

## 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>	Universal Urethane Clearcoat 4.2 VOC
<b>Registration number</b>	-
<b>Synonyms</b>	None.
<b>Product Code</b>	10-4
<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 Clearcoat
<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, Carc. Cat. 2;R45, Muta. Cat. 2;R46, Xn;R20, Xi;R36, R66

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, inhalation	Category 4	H332 - Harmful if inhaled.
Serious eye damage/eye irritation	Category 2	H319 - Causes serious eye irritation.
Germ cell mutagenicity	Category 1B	H340 - May cause genetic defects.
Carcinogenicity	Category 1B	H350 - May cause cancer.
Specific target organ toxicity - single exposure	Category 3 narcotic effects	H336 - May cause drowsiness or dizziness.

##### Environmental hazards

Hazardous to the aquatic environment, long-term aquatic hazard	Category 3	H412 - Harmful to aquatic life with long lasting effects.
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#### Hazard summary

<b>Physical hazards</b>	Highly flammable.
<b>Health hazards</b>	May cause cancer. May cause heritable genetic damage. Also harmful by inhalation. Irritating to eyes. Repeated exposure may cause skin dryness or cracking. Occupational exposure to the substance or mixture may cause adverse health effects.
<b>Environmental hazards</b>	Not classified for hazards to the environment.

<b>Specific hazards</b>	Prolonged exposure may cause chronic effects.
<b>Main symptoms</b>	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

## 2.2. Label elements

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

**Contains:** 1,2,4-Trimethylbenzene, 2-Butoxyethyl acetate, acetone, Cumene, Ethyl benzene, light aromatic solvent naphtha, methyl isoamyl ketone, n-butyl acetate, Xylene

### Hazard pictograms



### Signal word

Danger

### Hazard statements

H225	Highly flammable liquid and vapor.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects.
H350	May cause cancer.
H412	Harmful 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.
P261	Avoid breathing mist or vapor.
P264	Wash thoroughly after handling.
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

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.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a POISON CENTER/doctor if you feel unwell.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P370 + P378	In case of fire: Use appropriate media to extinguish.

#### 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.
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### Supplemental label information

38,95% of the mixture consists of component(s) of unknown acute inhalation toxicity. 49,96% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment. EUH066 - Repeated exposure may cause skin dryness or cracking. EUH208 - Contains Methyl methacrylate. May produce an allergic reaction.

## 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
acetone	20 - < 30	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> -				
methyl isoamyl ketone	10 - < 20	110-12-3 203-737-8	-	606-026-00-4	#
<b>Classification:</b>	<b>DSD:</b> R10, Xn;R20				
	<b>CLP:</b> -				
n-butyl acetate	10 - < 20	123-86-4 204-658-1	-	607-025-00-1	
<b>Classification:</b>	<b>DSD:</b> R10, R66-67				
	<b>CLP:</b> Flam. Liq. 3;H226, STOT SE 3;H336, Aquatic Chronic 3;H412				
Xylene	5 - < 10	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
1,2,4-Trimethylbenzene	1 - < 3	95-63-6 202-436-9	-	601-043-00-3	#
<b>Classification:</b>	<b>DSD:</b> R10, Xn;R20, Xi;R36/37/38, N;R51/53				
	<b>CLP:</b> Flam. Liq. 3;H226, Skin Irrit. 2;H315, Eye Irrit. 2;H319, Acute Tox. 4;H332, STOT SE 3;H335, Aquatic Chronic 2;H411				
2-Butoxyethyl acetate	1 - < 3	112-07-2 203-933-3	-	607-038-00-2	#
<b>Classification:</b>	<b>DSD:</b> Xn;R20/21				
	<b>CLP:</b> -				
Ethyl benzene	1 - < 3	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				
light aromatic solvent naphtha	< 1	64742-95-6 265-199-0	-	649-356-00-4	
<b>Classification:</b>	<b>DSD:</b> Carc. Cat. 2;R45, Muta. Cat. 2;R46, Xn;R65				P
	<b>CLP:</b> Asp. Tox. 1;H304, Muta. 1B;H340, Carc. 1B;H350				P
Methyl methacrylate	< 1	80-62-6 201-297-1	-	607-035-00-6	
<b>Classification:</b>	<b>DSD:</b> F;R11, Xi;R37/38, R43				D
	<b>CLP:</b> Flam. Liq. 2;H225, Skin Irrit. 2;H315, Skin Sens. 1;H317, STOT SE 3;H335				D
Cumene	< 0,2	98-82-8 202-704-5	-	601-024-00-X	#
<b>Classification:</b>	<b>DSD:</b> R10, Xn;R65, Xi;R37, N;R51/53				C
	<b>CLP:</b> -				C
Other components below reportable levels	30 - < 40				

## 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

**General information** Take off all contaminated clothing immediately. 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.

### 4.1. Description of first aid measures

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell.

**Skin contact** Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if irritation develops and persists.

**Eye contact** 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 if irritation develops and persists.

**Ingestion** Rinse mouth. Get medical attention if symptoms occur.

**4.2. Most important symptoms and effects, both acute and delayed** May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

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

**General fire hazards** Highly flammable liquid and vapor.

### 5.1. Extinguishing media

**Suitable extinguishing media** Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

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

### 5.3. Advice for firefighters

**Special protective equipment for firefighters** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Special fire fighting procedures** In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

**Specific methods** Use standard firefighting procedures and consider the hazards of other involved materials.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** 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. Avoid inhalation of vapors and spray mists. 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.

**For emergency responders** Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Use personal protection recommended in Section 8 of the SDS.

**6.2. Environmental precautions** 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.

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

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 product from entering drains. 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.

### 6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

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. When using do not smoke. 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. Avoid inhalation of vapors and spray mists. Avoid contact with eyes. Avoid prolonged exposure. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

### 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

Components	Type	Value
1,2,4-Trimethylbenzene (CAS 95-63-6)	MAK	100 mg/m3
	STEL	20 ppm 150 mg/m3 30 ppm
	MAK	133 mg/m3
2-Butoxyethyl acetate (CAS 112-07-2)	STEL	20 ppm 270 mg/m3 40 ppm
	MAK	1200 mg/m3 500 ppm
acetone (CAS 67-64-1)	STEL	4800 mg/m3 2000 ppm
	MAK	100 mg/m3 20 ppm
Cumene (CAS 98-82-8)	STEL	250 mg/m3 20 ppm
	Ceiling	880 mg/m3
Ethyl benzene (CAS 100-41-4)	MAK	200 ppm 440 mg/m3 100 ppm
	MAK	95 mg/m3
methyl isoamyl ketone (CAS 110-12-3)	MAK	20 ppm
	Ceiling	420 mg/m3
Methyl methacrylate (CAS 80-62-6)	Ceiling	100 ppm

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

Components	Type	Value
	MAK	210 mg/m3
		50 ppm
n-butyl acetate (CAS 123-86-4)	Ceiling	480 mg/m3
		100 ppm
	MAK	480 mg/m3
		100 ppm
Trimethylbenzene (CAS 25551-13-7)	MAK	100 mg/m3
		20 ppm
	STEL	150 mg/m3
		30 ppm
Xylene (CAS 1330-20-7)	MAK	221 mg/m3
		50 ppm
	STEL	442 mg/m3
		100 ppm

