determinant	Specimen	Sampling Time
2-butanone (CAS 78-93-3)	70 µmol/l	Butan-2-one	Urine	*
2-Butoxyethanol (CAS 111-76-2)	240 mmol/mol	Butoxyacetic acid	Creatinine in urine	*
Xylene (CAS 1330-20-7)	650 mmol/mol	Methyl hippuric acid	Creatinine in urine	*

\* - For sampling details, please see the source document.

**Recommended monitoring procedures** Follow standard monitoring procedures.

**Derived no-effect level (DNEL)** Not available.

**Predicted no effect concentrations (PNECs)** Not available.

#### Exposure guidelines

##### EU Exposure Limit Values: Skin designation

2-Butoxyethanol (CAS 111-76-2)	Can be absorbed through the skin.
2-Heptanone (CAS 110-43-0)	Can be absorbed through the skin.
Ethyl benzene (CAS 100-41-4)	Can be absorbed through the skin.
methanol (CAS 67-56-1)	Can be absorbed through the skin.
Toluene (CAS 108-88-3)	Can be absorbed through the skin.
Xylene (CAS 1330-20-7)	Can be absorbed through the skin.

#### 8.2. Exposure controls

**Appropriate engineering controls** Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

#### Individual protection measures, such as personal protective equipment

**General information** Wear chemical protective equipment that is specifically recommended by the manufacturer. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

**Eye/face protection** Wear safety glasses with side shields (or goggles) and a face shield.

##### Skin protection

**- Hand protection** Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

**- Other** Wear appropriate chemical resistant clothing.

**Respiratory protection** If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

**Hygiene measures** When using do not smoke. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**Environmental exposure controls** Inform appropriate managerial or supervisory personnel of all environmental releases.

## SECTION 9: Physical and chemical properties

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

#### Appearance

<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid.
<b>Color</b>	Clear colorless or nearly colorless

**Odor** Solvent.

**Odor threshold** Not available.

**pH** Not available.

**Melting point/freezing point** -144,04 °F (-97,8 °C) estimated

**Initial boiling point and boiling range** 132,89 °F (56,05 °C) estimated

**Flash point** -4,0 °F (-20,0 °C) estimated

**Evaporation rate** Not available.

**Flammability (solid, gas)** Not applicable.

#### Upper/lower flammability or explosive limits

**Flammability limit - lower (%)** 1,3 % estimated

**Flammability limit - upper (%)** 36 % estimated

Vapor pressure	145,09 hPa estimated
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Solubility (other)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	464 °F (240 °C) estimated
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Oxidizing properties	Not available.
<b>9.2. Other information</b>	
Density	6,84 lbs/gal
Percent volatile	100 %
Specific gravity	0,82
VOC	6,1 lbs/gal Material 6,9 lbs/gal Regulatory 734 g/l Material 824 g/l Regulatory

## SECTION 10: Stability and reactivity

<b>10.1. Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>10.2. Chemical stability</b>	Material is stable under normal conditions.
<b>10.3. Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>10.4. Conditions to avoid</b>	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
<b>10.5. Incompatible materials</b>	Strong acids. Strong oxidizing agents. Halogens.
<b>10.6. Hazardous decomposition products</b>	No hazardous decomposition products are known.

## SECTION 11: Toxicological information

<b>General information</b>	Occupational exposure to the substance or mixture may cause adverse effects.
<b>Information on likely routes of exposure</b>	
<b>Inhalation</b>	Toxic if inhaled. May cause damage to organs by inhalation. May cause damage to organs through prolonged or repeated exposure by inhalation. May cause drowsiness and dizziness. Headache. Nausea, vomiting.
<b>Skin contact</b>	Toxic in contact with skin. Causes skin irritation.  2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans.
<b>Eye contact</b>	Causes serious eye damage.
<b>Ingestion</b>	Toxic if swallowed.
<b>Symptoms</b>	Headache. May cause drowsiness and dizziness. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.