**Belgium. Exposure Limit Values.**

Components	Type	Value
1,2,4-Trimethylbenzene (CAS 95-63-6)	TWA	100 mg/m3
		20 ppm
2-Butoxyethyl acetate (CAS 112-07-2)	STEL	333 mg/m3
		50 ppm
	TWA	133 mg/m3
		20 ppm
acetone (CAS 67-64-1)	STEL	2420 mg/m3
		1000 ppm
	TWA	1210 mg/m3
		500 ppm
Cumene (CAS 98-82-8)	STEL	250 mg/m3
		50 ppm
	TWA	100 mg/m3
		20 ppm
Ethyl benzene (CAS 100-41-4)	STEL	551 mg/m3
		125 ppm
	TWA	442 mg/m3
		100 ppm
methyl isoamyl ketone (CAS 110-12-3)	TWA	95 mg/m3
		20 ppm
Methyl methacrylate (CAS 80-62-6)	STEL	416 mg/m3
		100 ppm
	TWA	208 mg/m3
		50 ppm
n-butyl acetate (CAS 123-86-4)	STEL	964 mg/m3
		200 ppm
	TWA	723 mg/m3
		150 ppm
Trimethylbenzene (CAS 25551-13-7)	TWA	100 mg/m3
		20 ppm
Xylene (CAS 1330-20-7)	STEL	442 mg/m3
		100 ppm
	TWA	221 mg/m3
		50 ppm

**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>
1,2,4-Trimethylbenzene (CAS 95-63-6)	TWA	100 mg/m3
		20 ppm
2-Butoxyethyl acetate (CAS 112-07-2)	STEL	333 mg/m3
		50 ppm
acetone (CAS 67-64-1)	TWA	133 mg/m3
		20 ppm
Cumene (CAS 98-82-8)	STEL	1400 mg/m3
		600 mg/m3
Ethyl benzene (CAS 100-41-4)	TWA	250 mg/m3
		50 ppm
methyl isoamyl ketone (CAS 110-12-3)	STEL	100 mg/m3
		20 ppm
Methyl methacrylate (CAS 80-62-6)	TWA	545 mg/m3
		50 ppm
n-butyl acetate (CAS 123-86-4)	STEL	435 mg/m3
		95 mg/m3
Xylene (CAS 1330-20-7)	TWA	20 ppm
		710 mg/m3
	STEL	442 mg/m3
		100 ppm
	TWA	221 mg/m3
		50 ppm

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

<b>Components</b>	<b>Type</b>	<b>Value</b>
1,2,4-Trimethylbenzene (CAS 95-63-6)	MAC	100 mg/m3
		20 ppm
2-Butoxyethyl acetate (CAS 112-07-2)	MAC	133 mg/m3
		20 ppm
acetone (CAS 67-64-1)	STEL	333 mg/m3
		50 ppm
Cumene (CAS 98-82-8)	MAC	1210 mg/m3
		500 ppm
Ethyl benzene (CAS 100-41-4)	STEL	3620 mg/m3
		1500 ppm
methyl isoamyl ketone (CAS 110-12-3)	MAC	100 mg/m3
		20 ppm
Methyl methacrylate (CAS 80-62-6)	STEL	442 mg/m3
		100 ppm
n-butyl acetate (CAS 123-86-4)	MAC	884 mg/m3
		200 ppm
	STEL	95 mg/m3
		20 ppm
	MAC	50 ppm
		100 ppm
	STEL	724 mg/m3
		150 ppm
	STEL	966 mg/m3
		200 ppm

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

Components	Type	Value
Trimethylbenzene (CAS 25551-13-7)	MAC	125 mg/m3
		25 ppm
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
Cumene (CAS 98-82-8)	TWA	245 mg/m3
		50 ppm
n-butyl acetate (CAS 123-86-4)	TWA	710 mg/m3
		150 ppm

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

Components	Type	Value
1,2,4-Trimethylbenzene (CAS 95-63-6)	Ceiling	250 mg/m3
	TWA	100 mg/m3
2-Butoxyethyl acetate (CAS 112-07-2)	Ceiling	300 mg/m3
	TWA	130 mg/m3
acetone (CAS 67-64-1)	Ceiling	1500 mg/m3
	TWA	800 mg/m3
Cumene (CAS 98-82-8)	Ceiling	250 mg/m3
	TWA	100 mg/m3
Ethyl benzene (CAS 100-41-4)	Ceiling	500 mg/m3
	TWA	200 mg/m3
methyl isoamyl ketone (CAS 110-12-3)	Ceiling	200 mg/m3
	TWA	95 mg/m3
Methyl methacrylate (CAS 80-62-6)	Ceiling	150 mg/m3
	TWA	50 mg/m3
n-butyl acetate (CAS 123-86-4)	Ceiling	1200 mg/m3
	TWA	950 mg/m3
Xylene (CAS 1330-20-7)	Ceiling	400 mg/m3
	TWA	200 mg/m3

**Denmark. Exposure Limit Values**

Components	Type	Value
1,2,4-Trimethylbenzene (CAS 95-63-6)	TLV	100 mg/m3
		20 ppm
2-Butoxyethyl acetate (CAS 112-07-2)	TLV	134 mg/m3
		20 ppm
acetone (CAS 67-64-1)	TLV	600 mg/m3
		250 ppm
Cumene (CAS 98-82-8)	TLV	100 mg/m3
		20 ppm
Ethyl benzene (CAS 100-41-4)	TLV	217 mg/m3
		50 ppm
methyl isoamyl ketone (CAS 110-12-3)	TLV	95 mg/m3
		20 ppm
Methyl methacrylate (CAS 80-62-6)	TLV	102 mg/m3
		25 ppm
n-butyl acetate (CAS 123-86-4)	TLV	710 mg/m3



**Denmark. Exposure Limit Values  
Components**

Components	Type	Value
Trimethylbenzene (CAS 25551-13-7)	TLV	150 ppm
		100 mg/m3
Xylene (CAS 1330-20-7)	TLV	20 ppm
		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
1,2,4-Trimethylbenzene (CAS 95-63-6)	TWA	100 mg/m3
		20 ppm
2-Butoxyethyl acetate (CAS 112-07-2)	STEL	333 mg/m3
		50 ppm
acetone (CAS 67-64-1)	TWA	133 mg/m3
		20 ppm
		1210 mg/m3
Cumene (CAS 98-82-8)	STEL	500 ppm
		250 mg/m3
		50 ppm
Ethyl benzene (CAS 100-41-4)	TWA	100 mg/m3
		20 ppm
		884 mg/m3
methyl isoamyl ketone (CAS 110-12-3)	STEL	200 ppm
		442 mg/m3
		100 ppm
Methyl methacrylate (CAS 80-62-6)	TWA	95 mg/m3
		20 ppm
n-butyl acetate (CAS 123-86-4)	STEL	100 ppm
		50 ppm
Xylene (CAS 1330-20-7)	TWA	700 mg/m3
		150 ppm
		500 mg/m3
Xylene (CAS 1330-20-7)	STEL	100 ppm
		450 mg/m3
		100 ppm
Xylene (CAS 1330-20-7)	TWA	200 mg/m3
		50 ppm
		50 ppm

**Finland. Workplace Exposure Limits  
Components**

Components	Type	Value
1,2,4-Trimethylbenzene (CAS 95-63-6)	TWA	100 mg/m3
		20 ppm
2-Butoxyethyl acetate (CAS 112-07-2)	STEL	330 mg/m3
		50 ppm
acetone (CAS 67-64-1)	TWA	130 mg/m3
		20 ppm
		1500 mg/m3
Cumene (CAS 98-82-8)	STEL	630 ppm
		1200 mg/m3
		500 ppm
Ethyl benzene (CAS 100-41-4)	TWA	250 mg/m3
		50 ppm
		100 mg/m3
Ethyl benzene (CAS 100-41-4)	STEL	20 ppm
		880 mg/m3

**Finland. Workplace Exposure Limits**

Components	Type	Value
		200 ppm
	TWA	220 mg/m3
		50 ppm
light aromatic solvent	TWA	100 mg/m3
naphtha (CAS 64742-95-6)		
methyl isoamyl ketone	TWA	95 mg/m3
(CAS 110-12-3)		
Methyl methacrylate (CAS		20 ppm
80-62-6)	STEL	210 mg/m3
		50 ppm
	TWA	42 mg/m3
		10 ppm
n-butyl acetate (CAS	STEL	960 mg/m3
123-86-4)		
		200 ppm
	TWA	720 mg/m3
		150 ppm
Trimethylbenzene (CAS	TWA	100 mg/m3
25551-13-7)		
		20 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**

Components	Type	Value
1,2,4-Trimethylbenzene	VLE	250 mg/m3
(CAS 95-63-6)		
		50 ppm
	VME	100 mg/m3
		20 ppm
2-Butoxyethyl acetate (CAS	VLE	333 mg/m3
112-07-2)		
		50 ppm
	VME	66,5 mg/m3
		10 ppm
acetone (CAS 67-64-1)	VLE	2420 mg/m3
		1000 ppm
	VME	1210 mg/m3
		500 ppm
Cumene (CAS 98-82-8)	VLE	250 mg/m3
		50 ppm
	VME	100 mg/m3
		20 ppm
Ethyl benzene (CAS	VLE	442 mg/m3
100-41-4)		
		100 ppm
	VME	88,4 mg/m3
		20 ppm
methyl isoamyl ketone	VLE	475 mg/m3
(CAS 110-12-3)		
		100 ppm
	VME	95 mg/m3
		20 ppm
Methyl methacrylate (CAS	VLE	410 mg/m3
80-62-6)		
		100 ppm
	VME	205 mg/m3
		50 ppm
n-butyl acetate (CAS	VLE	940 mg/m3
123-86-4)		
		200 ppm

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

Components	Type	Value
Xylene (CAS 1330-20-7)	VME	710 mg/m3
		150 ppm
	VLE	442 mg/m3
		100 ppm
	VME	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)**

Components	Type	Value	Form
1,2,4-Trimethylbenzene (CAS 95-63-6)	TWA	100 mg/m3	
2-Butoxyethyl acetate (CAS 112-07-2)	TWA	20 ppm	Vapor and aerosol.
		66 mg/m3	
acetone (CAS 67-64-1)	TWA	10 ppm	Vapor and aerosol.
		1200 mg/m3	
Cumene (CAS 98-82-8)	TWA	500 ppm	
		50 mg/m3	
Ethyl benzene (CAS 100-41-4)	TWA	10 ppm	
		88 mg/m3	
methyl isoamyl ketone (CAS 110-12-3)	TWA	20 ppm	
		47 mg/m3	
Methyl methacrylate (CAS 80-62-6)	TWA	10 ppm	
		210 mg/m3	
n-butyl acetate (CAS 123-86-4)	TWA	50 ppm	
		480 mg/m3	
Trimethylbenzene (CAS 25551-13-7)	TWA	100 ppm	
		100 mg/m3	
Xylene (CAS 1330-20-7)	TWA	20 ppm	
		440 mg/m3	
		100 ppm	

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

Components	Type	Value	Form
1,2,4-Trimethylbenzene (CAS 95-63-6)	AGW	100 mg/m3	
2-Butoxyethyl acetate (CAS 112-07-2)	AGW	20 ppm	Vapor and aerosol.
		130 mg/m3	
acetone (CAS 67-64-1)	AGW	20 ppm	Vapor and aerosol.
		1200 mg/m3	
Cumene (CAS 98-82-8)	AGW	500 ppm	
		100 mg/m3	
Ethyl benzene (CAS 100-41-4)	AGW	20 ppm	
		88 mg/m3	
methyl isoamyl ketone (CAS 110-12-3)	AGW	20 ppm	
		95 mg/m3	
Methyl methacrylate (CAS 80-62-6)	AGW	20 ppm	
		210 mg/m3	
n-butyl acetate (CAS 123-86-4)	AGW	50 ppm	
		300 mg/m3	
Trimethylbenzene (CAS 25551-13-7)	AGW	62 ppm	
		100 mg/m3	
Xylene (CAS 1330-20-7)	AGW	440 mg/m3	
		100 ppm	

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

Components	Type	Value
1,2,4-Trimethylbenzene (CAS 95-63-6)	TWA	125 mg/m3 25 ppm
2-Butoxyethyl acetate (CAS 112-07-2)	STEL	270 mg/m3 40 ppm
	TWA	135 mg/m3 20 ppm
acetone (CAS 67-64-1)	STEL	3560 mg/m3
	TWA	1780 mg/m3
Cumene (CAS 98-82-8)	STEL	370 mg/m3 75 ppm
	TWA	245 mg/m3 50 ppm
Ethyl benzene (CAS 100-41-4)	STEL	545 mg/m3 125 ppm
	TWA	435 mg/m3 100 ppm
methyl isoamyl ketone (CAS 110-12-3)	STEL	360 mg/m3 75 ppm
	TWA	240 mg/m3 50 ppm
n-butyl acetate (CAS 123-86-4)	STEL	950 mg/m3 200 ppm
	TWA	710 mg/m3 150 ppm
Xylene (CAS 1330-20-7)	STEL	650 mg/m3 150 ppm
	TWA	435 mg/m3 100 ppm

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

Components	Type	Value
1,2,4-Trimethylbenzene (CAS 95-63-6)	TWA	100 mg/m3
2-Butoxyethyl acetate (CAS 112-07-2)	STEL	333 mg/m3
	TWA	133 mg/m3
acetone (CAS 67-64-1)	STEL	2420 mg/m3
	TWA	1210 mg/m3
Cumene (CAS 98-82-8)	STEL	250 mg/m3
	TWA	100 mg/m3
Ethyl benzene (CAS 100-41-4)	STEL	884 mg/m3
	TWA	442 mg/m3
methyl isoamyl ketone (CAS 110-12-3)	TWA	230 mg/m3
Methyl methacrylate (CAS 80-62-6)	STEL	415 mg/m3
	TWA	208 mg/m3
n-butyl acetate (CAS 123-86-4)	STEL	950 mg/m3
	TWA	950 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
1,2,4-Trimethylbenzene (CAS 95-63-6)	TWA	100 mg/m3 20 ppm