### 11.1. Information on toxicological effects

**Acute toxicity** Toxic if inhaled. Toxic in contact with skin. Toxic if swallowed. Narcotic effects.

Components	Species	Test Results
1-Propanol (CAS 71-23-8)		
<u>Acute</u>		
<b>Oral</b>		
LD50	Mouse	6800 mg/kg
	Rabbit	2,8 g/kg
	Rat	1,87 g/kg

Components	Species	Test Results
2-butanone (CAS 78-93-3)		
<b><u>Acute</u></b>		
<b>Dermal</b>		
LD50	Rabbit	> 8000 mg/kg
<b>Inhalation</b>		
LC50	Mouse	11000 ppm, 45 Minutes
	Rat	11700 ppm, 4 Hours
<b>Oral</b>		
LD50	Mouse	670 mg/kg
	Rat	2300 - 3500 mg/kg
2-Butoxyethanol (CAS 111-76-2)		
<b><u>Acute</u></b>		
<b>Dermal</b>		
LD50	Rabbit	400 mg/kg
<b>Inhalation</b>		
LC50	Mouse	700 ppm, 7 Hours
	Rat	450 ppm, 4 Hours
<b>Oral</b>		
LD50	Guinea pig	1,2 g/kg
	Mouse	1,2 g/kg
	Rabbit	0,32 g/kg
	Rat	560 mg/kg
2-Heptanone (CAS 110-43-0)		
<b><u>Acute</u></b>		
<b>Dermal</b>		
LD50	Rabbit	12600 mg/kg
<b>Oral</b>		
LD50	Mouse	730 mg/kg
	Rat	1,67 g/kg
acetone (CAS 67-64-1)		
<b><u>Acute</u></b>		
<b>Dermal</b>		
LD50	Rabbit	20000 mg/kg 20 ml/kg
<b>Inhalation</b>		
LC50	Rat	76 mg/l, 4 Hours 50,1 mg/l, 8 Hours
<b>Oral</b>		
LD50	Mouse	3000 mg/kg
	Rabbit	5340 mg/kg
	Rat	5800 mg/kg
Ethanol (CAS 64-17-5)		
<b><u>Acute</u></b>		
<b>Inhalation</b>		
LC50	Mouse	39 mg/l, 4 Hours
	Rat	20000 ppm, 10 Hours
<b>Oral</b>		
LD50	Guinea pig	5,6 g/kg
	Mouse	3450 mg/kg
	Rat	6,2 g/kg



Components	Species	Test Results
ethyl acetate (CAS 141-78-6)		
<b><u>Acute</u></b>		
<b>Inhalation</b>		
LC50	Rat	16000 ppm, 6 Hours
LD50	Mouse	1500 ppm, 4 Hours
	Rabbit	2500 ppm, 4 Hours
	Rat	4000 ppm, 4 Hours
<b>Oral</b>		
LD50	Mouse	0,44 g/kg
	Rabbit	4,9 g/kg
	Rat	11,3 ml/kg
		5,6 g/kg
Ethyl benzene (CAS 100-41-4)		
<b><u>Acute</u></b>		
<b>Dermal</b>		
LD50	Rabbit	17800 mg/kg
<b>Oral</b>		
LD50	Rat	3500 mg/kg
methanol (CAS 67-56-1)		
<b><u>Acute</u></b>		
<b>Dermal</b>		
LD50	Rabbit	15800 mg/kg
<b>Inhalation</b>		
LC50	Rat	64000 ppm, 4 Hours
		87,5 mg/l, 6 Hours
<b>Oral</b>		
LD50	Monkey	2 g/kg
	Mouse	7300 mg/kg
	Rabbit	14,4 g/kg
	Rat	5628 mg/kg
n-PROPYL ACETATE (CAS 109-60-4)		
<b><u>Acute</u></b>		
<b>Oral</b>		
LD50	Mouse	8300 mg/kg
	Rabbit	6,64 g/kg
	Rat	9370 mg/kg
Toluene (CAS 108-88-3)		
<b><u>Acute</u></b>		
<b>Dermal</b>		
LD50	Rabbit	12124 mg/kg
		14,1 ml/kg
<b>Inhalation</b>		
LC50	Mouse	5320 ppm, 8 Hours
		400 ppm, 24 Hours
	Rat	26700 ppm, 1 Hours
		12200 ppm, 2 Hours
LD50	Rat	8000 ppm, 4 Hours
		2,6 g/kg