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

<b>Components</b>	<b>Type</b>	<b>Value</b>
2-Butoxyethyl acetate (CAS 112-07-2)	STEL	333 mg/m3
		50 ppm
	TWA	133 mg/m3
		20 ppm
acetone (CAS 67-64-1)	TWA	600 mg/m3
		250 ppm
Cumene (CAS 98-82-8)	STEL	250 mg/m3
		50 ppm
	TWA	100 mg/m3
		20 ppm
Ethyl benzene (CAS 100-41-4)	STEL	884 mg/m3
		200 ppm
	TWA	200 mg/m3
		50 ppm
methyl isoamyl ketone (CAS 110-12-3)	TWA	95 mg/m3
		20 ppm
Methyl methacrylate (CAS 80-62-6)	STEL	100 ppm
		50 ppm
n-butyl acetate (CAS 123-86-4)	TWA	700 mg/m3
		150 ppm
Trimethylbenzene (CAS 25551-13-7)	TWA	100 mg/m3
		20 ppm
Xylene (CAS 1330-20-7)	STEL	442 mg/m3
		100 ppm
	TWA	109 mg/m3
		25 ppm

**Ireland. Occupational Exposure Limits**

<b>Components</b>	<b>Type</b>	<b>Value</b>
1,2,4-Trimethylbenzene (CAS 95-63-6)	TWA	100 mg/m3
		20 ppm
2-Butoxyethyl acetate (CAS 112-07-2)	STEL	333 mg/m3
		50 ppm
	TWA	133 mg/m3
		20 ppm
acetone (CAS 67-64-1)	TWA	1210 mg/m3
		500 ppm
Cumene (CAS 98-82-8)	STEL	250 mg/m3
		50 ppm
	TWA	100 mg/m3
		20 ppm
Ethyl benzene (CAS 100-41-4)	STEL	884 mg/m3
		200 ppm
	TWA	442 mg/m3
		100 ppm
methyl isoamyl ketone (CAS 110-12-3)	TWA	95 mg/m3
		20 ppm
Methyl methacrylate (CAS 80-62-6)	STEL	100 ppm
		50 ppm
n-butyl acetate (CAS 123-86-4)	TWA	950 mg/m3
	STEL	200 ppm
	TWA	710 mg/m3
		150 ppm

**Ireland. Occupational Exposure Limits**

Components	Type	Value
Trimethylbenzene (CAS 25551-13-7)	TWA	100 mg/m3
Xylene (CAS 1330-20-7)		20 ppm
	STEL	442 mg/m3
	TWA	100 ppm
		221 mg/m3
		50 ppm

**Italy. Occupational Exposure Limits**

Components	Type	Value
1,2,4-Trimethylbenzene (CAS 95-63-6)	TWA	100 mg/m3
2-Butoxyethyl acetate (CAS 112-07-2)	STEL	20 ppm
		333 mg/m3
acetone (CAS 67-64-1)	TWA	50 ppm
		133 mg/m3
Cumene (CAS 98-82-8)	TWA	20 ppm
		1210 mg/m3
Ethyl benzene (CAS 100-41-4)	STEL	500 ppm
		250 mg/m3
methyl isoamyl ketone (CAS 110-12-3)	TWA	50 ppm
		100 mg/m3
Methyl methacrylate (CAS 80-62-6)	STEL	20 ppm
		884 mg/m3
n-butyl acetate (CAS 123-86-4)	TWA	200 ppm
	STEL	100 ppm
Trimethylbenzene (CAS 25551-13-7)	TWA	50 ppm
		200 ppm
Xylene (CAS 1330-20-7)	TWA	442 mg/m3
	STEL	100 ppm
		221 mg/m3
		50 ppm

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

Components	Type	Value
1,2,4-Trimethylbenzene (CAS 95-63-6)	TWA	100 mg/m3
2-Butoxyethyl acetate (CAS 112-07-2)	STEL	20 ppm
		333 mg/m3
acetone (CAS 67-64-1)	TWA	50 ppm
		133 mg/m3
Cumene (CAS 98-82-8)	TWA	20 ppm
		1210 mg/m3
Ethyl benzene (CAS 100-41-4)	STEL	500 ppm
		250 mg/m3
	TWA	50 ppm
		100 mg/m3
	STEL	20 ppm
		884 mg/m3
		200 ppm
	TWA	442 mg/m3

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

<b>Components</b>	<b>Type</b>	<b>Value</b>
methyl isoamyl ketone (CAS 110-12-3)	TWA	100 ppm
		95 mg/m3
Methyl methacrylate (CAS 80-62-6)	TWA	20 ppm
		10 mg/m3
n-butyl acetate (CAS 123-86-4)	TWA	200 mg/m3
Xylene (CAS 1330-20-7)	STEL	442 mg/m3
	TWA	100 ppm 221 mg/m3 50 ppm

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

<b>Components</b>	<b>Type</b>	<b>Value</b>
1,2,4-Trimethylbenzene (CAS 95-63-6)	TWA	100 mg/m3
		20 ppm
2-Butoxyethyl acetate (CAS 112-07-2)	STEL	140 mg/m3
		20 ppm
acetone (CAS 67-64-1)	TWA	70 mg/m3
		10 ppm
		2420 mg/m3
Cumene (CAS 98-82-8)	STEL	1000 ppm
		1210 mg/m3
		500 ppm
Ethyl benzene (CAS 100-41-4)	TWA	170 mg/m3
		35 ppm
		120 mg/m3
methyl isoamyl ketone (CAS 110-12-3)	STEL	25 ppm
		884 mg/m3
		200 ppm
Methyl methacrylate (CAS 80-62-6)	TWA	442 mg/m3
		100 ppm
		190 mg/m3
n-butyl acetate (CAS 123-86-4)	STEL	40 ppm
		95 mg/m3
		20 ppm
Trimethylbenzene (CAS 25551-13-7)	TWA	400 mg/m3
		100 ppm
		200 mg/m3
Xylene (CAS 1330-20-7)	STEL	50 ppm
		700 mg/m3
		150 ppm
Xylene (CAS 1330-20-7)	TWA	500 mg/m3
		100 ppm
		100 mg/m3
Xylene (CAS 1330-20-7)	TWA	20 ppm
		450 mg/m3
		100 ppm
Xylene (CAS 1330-20-7)	TWA	200 mg/m3
		50 ppm
		50 ppm

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

<b>Components</b>	<b>Type</b>	<b>Value</b>
1,2,4-Trimethylbenzene (CAS 95-63-6)	TWA	100 mg/m3
		20 ppm

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

<b>Components</b>	<b>Type</b>	<b>Value</b>
2-Butoxyethyl acetate (CAS 112-07-2)	STEL	333 mg/m3
		50 ppm
acetone (CAS 67-64-1)	TWA	133 mg/m3
		20 ppm
	TWA	1210 mg/m3
Cumene (CAS 98-82-8)		500 ppm
	STEL	250 mg/m3
	TWA	100 mg/m3
Ethyl benzene (CAS 100-41-4)		20 ppm
	STEL	884 mg/m3
	TWA	442 mg/m3
methyl isoamyl ketone (CAS 110-12-3)		100 ppm
	TWA	95 mg/m3
Methyl methacrylate (CAS 80-62-6)		20 ppm
	STEL	100 ppm
Xylene (CAS 1330-20-7)	TWA	50 ppm
	STEL	442 mg/m3
		100 ppm
	TWA	221 mg/m3
		50 ppm

**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>
1,2,4-Trimethylbenzene (CAS 95-63-6)	TWA	100 mg/m3
		20 ppm
2-Butoxyethyl acetate (CAS 112-07-2)	STEL	333 mg/m3
		50 ppm
	TWA	133 mg/m3
acetone (CAS 67-64-1)		20 ppm
	TWA	1210 mg/m3
		500 ppm
Cumene (CAS 98-82-8)	STEL	250 mg/m3
		50 ppm
	TWA	100 mg/m3
Ethyl benzene (CAS 100-41-4)		20 ppm
	STEL	884 mg/m3
	TWA	442 mg/m3
methyl isoamyl ketone (CAS 110-12-3)		100 ppm
	TWA	95 mg/m3
Methyl methacrylate (CAS 80-62-6)		20 ppm
	STEL	100 ppm
Xylene (CAS 1330-20-7)	TWA	50 ppm
	STEL	442 mg/m3
	TWA	221 mg/m3
		50 ppm

**Netherlands. OELs (binding)**

<b>Components</b>	<b>Type</b>	<b>Value</b>
1,2,4-Trimethylbenzene (CAS 95-63-6)	STEL	200 mg/m3
	TWA	100 mg/m3



**Netherlands. OELs (binding)**

Components	Type	Value
2-Butoxyethyl acetate (CAS 112-07-2)	STEL	333 mg/m3
	TWA	135 mg/m3
acetone (CAS 67-64-1)	STEL	2420 mg/m3
	TWA	1210 mg/m3
Cumene (CAS 98-82-8)	STEL	250 mg/m3
	TWA	100 mg/m3
Ethyl benzene (CAS 100-41-4)	STEL	430 mg/m3
	TWA	215 mg/m3
methyl isoamyl ketone (CAS 110-12-3)	TWA	233 mg/m3
	TWA	233 mg/m3
Methyl methacrylate (CAS 80-62-6)	STEL	410 mg/m3
	TWA	205 mg/m3
Xylene (CAS 1330-20-7)	STEL	442 mg/m3
	TWA	210 mg/m3

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

Components	Type	Value
1,2,4-Trimethylbenzene (CAS 95-63-6)	TLV	100 mg/m3
		20 ppm
2-Butoxyethyl acetate (CAS 112-07-2)	TLV	65 mg/m3
		10 ppm
acetone (CAS 67-64-1)	TLV	295 mg/m3
		125 ppm
Cumene (CAS 98-82-8)	STEL	250 mg/m3
	TLV	50 ppm
Ethyl benzene (CAS 100-41-4)	TLV	100 mg/m3
		20 ppm
methyl isoamyl ketone (CAS 110-12-3)	TLV	20 mg/m3
		5 ppm
Methyl methacrylate (CAS 80-62-6)	TLV	115 mg/m3
	STEL	25 ppm
n-butyl acetate (CAS 123-86-4)	STEL	400 mg/m3
	TLV	100 ppm
Xylene (CAS 1330-20-7)	TLV	100 mg/m3
		25 ppm
		355 mg/m3
		75 ppm
		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
1,2,4-Trimethylbenzene (CAS 95-63-6)	STEL	170 mg/m3
	TWA	100 mg/m3
2-Butoxyethyl acetate (CAS 112-07-2)	STEL	300 mg/m3
	TWA	100 mg/m3
acetone (CAS 67-64-1)	STEL	1800 mg/m3
	TWA	600 mg/m3
Cumene (CAS 98-82-8)	STEL	250 mg/m3
	TWA	100 mg/m3
Ethyl benzene (CAS 100-41-4)	STEL	400 mg/m3
	TWA	200 mg/m3

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

Components	Type	Value
methyl isoamyl ketone (CAS 110-12-3)	TWA	95 mg/m3
Methyl methacrylate (CAS 80-62-6)	STEL	300 mg/m3
n-butyl acetate (CAS 123-86-4)	TWA	100 mg/m3
	STEL	950 mg/m3
Trimethylbenzene (CAS 25551-13-7)	TWA	200 mg/m3
	STEL	170 mg/m3
Xylene (CAS 1330-20-7)	TWA	100 mg/m3
	TWA	100 mg/m3

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

Components	Type	Value
1,2,4-Trimethylbenzene (CAS 95-63-6)	TWA	100 mg/m3
2-Butoxyethyl acetate (CAS 112-07-2)	STEL	20 ppm
		333 mg/m3
acetone (CAS 67-64-1)	TWA	50 ppm
		133 mg/m3
Cumene (CAS 98-82-8)	STEL	20 ppm
		1210 mg/m3
Ethyl benzene (CAS 100-41-4)	TWA	500 ppm
		250 mg/m3
methyl isoamyl ketone (CAS 110-12-3)	STEL	50 ppm
		100 mg/m3
Xylene (CAS 1330-20-7)	TWA	20 ppm
		884 mg/m3
2-Butoxyethyl acetate (CAS 112-07-2)	TWA	200 ppm
		442 mg/m3
acetone (CAS 67-64-1)	TWA	100 ppm
		95 mg/m3
methyl isoamyl ketone (CAS 110-12-3)	TWA	20 ppm
		442 mg/m3
Xylene (CAS 1330-20-7)	STEL	100 ppm
		221 mg/m3
2-Butoxyethyl acetate (CAS 112-07-2)	TWA	50 ppm
		50 ppm

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

Components	Type	Value
2-Butoxyethyl acetate (CAS 112-07-2)	TWA	20 ppm
acetone (CAS 67-64-1)	STEL	750 ppm
	TWA	500 ppm
Cumene (CAS 98-82-8)	TWA	50 ppm
Ethyl benzene (CAS 100-41-4)	STEL	125 ppm
	TWA	100 ppm
methyl isoamyl ketone (CAS 110-12-3)	TWA	50 ppm
	STEL	100 ppm
Methyl methacrylate (CAS 80-62-6)	TWA	50 ppm
	STEL	200 ppm
n-butyl acetate (CAS 123-86-4)	TWA	150 ppm
	TWA	25 ppm
Trimethylbenzene (CAS 25551-13-7)	STEL	150 ppm
	TWA	100 ppm