Components	Species	Test Results
Xylene (CAS 1330-20-7)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 43 g/kg
<b>Inhalation</b>		
LC50	Mouse	3907 mg/l, 6 Hours
	Rat	6350 mg/l, 4 Hours
<b>Oral</b>		
LD50	Mouse	1590 mg/kg
	Rat	3523 - 8600 mg/kg

\* Estimates for product may be based on additional component data not shown.

<b>Skin corrosion/irritation</b>	Causes skin irritation.
<b>Serious eye damage/eye irritation</b>	Causes serious eye damage.
<b>Respiratory sensitization</b>	Due to partial or complete lack of data the classification is not possible.
<b>Skin sensitization</b>	Due to partial or complete lack of data the classification is not possible.
<b>Germ cell mutagenicity</b>	Due to partial or complete lack of data the classification is not possible.
<b>Carcinogenicity</b>	Risk of cancer cannot be excluded with prolonged exposure.
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>	
2-Butoxyethanol (CAS 111-76-2)	3 Not classifiable as to carcinogenicity to humans.
Ethyl benzene (CAS 100-41-4)	2B Possibly carcinogenic to humans.
Toluene (CAS 108-88-3)	3 Not classifiable as to carcinogenicity to humans.
Xylene (CAS 1330-20-7)	3 Not classifiable as to carcinogenicity to humans.
<b>Reproductive toxicity</b>	Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals. Suspected of damaging the unborn child.
<b>Specific target organ toxicity - single exposure</b>	Causes damage to organs. May cause drowsiness and dizziness.
<b>Specific target organ toxicity - repeated exposure</b>	May cause damage to organs through prolonged or repeated exposure.
<b>Aspiration hazard</b>	Due to partial or complete lack of data the classification is not possible.
<b>Mixture versus substance information</b>	No information available.
<b>Other information</b>	Not available.

## SECTION 12: Ecological information

**12.1. Toxicity** Toxic to aquatic life with long lasting effects.

Components	Species	Test Results
1-Propanol (CAS 71-23-8)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea (Daphnia magna) 3339 - 3977 mg/l, 48 hours
Fish	LC50	Bleak (Alburnus alburnus) 3000 - 4000 mg/l, 96 hours
2-butanone (CAS 78-93-3)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea (Daphnia magna) 4025 - 6440 mg/l, 48 hours
Fish	LC50	Sheepshead minnow (Cyprinodon variegatus) > 400 mg/l, 96 hours
2-Butoxyethanol (CAS 111-76-2)		
<b>Aquatic</b>		
Fish	LC50	Inland silverside (Menidia beryllina) 1250 mg/l, 96 hours
2-Heptanone (CAS 110-43-0)		
<b>Aquatic</b>		
Fish	LC50	Fathead minnow (Pimephales promelas) 126 - 137 mg/l, 96 hours

Components	Species		Test Results
acetone (CAS 67-64-1)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea (Daphnia magna)	21,6 - 23,9 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	4740 - 6330 mg/l, 96 hours
Ethanol (CAS 64-17-5)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea (Daphnia magna)	7,7 - 11,2 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	> 100 mg/l, 96 hours
ethyl acetate (CAS 141-78-6)			
<b>Aquatic</b>			
Fish	LC50	Indian catfish (Heteropneustes fossilis)	200,32 - 225,42 mg/l, 96 hours
Ethyl benzene (CAS 100-41-4)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea (Daphnia magna)	1,37 - 4,4 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	7,5 - 11 mg/l, 96 hours
methanol (CAS 67-56-1)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea (Daphnia magna)	> 10000 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	> 100 mg/l, 96 hours
n-PROPYL ACETATE (CAS 109-60-4)			
<b>Aquatic</b>			
Fish	LC50	Fathead minnow (Pimephales promelas)	56 - 64 mg/l, 96 hours
Toluene (CAS 108-88-3)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea (Daphnia magna)	5,46 - 9,83 mg/l, 48 hours
Fish	LC50	Coho salmon,silver salmon (Oncorhynchus kisutch)	8,11 mg/l, 96 hours
Xylene (CAS 1330-20-7)			
<b>Aquatic</b>			
Fish	LC50	Bluegill (Lepomis macrochirus)	7,711 - 9,591 mg/l, 96 hours

\* Estimates for product may be based on additional component data not shown.