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

<b>Components</b>	<b>Type</b>	<b>Value</b>
1,2,4-Trimethylbenzene (CAS 95-63-6)	TWA	100 mg/m3
		20 ppm
2-Butoxyethyl acetate (CAS 112-07-2)	STEL	333 mg/m3
		50 ppm
acetone (CAS 67-64-1)	TWA	133 mg/m3
		20 ppm
Cumene (CAS 98-82-8)	TWA	1210 mg/m3
		500 ppm
Ethyl benzene (CAS 100-41-4)	STEL	150 mg/m3
		30 ppm
methyl isoamyl ketone (CAS 110-12-3)	TWA	100 mg/m3
		20 ppm
Methyl methacrylate (CAS 80-62-6)	STEL	884 mg/m3
		410 mg/m3
n-butyl acetate (CAS 123-86-4)	TWA	100 ppm
		205 mg/m3
Xylene (CAS 1330-20-7)	STEL	50 ppm
		950 mg/m3
	TWA	200 ppm
		715 mg/m3
	STEL	150 ppm
		442 mg/m3
	TWA	100 ppm
		221 mg/m3
	TWA	50 ppm

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

<b>Components</b>	<b>Type</b>	<b>Value</b>
1,2,4-Trimethylbenzene (CAS 95-63-6)	TWA	100 mg/m3
		20 ppm
2-Butoxyethyl acetate (CAS 112-07-2)	STEL	333 mg/m3
		50 ppm
acetone (CAS 67-64-1)	TWA	133 mg/m3
		20 ppm
Cumene (CAS 98-82-8)	TWA	1210 mg/m3
		500 ppm
Ethyl benzene (CAS 100-41-4)	STEL	250 mg/m3
		50 ppm
methyl isoamyl ketone (CAS 110-12-3)	TWA	100 mg/m3
		20 ppm
Methyl methacrylate (CAS 80-62-6)	STEL	884 mg/m3
		100 ppm
	TWA	200 ppm
		442 mg/m3
	TWA	100 ppm
		95 mg/m3
	STEL	20 ppm
		100 ppm
	TWA	50 ppm

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

Components	Type	Value
n-butyl acetate (CAS 123-86-4)	STEL	700 mg/m3
		150 ppm
Xylene (CAS 1330-20-7)	TWA	500 mg/m3
		100 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
1,2,4-Trimethylbenzene (CAS 95-63-6)	TWA	100 mg/m3
		20 ppm
2-Butoxyethyl acetate (CAS 112-07-2)	TWA	133 mg/m3
		20 ppm
acetone (CAS 67-64-1)	TWA	1210 mg/m3
		500 ppm
Cumene (CAS 98-82-8)	TWA	100 mg/m3
		20 ppm
Ethyl benzene (CAS 100-41-4)	TWA	442 mg/m3
		100 ppm
light aromatic solvent naphtha (CAS 64742-95-6)	TWA	100 mg/m3
		20 ppm
methyl isoamyl ketone (CAS 110-12-3)	TWA	95 mg/m3
		20 ppm
Methyl methacrylate (CAS 80-62-6)	TWA	210 mg/m3
		50 ppm
n-butyl acetate (CAS 123-86-4)	TWA	480 mg/m3
		100 ppm
Xylene (CAS 1330-20-7)	TWA	221 mg/m3
		50 ppm

**Spain. Occupational Exposure Limits**

Components	Type	Value
1,2,4-Trimethylbenzene (CAS 95-63-6)	TWA	100 mg/m3
		20 ppm
2-Butoxyethyl acetate (CAS 112-07-2)	STEL	333 mg/m3
	TWA	50 ppm
acetone (CAS 67-64-1)	TWA	133 mg/m3
		20 ppm
Cumene (CAS 98-82-8)	TWA	1210 mg/m3
		500 ppm
Ethyl benzene (CAS 100-41-4)	STEL	250 mg/m3
	TWA	50 ppm
methyl isoamyl ketone (CAS 110-12-3)	TWA	100 mg/m3
		20 ppm
	STEL	884 mg/m3
		200 ppm
	TWA	441 mg/m3
		100 ppm
	TWA	95 mg/m3
		20 ppm

**Spain. Occupational Exposure Limits Components**

Type	Value
Methyl methacrylate (CAS 80-62-6)	TWA 100 mg/m3 50 ppm
n-butyl acetate (CAS 123-86-4)	STEL 965 mg/m3 200 ppm
Xylene (CAS 1330-20-7)	TWA 724 mg/m3 150 ppm
	STEL 442 mg/m3 100 ppm
	TWA 221 mg/m3 50 ppm

**Sweden. Occupational Exposure Limit Values Components**

Type	Value
1,2,4-Trimethylbenzene (CAS 95-63-6)	STEL 170 mg/m3 35 ppm
	TWA 120 mg/m3 25 ppm
2-Butoxyethyl acetate (CAS 112-07-2)	STEL 140 mg/m3 20 ppm
	TWA 70 mg/m3 10 ppm
acetone (CAS 67-64-1)	STEL 1200 mg/m3 500 ppm
	TWA 600 mg/m3 250 ppm
Cumene (CAS 98-82-8)	STEL 170 mg/m3 35 ppm
	TWA 120 mg/m3 25 ppm
Ethyl benzene (CAS 100-41-4)	STEL 450 mg/m3 100 ppm
	TWA 200 mg/m3 50 ppm
methyl isoamyl ketone (CAS 110-12-3)	STEL 250 mg/m3 50 ppm
	TWA 120 mg/m3 25 ppm
Methyl methacrylate (CAS 80-62-6)	STEL 600 mg/m3 150 ppm
	TWA 200 mg/m3 50 ppm
n-butyl acetate (CAS 123-86-4)	STEL 700 mg/m3 150 ppm
	TWA 500 mg/m3 100 ppm
Trimethylbenzene (CAS 25551-13-7)	STEL 170 mg/m3 35 ppm
	TWA 120 mg/m3 25 ppm
Xylene (CAS 1330-20-7)	STEL 442 mg/m3 100 ppm
	TWA 221 mg/m3 50 ppm

**Switzerland. SUVA Grenzwerte am Arbeitsplatz**

<b>Components</b>	<b>Type</b>	<b>Value</b>
1,2,4-Trimethylbenzene (CAS 95-63-6)	STEL	200 mg/m3 40 ppm
	TWA	100 mg/m3 20 ppm
2-Butoxyethyl acetate (CAS 112-07-2)	STEL	132 mg/m3 20 ppm
	TWA	66 mg/m3 10 ppm
acetone (CAS 67-64-1)	STEL	2400 mg/m3 1000 ppm
	TWA	1200 mg/m3 500 ppm
Cumene (CAS 98-82-8)	STEL	400 mg/m3 80 ppm
	TWA	100 mg/m3 20 ppm
Ethyl benzene (CAS 100-41-4)	STEL	220 mg/m3 50 ppm
	TWA	220 mg/m3 50 ppm
methyl isoamyl ketone (CAS 110-12-3)	STEL	188 mg/m3 40 ppm
	TWA	94 mg/m3 20 ppm
Methyl methacrylate (CAS 80-62-6)	STEL	420 mg/m3 100 ppm
	TWA	210 mg/m3 50 ppm
n-butyl acetate (CAS 123-86-4)	STEL	960 mg/m3 200 ppm
	TWA	480 mg/m3 100 ppm
Trimethylbenzene (CAS 25551-13-7)	STEL	200 mg/m3 40 ppm
	TWA	100 mg/m3 20 ppm
Xylene (CAS 1330-20-7)	STEL	870 mg/m3 200 ppm
	TWA	435 mg/m3 100 ppm
<b>UK. EH40 Workplace Exposure Limits (WELs)</b>		
<b>Components</b>	<b>Type</b>	<b>Value</b>
1,2,4-Trimethylbenzene (CAS 95-63-6)	TWA	125 mg/m3 25 ppm
	STEL	332 mg/m3 50 ppm
2-Butoxyethyl acetate (CAS 112-07-2)	STEL	332 mg/m3 50 ppm
	TWA	133 mg/m3 20 ppm
acetone (CAS 67-64-1)	STEL	3620 mg/m3 1500 ppm
	TWA	1210 mg/m3 500 ppm
Cumene (CAS 98-82-8)	STEL	250 mg/m3 50 ppm

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

<b>Components</b>	<b>Type</b>	<b>Value</b>
	TWA	125 mg/m3
		25 ppm
Ethyl benzene (CAS 100-41-4)	STEL	552 mg/m3
		125 ppm
	TWA	441 mg/m3
		100 ppm
methyl isoamyl ketone (CAS 110-12-3)	STEL	475 mg/m3
		100 ppm
	TWA	95 mg/m3
		20 ppm
Methyl methacrylate (CAS 80-62-6)	STEL	416 mg/m3
		100 ppm
	TWA	208 mg/m3
		50 ppm
n-butyl acetate (CAS 123-86-4)	STEL	966 mg/m3
		200 ppm
	TWA	724 mg/m3
		150 ppm
Trimethylbenzene (CAS 25551-13-7)	TWA	125 mg/m3
		25 ppm
Xylene (CAS 1330-20-7)	STEL	441 mg/m3
		100 ppm
	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**

<b>Components</b>	<b>Type</b>	<b>Value</b>
1,2,4-Trimethylbenzene (CAS 95-63-6)	TWA	100 mg/m3
		20 ppm
2-Butoxyethyl acetate (CAS 112-07-2)	STEL	333 mg/m3
		50 ppm
	TWA	133 mg/m3
		20 ppm
acetone (CAS 67-64-1)	TWA	1210 mg/m3
		500 ppm
Cumene (CAS 98-82-8)	STEL	250 mg/m3
		50 ppm
	TWA	100 mg/m3
		20 ppm
Ethyl benzene (CAS 100-41-4)	STEL	884 mg/m3
		200 ppm
	TWA	442 mg/m3
		100 ppm
methyl isoamyl ketone (CAS 110-12-3)	TWA	95 mg/m3
		20 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.**

Components	Value	Determinant	Specimen	Sampling Time
2-Butoxyethyl acetate (CAS 112-07-2)	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	*
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**

Components	Value	Determinant	Specimen	Sampling Time
Ethyl benzene (CAS 100-41-4)	5,2 mmol/l	Mandelic acid	Urine	*
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
acetone (CAS 67-64-1)	100 mg/l	Acétone	Urine	*
Ethyl benzene (CAS 100-41-4)	1500 mg/g	Acide mandélique	Creatinine in urine	*
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
1,2,4-Trimethylbenzene (CAS 95-63-6)	400 mg/g	Dimethylbenzoesäuren (Summe aller Isomeren nach Hydrolyse)	Creatinine in urine	*
2-Butoxyethyl acetate (CAS 112-07-2)	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	*
Trimethylbenzene (CAS 25551-13-7)	400 mg/g	Dimethylbenzoesäuren (Summe aller Isomeren nach Hydrolyse)	Creatinine in 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	*



**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
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	*
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
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	*
		Ácidos metilhipúricos		
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-Butoxyethyl acetate (CAS 112-07-2)	200 mg/l	Gesamt-Butoxyessigsäure	Urine	*
	100 mg/l	Butoxyessigsäure	Urine	*
acetone (CAS 67-64-1)	80 mg/l	Aceton	Urine	*
Cumene (CAS 98-82-8)	50 mg/g	2-Phenyl-2-propanol	Creatinine in urine	*
Ethyl benzene (CAS 100-41-4)	800 mg/l	Mandelsäure plus Phenylglyoxylsäure	Urine	*
		Methyl-Hippursäure		
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
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-Butoxyethyl acetate (CAS 112-07-2) Can be absorbed through the skin.

Cumene (CAS 98-82-8)  
Ethyl benzene (CAS 100-41-4)  
Xylene (CAS 1330-20-7)

Can be absorbed through the skin.  
Can be absorbed through the skin.  
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. Provide eyewash station. Eye wash fountain and emergency showers are recommended.

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

#### General information

Use personal protective equipment as required. 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).

#### Skin protection

##### - Hand protection

Wear protective gloves.

##### - Other

Wear suitable protective 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. 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

##### Physical state

Liquid.

##### Form

Liquid.

##### Color

Clear colorless or nearly colorless

#### Odor

Solvent.

#### Odor threshold

Not available.

#### pH

Not available.

#### Melting point/freezing point

-138,46 °F (-94,7 °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 (%)

1,4 % estimated

##### Flammability limit - upper (%)

12,8 % estimated

#### Vapor pressure

159,81 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

375 °F (190,56 °C) estimated

#### Decomposition temperature

Not available.

#### Viscosity

Not available.

<b>Explosive properties</b>	Not available.
<b>Oxidizing properties</b>	Not available.
<b>9.2. Other information</b>	
<b>Density</b>	7,62 lbs/gal
<b>Percent volatile</b>	72,12 %
<b>Specific gravity</b>	0,92
<b>VOC</b>	2,8 lbs/gal Material 4,1 lbs/gal Regulatory 329 g/l Material 493 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. Nitrates. Halogens.
<b>10.6. Hazardous decomposition products</b>	No hazardous decomposition products are known.

## SECTION 11: Toxicological information

**General information** Occupational exposure to the substance or mixture may cause adverse effects.

### Information on likely routes of exposure

<b>Inhalation</b>	Harmful if inhaled. May cause drowsiness and dizziness. Headache. Nausea, vomiting. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
<b>Skin contact</b>	May cause an allergic skin reaction.
<b>Eye contact</b>	Causes serious eye irritation.
<b>Ingestion</b>	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.

**Symptoms** Headache. May cause drowsiness and dizziness. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

### 11.1. Information on toxicological effects

**Acute toxicity** Harmful if inhaled. Narcotic effects.

Components	Species	Test Results
1,2,4-Trimethylbenzene (CAS 95-63-6)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 3160 mg/kg
<b>Inhalation</b>		
LC50	Rat	> 2000 ppm, 48 Hours
<b>Oral</b>		
LD50	Rat	6 g/kg
2-Butoxyethyl acetate (CAS 112-07-2)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	1500 mg/kg
<b>Oral</b>		
LD50	Rat	2400 mg/kg
acetone (CAS 67-64-1)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	20000 mg/kg 20 ml/kg