**12.2. Persistence and degradability** No data is available on the degradability of this product.

**12.3. Bioaccumulative potential**

**Partition coefficient**

**n-octanol/water (log Kow)**

1-Propanol	0,25
2-butanone	0,29
2-Butoxyethanol	0,83
2-Heptanone	1,98
acetone	-0,24
Ethanol	-0,31
ethyl acetate	0,73
Ethyl benzene	3,15
methanol	-0,77
n-PROPYL ACETATE	1,23
Toluene	2,73
Xylene	3,12 - 3,2

**Bioconcentration factor (BCF)** Not available.

**12.4. Mobility in soil** No data available.

**12.5. Results of PBT and vPvB assessment** Not available.

**12.6. Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

<b>Residual waste</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.
<b>EU waste code</b>	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Disposal methods/information</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Special precautions</b>	Dispose in accordance with all applicable regulations.

## SECTION 14: Transport information

### ADR

<b>14.1. UN number</b>	UN1263
<b>14.2. UN proper shipping name</b>	Paint, Paint Related Material
<b>14.3. Transport hazard class(es)</b>	
<b>Class</b>	3
<b>Subsidiary risk</b>	-
<b>Label(s)</b>	3
<b>Hazard No. (ADR)</b>	33
<b>Tunnel restriction code</b>	D/E
<b>14.4. Packing group</b>	II
<b>14.5. Environmental hazards</b>	Yes
<b>14.6. Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.

### RID

<b>14.1. UN number</b>	UN1263
<b>14.2. UN proper shipping name</b>	Paint, Paint Related Material
<b>14.3. Transport hazard class(es)</b>	
<b>Class</b>	3
<b>Subsidiary risk</b>	-
<b>Label(s)</b>	3
<b>14.4. Packing group</b>	II
<b>14.5. Environmental hazards</b>	Yes
<b>14.6. Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.

### ADN

<b>14.1. UN number</b>	UN1263
<b>14.2. UN proper shipping name</b>	Paint, Paint Related Material
<b>14.3. Transport hazard class(es)</b>	
<b>Class</b>	3
<b>Subsidiary risk</b>	-
<b>Label(s)</b>	3
<b>14.4. Packing group</b>	II
<b>14.5. Environmental hazards</b>	Yes
<b>14.6. Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.

### IATA

<b>14.1. UN number</b>	UN1263
<b>14.2. UN proper shipping name</b>	Paint, Paint Related Material
<b>14.3. Transport hazard class(es)</b>	
<b>Class</b>	3
<b>Subsidiary risk</b>	-
<b>14.4. Packing group</b>	II
<b>14.5. Environmental hazards</b>	Yes
<b>ERG Code</b>	3H

**14.6. Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

**Other information**

**Passenger and cargo aircraft** Allowed.

**Cargo aircraft only** Allowed.

**IMDG**

**14.1. UN number** UN1263

**14.2. UN proper shipping name** Paint, Paint Related Material

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

**Class** 3

**Subsidiary risk** -

**14.4. Packing group** II

**14.5. Environmental hazards**

**Marine pollutant** Yes

**EmS** F-E, S-E

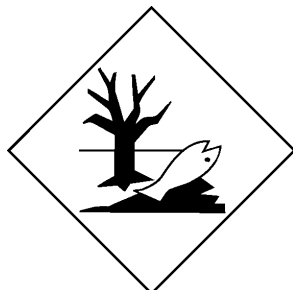
**14.6. Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not established.