Components	Species	Test Results
<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
Cumene (CAS 98-82-8)		
<b>Acute</b>		
<b>Inhalation</b>		
LC50	Mouse	2000 ppm, 7 Hours 24,7 mg/l, 2 Hours
	Rat	8000 ppm, 4 Hours
<b>Oral</b>		
LD50	Rat	1400 mg/kg
Ethyl benzene (CAS 100-41-4)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	17800 mg/kg
<b>Oral</b>		
LD50	Rat	3500 mg/kg
methyl isoamyl ketone (CAS 110-12-3)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	10 ml/kg
<b>Oral</b>		
LD50	Mouse	3200 mg/kg
	Rat	2542 mg/kg
Methyl methacrylate (CAS 80-62-6)		
<b>Acute</b>		
<b>Inhalation</b>		
LC50	Mouse	18,5 mg/l, 2 Hours
	Rat	3750 ppm, 8 Hours
<b>Oral</b>		
LD50	Mouse	5,5 ml/kg
	Rabbit	6000 mg/kg
	Rat	7800 mg/kg
n-butyl acetate (CAS 123-86-4)		
<b>Acute</b>		
<b>Inhalation</b>		
LC50	Wistar rat	160 mg/l, 4 Hours
<b>Oral</b>		
LD50	Rat	14000 mg/kg
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

Components	Species	Test Results
	Rat	3523 - 8600 mg/kg

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

<b>Skin corrosion/irritation</b>	Due to partial or complete lack of data the classification is not possible.
<b>Serious eye damage/eye irritation</b>	Causes serious eye irritation.
<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>	May cause genetic defects.
<b>Carcinogenicity</b>	May cause cancer.
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>	
Cumene (CAS 98-82-8)	2B Possibly carcinogenic to humans.
Ethyl benzene (CAS 100-41-4)	2B Possibly carcinogenic to humans.
Methyl methacrylate (CAS 80-62-6)	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.
<b>Specific target organ toxicity - single exposure</b>	May cause drowsiness and dizziness.
<b>Specific target organ toxicity - repeated exposure</b>	Due to partial or complete lack of data the classification is not possible.
<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>	May cause allergic respiratory and skin reactions.

## SECTION 12: Ecological information

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

Components	Species	Test Results
1,2,4-Trimethylbenzene (CAS 95-63-6)		
<b>Aquatic</b>		
Fish	LC50	Fathead minnow (Pimephales promelas) 7,19 - 8,28 mg/l, 96 hours
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
Cumene (CAS 98-82-8)		
<b>Aquatic</b>		
Crustacea	EC50	Brine shrimp (Artemia sp.) 3,55 - 11,29 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss) 2,7 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
methyl isoamyl ketone (CAS 110-12-3)		
<b>Aquatic</b>		
Fish	LC50	Fathead minnow (Pimephales promelas) 159 mg/l, 96 hours
Methyl methacrylate (CAS 80-62-6)		
<b>Aquatic</b>		
Fish	LC50	Fathead minnow (Pimephales promelas) 136,3 - 183,4 mg/l, 96 hours
n-butyl acetate (CAS 123-86-4)		
<b>Aquatic</b>		
Fish	LC50	Fathead minnow (Pimephales promelas) 17 - 19 mg/l, 96 hours

Components	Species	Test Results
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)**

acetone	-0,24
Cumene	3,66
Ethyl benzene	3,15
methyl isoamyl ketone	1,88
Methyl methacrylate	1,38
n-butyl acetate	1,78
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**

**Residual waste** 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).

**Contaminated packaging** 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.

**EU waste code** The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Disposal methods/information** 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.

**Special precautions** Dispose in accordance with all applicable regulations.

## SECTION 14: Transport information

**ADR**

**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** -

**Label(s)** 3

**Hazard No. (ADR)** 33

**Tunnel restriction code** D/E

**14.4. Packing group** II

**14.5. Environmental hazards** No.

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

**RID**

**14.1. UN number** UN1263

**14.2. UN proper shipping name** Paint

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

**Class** 3

**Subsidiary risk** -

Label(s)	3
14.4. Packing group	II
14.5. Environmental hazards	No.
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

#### ADN

14.1. UN number	UN1263
14.2. UN proper shipping name	Paint
14.3. Transport hazard class(es)	
Class	3
Subsidiary risk	-
Label(s)	3
14.4. Packing group	II
14.5. Environmental hazards	No.
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

#### IATA

14.1. UN number	UN1263
14.2. UN proper shipping name	Paint
14.3. Transport hazard class(es)	
Class	3
Subsidiary risk	-
14.4. Packing group	II
14.5. Environmental hazards	No.
ERG Code	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
14.3. Transport hazard class(es)	
Class	3
Subsidiary risk	-
14.4. Packing group	II
14.5. Environmental hazards	
Marine pollutant	No.
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



## 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**

light aromatic solvent naphtha (CAS 64742-95-6)

## Restrictions on use

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

acetone (CAS 67-64-1)

Ethyl benzene (CAS 100-41-4)

Methyl methacrylate (CAS 80-62-6)

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

light aromatic solvent naphtha (CAS 64742-95-6)

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

light aromatic solvent naphtha (CAS 64742-95-6)

## Other EU regulations

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

1,2,4-Trimethylbenzene (CAS 95-63-6)

acetone (CAS 67-64-1)

Cumene (CAS 98-82-8)

Ethyl benzene (CAS 100-41-4)

methyl isoamyl ketone (CAS 110-12-3)

Methyl methacrylate (CAS 80-62-6)

n-butyl acetate (CAS 123-86-4)

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**

1,2,4-Trimethylbenzene (CAS 95-63-6)

2-Butoxyethyl acetate (CAS 112-07-2)

acetone (CAS 67-64-1)

Cumene (CAS 98-82-8)

Ethyl benzene (CAS 100-41-4)

light aromatic solvent naphtha (CAS 64742-95-6)

methyl isoamyl ketone (CAS 110-12-3)

Methyl methacrylate (CAS 80-62-6)

n-butyl acetate (CAS 123-86-4)

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)

light aromatic solvent naphtha (CAS 64742-95-6)

Methyl methacrylate (CAS 80-62-6)

## 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.  
R36 Irritating to eyes.  
R36/37/38 Irritating to eyes, respiratory system and skin.  
R37 Irritating to respiratory system.  
R37/38 Irritating to respiratory system and skin.  
R38 Irritating to skin.  
R43 May cause sensitization by skin contact.  
R45 May cause cancer.  
R46 May cause heritable genetic damage.  
R51/53 Toxic 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 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.  
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.  
H340 May cause genetic defects.  
H350 May cause cancer.  
H351 Suspected of causing cancer.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H411 Toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.

**Revision information** None.

**Training information** Follow training instructions when handling this material.

**Disclaimer** The information in the sheet was written based on the best knowledge and experience currently available. THE INFORMATION CONTAINED HEREIN IS BASED ON DATA BELIEVED TO BE RELIABLE AND THE MANUFACTURER DISCLAIMS ANY LIABILITY INCURRED FROM THE USE OR RELIANCE UPON THE SAME. THE INFORMATION GIVEN IS DESIGNED ONLY AS A GUIDANCE FOR SAFE HANDLING, USE, PROCESSING, STORAGE, TRANSPORTATION, DISPOSAL AND RELEASE AND IS NOT TO BE CONSIDERED A WARRANTY OR QUALITY SPECIFICATION. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This safety information is not a license to use this material as claimed by any patents of third parties. The user alone must finally determine whether a contemplated use of this material will infringe any such patents, and for obtaining any required licenses.