**ADN; ADR; IATA; IMDG; RID**



**Marine pollutant**



**General information**

IMDG Regulated Marine Pollutant.

## SECTION 15: Regulatory information

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

**EU regulations**

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I, as amended**  
Not listed.

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II, as amended**  
Not listed.

**Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended**  
Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended**  
Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended**  
Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended**  
Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended**

Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended**

Not listed.

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA**

Not listed.

#### **Authorizations**

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended**

Not listed.

#### **Restrictions on use**

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**

1-Propanol (CAS 71-23-8)  
2-butanone (CAS 78-93-3)  
acetone (CAS 67-64-1)  
Ethanol (CAS 64-17-5)  
ethyl acetate (CAS 141-78-6)  
Ethyl benzene (CAS 100-41-4)  
methanol (CAS 67-56-1)  
n-PROPYL ACETATE (CAS 109-60-4)  
Toluene (CAS 108-88-3)

**Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended**

Not listed.

**Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding, as amended**

Toluene (CAS 108-88-3)

#### **Other EU regulations**

**Directive 2012/18/EU on major accident hazards involving dangerous substances**

1-Propanol (CAS 71-23-8)  
2-butanone (CAS 78-93-3)  
2-Heptanone (CAS 110-43-0)  
acetone (CAS 67-64-1)  
Ethanol (CAS 64-17-5)  
ethyl acetate (CAS 141-78-6)  
Ethyl benzene (CAS 100-41-4)  
methanol (CAS 67-56-1)  
n-PROPYL ACETATE (CAS 109-60-4)  
Toluene (CAS 108-88-3)  
Xylene (CAS 1330-20-7)

**Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended**

1-Propanol (CAS 71-23-8)  
2-butanone (CAS 78-93-3)  
2-Butoxyethanol (CAS 111-76-2)  
2-Heptanone (CAS 110-43-0)  
acetone (CAS 67-64-1)  
Ethanol (CAS 64-17-5)  
ethyl acetate (CAS 141-78-6)  
Ethyl benzene (CAS 100-41-4)  
methanol (CAS 67-56-1)  
n-PROPYL ACETATE (CAS 109-60-4)  
Toluene (CAS 108-88-3)  
Xylene (CAS 1330-20-7)

**Directive 94/33/EC on the protection of young people at work, as amended**

Ethyl benzene (CAS 100-41-4)  
methanol (CAS 67-56-1)  
Toluene (CAS 108-88-3)

#### **Other regulations**

The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006. Pregnant women should not work with the product, if there is the least risk of exposure.

#### **National regulations**

Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work. Follow national regulation for work with chemical agents.

**15.2. Chemical safety assessment**

No Chemical Safety Assessment has been carried out.

**SECTION 16: Other information**

**List of abbreviations**

Not available.

**References**

Not available.

**Information on evaluation method leading to the classification of mixture**

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

**Full text of any statements or R-phrases and H-statements under Sections 2 to 15**

R10 Flammable.  
R11 Highly flammable.  
R20 Harmful by inhalation.  
R20/21 Harmful by inhalation and in contact with skin.  
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.  
R20/22 Harmful by inhalation and if swallowed.  
R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.  
R36 Irritating to eyes.  
R36/38 Irritating to eyes and skin.  
R38 Irritating to skin.  
R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.  
R41 Risk of serious damage to eyes.  
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.  
R63 Possible risk of harm to the unborn child.  
R65 Harmful: may cause lung damage if swallowed.  
R66 Repeated exposure may cause skin dryness or cracking.  
R67 Vapors may cause drowsiness and dizziness.  
H225 Highly flammable liquid and vapor.  
H226 Flammable liquid and vapor.  
H304 May be fatal if swallowed and enters airways.  
H312 Harmful in contact with skin.  
H315 Causes skin irritation.  
H332 Harmful if inhaled.  
H336 May cause drowsiness or dizziness.  
H351 Suspected of causing cancer.  
H361d Suspected of damaging the unborn child.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H411 Toxic to aquatic life with long lasting effects.

**Revision information**

None.

**Training information**

Follow training instructions when handling this material.

**Disclaimer**

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